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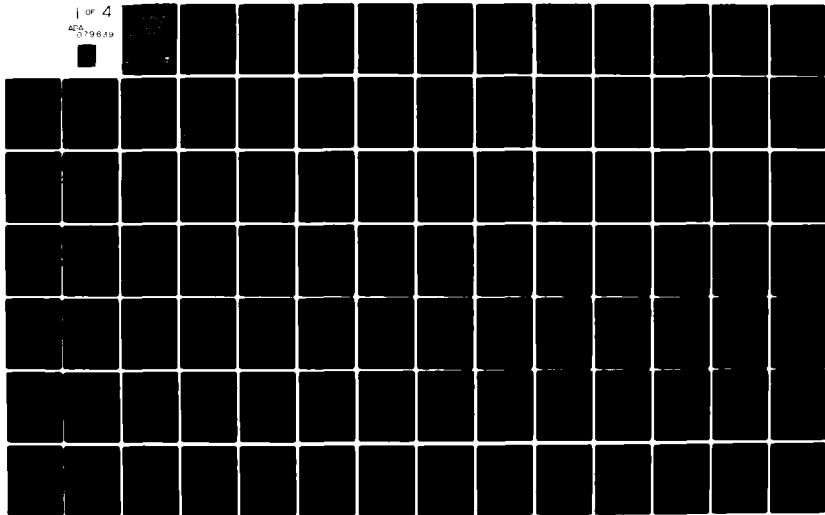
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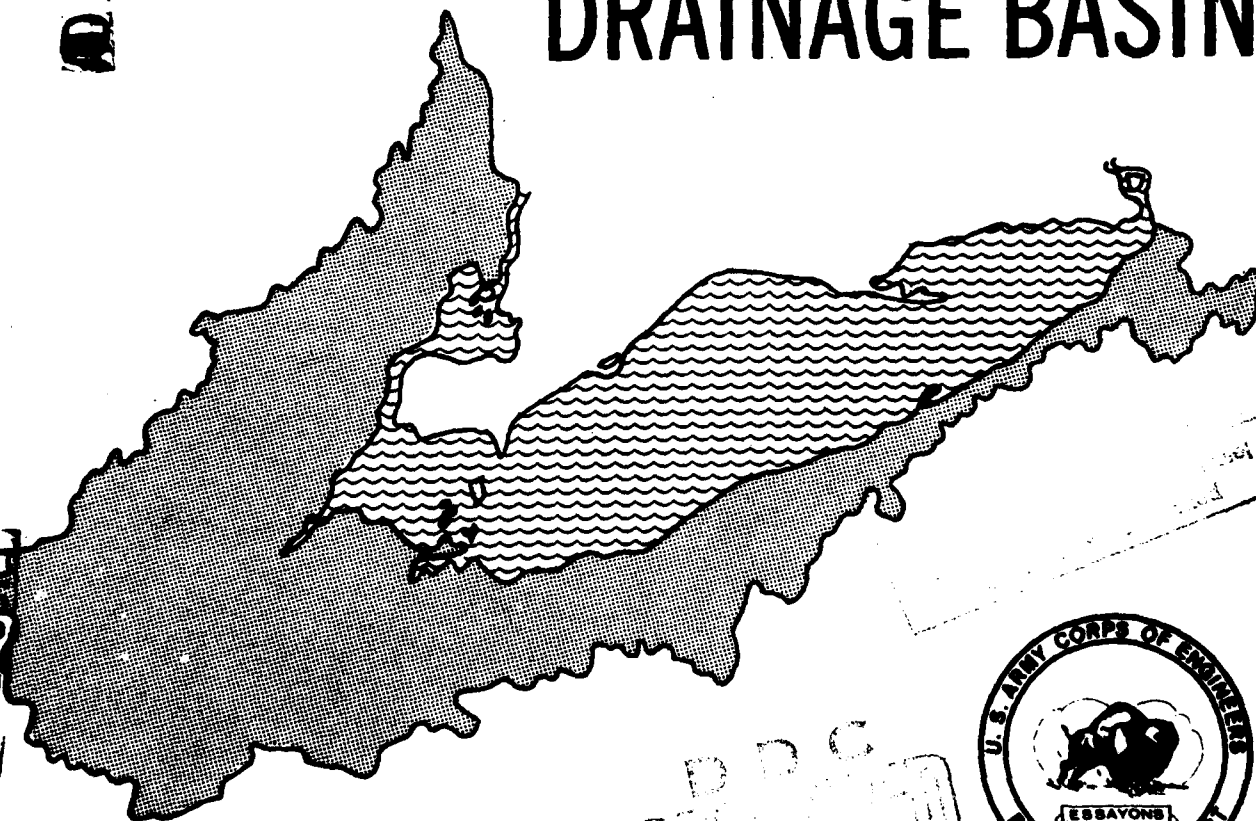
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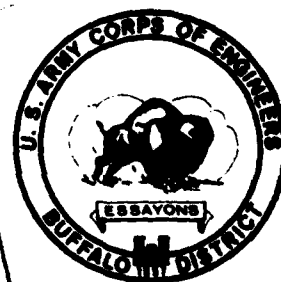
LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN

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LAKE ERIE WASTEWATER
MANAGEMENT STUDY
U.S. ARMY ENGINEER DISTRICT, BUFFALO

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Previous studies have shown that diffuse sources of phosphorus must be managed if the trophic status of Lake Erie is to be reduced (LEWMS, 1975, 1979). Agriculture, in particular, cropland, is a predominant land use and contributor of diffuse source sediment and associated phosphorus to Lake Erie. This paper examines the values of potential gross erosion for six land management alternatives with special interest in present cropping practices, popular and		

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common practices, and other alternatives which show promise for reducing sediment and phosphorus inputs.

This report ~~will~~² first describe the land management alternatives under consideration followed by the method employed in computing values of potential gross erosion. Finally, the potential gross erosion values of several watersheds will be examined.

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LAND MANAGEMENT ALTERNATIVES
IN THE LAKE ERIE DRAINAGE BASIN

March 1979

Lake Erie Wastewater Management Study
U. S. Army Engineer District, Buffalo
1776 Niagara Street
Buffalo, NY 14207

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LIST OF POTENTIAL CROSS EROSION ANALYSES

Major Watersheds

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Black River at Fargo, MI	2	Sanilac, MI	13
		Lapeer, MI	14
		St. Clair, MI	15
		All in Basin	16
Mill Creek at Avoca, MI	5	Sanilac, MI	17
		Lapeer, MI	18
		St. Clair, MI	19
		All in Basin	20
Belle River at Memphis, MI	1	Lapeer, MI	21
		St. Clair, MI	22
		Macomb, MI	23
		All in Basin	24
Clinton River at Mt. Clemens, MI	3	Lapeer, MI	25
		St. Clair, MI	26
		Oakland, MI	27
		Macomb, MI	28
		All in Basin	29
Sashabaw Creek at Drayton, MI	8	Oakland, MI*	30
Rouge River at W. Jefferson Bridge, MI 7		Oakland, MI	31
		Washtenaw, MI	32
		Wayne, MI	33
		All in Basin	34

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Huron River at S. Metro Parkway, MI	4	Ingham, MI	35
		Livingston, MI	36
		Oakland, MI	37
		Washtenaw, MI	38
		Wayne, MI	39
		All in Basin	40
Raisin River at Monroe, MI	6	Monroe, MI	41
		Jackson, MI	42
		Washtenaw, MI	43
		Lenawee, MI	44
		Fulton, OH	45
		All in Basin	46
Maumee River at Waterville, OH	9	Seneca, OH	47
		Wood, OH	48
		Lucas, OH	49
		Hancock, OH	50
		Wyandot, OH	51
		Hardin, OH	52
		Henry, OH	53
		Hillsdale, MI	54
		Lenawee, MI	55
		Steuben, IN	56
		Williams, OH	57
		Fulton, OH	58
		Nobel, IN	59
		Dekalb, IN	60
		Defiance, OH	61
		Allen, IN	62
		Paulding, OH	63
		Putnam, OH	64
		Wells, IN	65
		Adams, IN	66
		Van Wert, OH	67
		Allen, OH	68
		Mercer, OH	69

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Maumee River at Waterville, OH		Auglaize, OH	70
		Shelby, OH	71
		All in Basin	72
Portage River at Woodville, OH	10	Seneca, OH	73
		Sandusky, OH	74
		Wood, OH	75
		Hancock, OH	76
		All in Basin	77
Sandusky River at Fremont, OH	12	Crawford, OH	78
		Seneca, OH	79
		Huron, OH	80
		Sandusky, OH	81
		Hancock, OH	82
		Wyandot, OH	83
		Hardin, OH	84
		Marion, OH	85
		Richland, OH	86
		All in Basin	87
Sandusky River at Mexico, OH	13	Crawford, OH	88
		Seneca, OH	89
		Wyandot, OH	90
		Hardin, OH	91
		Marion, OH	92
		Richland, OH	93
		All in Basin	94
Sandusky River at Upper Sandusky, OH	14	Crawford, OH	95
		Wyandot, OH	96
		Marion, OH	97
		Richland, OH	98
		All in Basin	99

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Sandusky River at Bucyrus, OH	15	Crawford, OH	100
		Richland, OH	101
		All in Basin	102
Tymochtee Creek at Crawford, OH	16	Wyandot, OH	103
		Hardin, OH	104
		Marion, OH	105
		All in Basin	106
Broken Sword Creek at Nevada, OH	18	Crawford, OH	107
		Wyandot, OH	108
		All in Basin	109
W. Br. Wolf Creek at Bettsville, OH	19	Seneca, OH	110
		Hancock, OH	111
		All in Basin	112
E. Br. Wolf Creek near Bettsville, OH	20	Seneca, OH*	113
Honey Creek at Mouth		Crawford, OH	114
		Seneca, OH	115
		Huron, OH	116
		Wyandot, OH	117
		All in Basin	118
Honey Creek at Rt. 231	22	Crawford, OH	119
		Seneca, OH	120
		Huron, OH	121
		Wyandot, OH	122
		All in Basin	123
Honey Creek at Melmore, OH	17	Crawford, OH	124
		Seneca, OH	125
		Huron, OH	126
		All in Basin	127

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Honey Creek upstream from Silver Creek	24	Crawford, OH	128
		Seneca, OH	129
		Huron, OH	130
		All in Basin	131
Honey Creek upstream from Aichholz Ditch	29	Crawford, OH	132
		Seneca, OH	133
		Huron, OH	134
		All in Basin	135
Honey Creek at Rt. 4 near Attica, OH	30	Crawford, OH	136
		Seneca, OH	137
		Huron, OH	138
		All in Basin	139
Honey Creek at Weis Road	32	Crawford, OH	140
		Seneca, OH	141
		Huron, OH	142
		All in Basin	143
Honey Creek Tributary at Weis Road	31	Crawford, OH	144
		Huron, OH	145
		All in Basin	146
Honey Creek at Rt. 103 near Waynesburg, OH	35	Crawford, OH*	147
Honey Creek Tributary below Mohawk Lake	21	Seneca, OH*	148
Honey Creek Tributary- Buckeye Creek at Rt. 67	23	Crawford, OH	149
		Seneca, OH	150
		Wyandot, OH	151
		All in Basin	152
Honey Creek Tributary- Silver Creek at Mouth	25	Crawford, OH	153
		Seneca, OH	154
		All in Basin	155

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Honey Creek Tributary- Silver Creek Downs- stream from Marsh	26	Crawford, OH Seneca, OH All in Basin	156 157 158
Honey Creek Tributary- Silver Creek Upstream from Marsh	27	Crawford, OH Seneca, OH All in Basin	159 160 161
Honey Creek Tributary- Aichholz Ditch at Co. Rd. 49	28	Crawford, OH Seneca, OH All in Basin	162 163 164
Honey Creek Tributary- Broken Knife Creek at Co. Line Rd.	33	Crawford, OH Seneca, OH Huron, OH All in Basin	165 166 167 168
Honey Creek Tributary at Scott Road	34	Crawford, OH*	169
Honey Creek Tributary- Ackerman Ditch	66	Crawford, OH*	170
Rock Creek East at Co. Rd. 16	72	Seneca, OH*	171
Rock Creek West at Co. Rd. 16	71	Seneca, OH*	172
Huron River at Milan, OH	11	Crawford, OH Seneca, OH Huron, OH Erie, OH Richland, OH All in Basin	173 174 175 176 177 178

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Huron River Tributary- Norwalk Creek near Norwalk, OH	56	Huron, OH*	179
Vermilion River near Vermilion, OH	36	Huron, OH	180
		Erie, OH	181
		Richland, OH	182
		Ashland, OH	183
		All in Basin	184
Black River at Elyria, OH	37	Huron, OH	185
		Ashland, OH	186
		Medina, OH	187
		Cuyahoga, OH	188
		Lorain, OH	189
		All in Basin	190
Plum Creek at Oberlin, OH	54	Lorain, OH*	191
Neff Run at Litchfield	55	Medina, OH	192
		Lorain, OH	193
		All in Basin	194
Rocky River at Berea, OH	38	Medina, OH	195
		Cuyahoga, OH	196
		Summit, OH	197
		Lorain, OH	198
		All in Basin	199
Cuyahoga River at Independence, OH	39	Medina, OH	200
		Cuyahoga, OH	201
		Summit, OH	202
		Geauga, OH	203
		Portage, OH	204
		Stark, OH	205
		All in Basin	206

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Cuyahoga River at Old Portage, OH	58	Summit, OH	207
		Geauga, OH	208
		Portage, OH	209
		All in Basin	210
Cuyahoga River at Peninsula, OH	62	Medina, OH	211
		Cuyahoga, OH	212
		Summit, OH	213
		Geauga, OH	214
		Portage, OH	215
		All in Basin	216
Cuyahoga River at Hiram Rapids, OH	69	Geauga, OH	217
		Portage, OH	218
		All in Basin	219
Little Cuyahoga River at Akron, OH	68	Summit, OH	220
		Portage, OH	221
		All in Basin	222
Mud Brook at Akron, OH	59	Summit, OH*	223
Yellow Creek at Botzum, OH	60	Medina, OH	224
		Summit, OH	225
		All in Basin	226
Furnace Run at Everett, OH	61	Cuyahoga, OH	227
		Summit, OH	228
		All in Basin	229
Brandywine Creek at Jaite, OH	63	Cuyahoga, OH	230
		Summit, OH	231
		All in Basin	232
Chippewa Creek at Brecksville, OH	64	Cuyahoga, OH*	233

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Tinker's Creek at Bedford, OH	65	Cuyahoga, OH	234
		Summit, OH	235
		Geauga, OH	236
		Portage, OH	237
		All in Basin	238
Big Creek at Cleveland, OH	53	Cuyahoga, OH*	239
Euclid Creek at Euclid, OH	70	Cuyahoga, OH	240
		Lake, OH	241
		All in Basin	242
Chagrin River at Willoughby, OH	40	Cuyahoga, OH	243
		Lake, OH	244
		Geauga, OH	245
		Portage, OH	246
		All in Basin	247
Grand River at Painesville, OH	41	Lake, OH	248
		Geauga, OH	249
		Portage, OH	250
		Ashtabula, OH	251
		All in Basin	252
Ashtabula River at Ashtabula, OH	42	Ashtabula, OH	253
		Erie, OH	254
		Crawford, PA	255
		All in Basin	256
Hubbard Run at Ashtabula, OH	50	Ashtabula, OH*	257
Conneaut Creek at Conneaut, OH	43	Ashtabula, OH	258
		Erie PA	259
		Crawford, PA	260
		All in Basin	261
*Basin Total			

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

<u>Sampling Station</u>	<u>Map Code</u>	<u>County</u>	<u>Page</u>
Raccoon Creek near W. Springfield, PA	48	Erie, PA*	262
Mill Creek near Erie, PA	49	Erie, PA*	263
Cattaraugus Creek at Gowanda, NY	44	Erie, NY	264
		Cattaraugus, NY	265
		Wyoming, NY	266
		Allegany, NY	267
		All in Basin	268
S. Br. Cattaraugus Creek at Otto, NY	45	Cattaraugus, NY*	269
Delaware Creek near Angola, NY	46	Erie, NY*	270
Eighteen Mile Creek at N. Boston, NY	47	Erie, NY*	271

Direct Drainage Areas

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Monroe, MI	278
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Lucas, OH	280
Fulton, OH	281
Henry, OH	282
Wood, OH	283
Ottawa, OH	284
Sandusky, OH	285
Seneca, OH	286
Erie, OH	287
Huron, OH	288

*Basin Total

LIST OF POTENTIAL GROSS EROSION ANALYSES (Cont'd)

Direct Drainage Areas

<u>County</u>	<u>Page</u>
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ABSTRACT

The Universal Soil Loss Equation was used to compute values of potential gross erosion associated with six different land management alternatives in the U. S. portion of the Lake Erie Drainage Basin. The six cropland scenarios are:

1. Existing conditions
2. Spring plowing
3. Fall plowing
4. Winter cover crop
5. Maximum reduction tillage and
6. Reduced tillage-chisel plowing

The Appendix contains the potential gross erosion values for each major watershed in the U. S. portion of the Lake Erie Drainage Basin. Three of these watersheds, Maumee River, Honey Creek, and Cattaraugus Creek are further discussed within the text as examples of the kinds of observations which may be drawn from the scenario results.

Of the six land management alternatives listed above, maximum reduction tillage and reduced tillage-chisel plowing are most effective in reducing potential gross erosion. Spring plowing and winter cover crop offer little reduction while the fall plowing scenario actually increases potential gross erosion over the present existing conditions.

INTRODUCTION

Previous studies have shown that diffuse sources of phosphorus must be managed if the trophic status of Lake Erie is to be reduced (LEWMS, 1975, 1979). Agriculture, in particular, cropland, is a predominant land use and contributor of diffuse source sediment and associated phosphorus to Lake Erie. This paper examines the values of potential gross erosion for six land management alternatives with special interest in present cropping practices, popular and common practices, and other alternatives which show promise for reducing sediment and phosphorus inputs.

This report will first describe the land management alternatives under consideration followed by the method employed in computing values of potential gross erosion. Finally, the potential gross erosion values of several watersheds will be examined.

LAND MANAGEMENT ALTERNATIVES

The following land management scenarios have been chosen for comparison of potential gross erosion values;

1. Existing practices
2. Spring plowing
3. Fall plowing
4. Winter cover crop
5. Maximum reduction tillage
6. Reduced tillage-chisel plowing

Existing Practices

Potential gross erosion was computed for cropland under present farming practices to show whether other alternatives would result in increased or decreased erosion values. Existing farming practices include various combinations of the alternatives listed above, however, fall moldboard plowing predominates.

Spring Plowing

The spring plowing scenario assumes all cropland would be moldboard plowed in the spring. Cropland which presently is not plowed in the spring (e.g., fall plowed, no-till and reduced tillage) would undergo spring plowing.

Fall Plowing

Under this scenario all cropland would be moldboard plowed after fall harvest. As stated above, most cropland is presently fall plowed. This alternative proposes to change all spring plowing, winter cover crop, no-till, and reduced tillage practices now occurring in the Lake Erie Drainage Basin to fall moldboard plowing. Fall moldboard plowing can have a tremendous influence on soil losses since mineral soil is exposed to the erosive forces of raindrop impact and surface runoff. Some of the highest values of potential gross erosion can be expected with this common farming practice.

Winter Cover Crop

Often proposed as an erosion control measure, winter cover crops are initiated after harvest to provide protection from snowmelt runoff and early spring rains. This alternative proposes establishment of winter cover crops with other present farming methods remaining unchanged.

Maximum Reduction Tillage

Maximum reduction tillage refers to that tillage practice which most effectively reduces erosion while also causing little or no reduction in net farm income. No-till is the most effective erosion control tillage practice included in the maximum reduction tillage scenario. As will be discussed later, no-till produces excellent crop yields on soils with good drainage but should not be used on poorly drained soils. Reduced tillage-chisel plowing is not quite as effective as no-till for reducing erosion but it is more profitable on somewhat poorly drained soils. For soils which are very poorly drained, conventional moldboard plowing is recommended. In conclusion, under the maximum reduced tillage alternative, no-till, reduced tillage-chisel plowing, or moldboard plowing is prescribed depending on soil drainage characteristics. The practice which provides the greatest erosion control with the least negative profit impact is prescribed.

Reduced Tillage-Chisel Plowing

The reduced tillage-chisel plowing scenario is similar to the maximum reduction tillage scenario except that application of no-till to suitable soils is eliminated. Reduced tillage-chisel plowing is the crop management practice applied to those soils which exhibit suitable drainage and crop response. Conventional moldboard plowing is still assumed for poorly drained soils which do not respond well to reduced tillage-chisel plowing.

METHODS

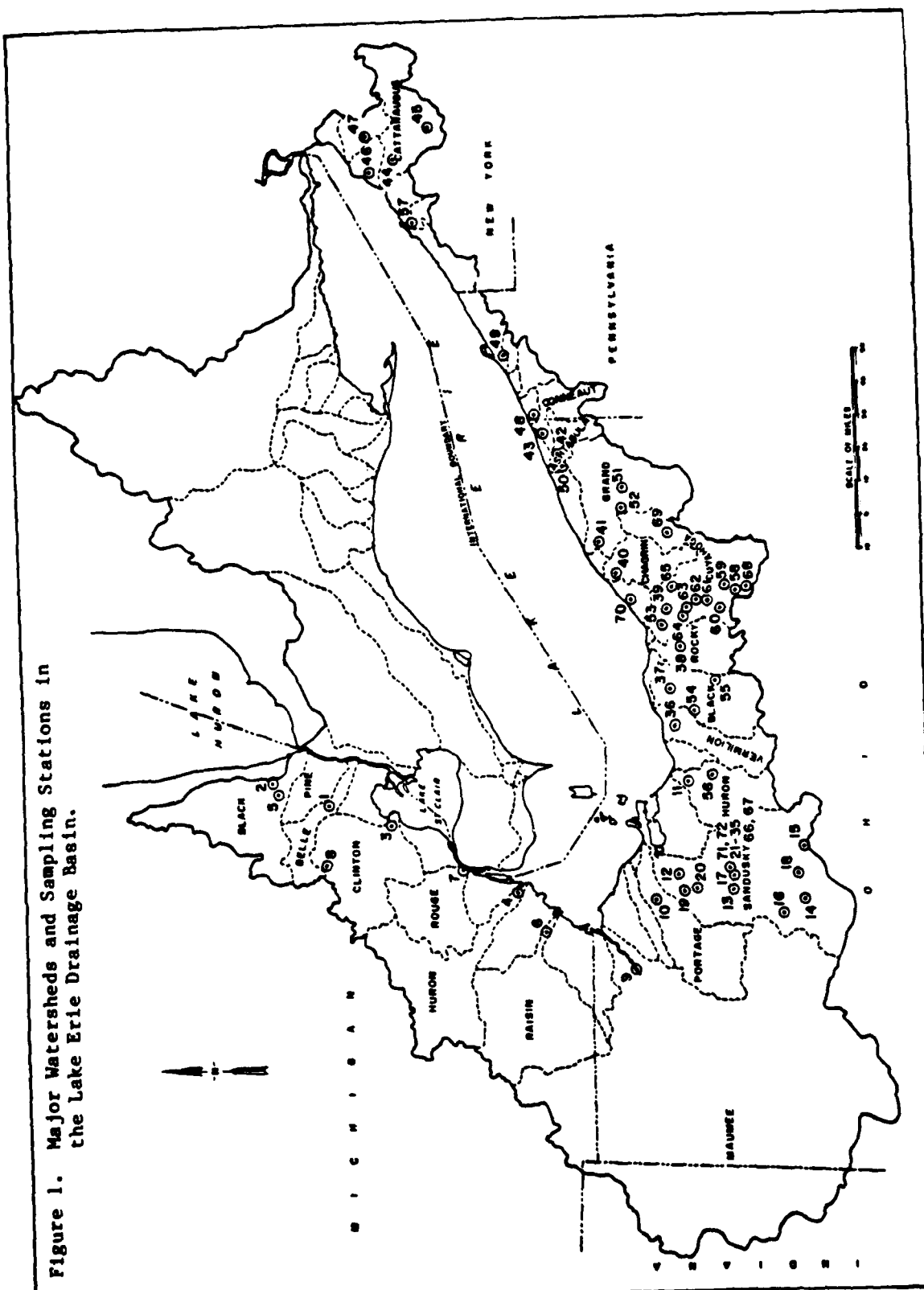
The Lake Erie Drainage Basin was partitioned into major watersheds and direct drainage areas. The major watersheds are described in Table 1 and Figure 1. Direct drainage areas are those which are downstream of a major watershed or between major watersheds. Potential gross erosion for major watersheds and direct drainage areas was computed on a county basis with county, watershed, and Lake Erie Drainage Basin totals displayed in the appendix. Before describing the results of applying the USLE to the previously stated land management alternatives the method of analysis will be discussed.

Table 1. Major Watersheds in U.S. Lake Erie Drainage Basin

Stream	Station Number	Sampling Site	Drainage Area (sq. mi.)	Map Code	No. of Samples Analyzed
Belle	04160600 (1)	Murphis, MI	151	1	60
Black	04159500 (1)	Fargo, MI	480	2	61
Clinton	04163500 (1)	Mt. Clemens, MI	734	3	63
Buron	821114 (2)	S. Metropolitan Hwy., MI	849	4	50
Mill Creek	04159900 (1)	Avoca, MI	169	5	65
Balsin	04176500 (1)	Monroe, MI	1,042	6	61
Rouge	820070 (2)	W. Jefferson Bridge, MI	467	7	57
Sashabaw Creek	04160800 (1)	Drayton Plains, MI	20.9	8	62
Maumee	04193500 (1)	Waterville, OH	6,330	9	1,411
Portage	04195500 (1)	Woodville, OH	428	10	1,292
Buron	04199000 (1)	Milan, OH	371	11	1,543
Sandusky	04198000 (1)	Freemont, OH	1,251	12	1,283
Sandusky	04197000 (1)	Mexico, OH	774	13	908
Sandusky	04196500 (1)	Upper Sandusky, OH	298	14	1,139
Sandusky	04196000 (1)	Bucyrus, OH	88.8	15	1,180
Tymochtee Creek	04196800 (1)	Crawford, OH	229	16	973
Money Creek	04197100 (1)	Malmora, OH	149	17	1,194
Broken Sword	04196200 (1)	Nevada, OH	83.8	18	988
Wolf Creek					
West Branch	04197300 (1)	Bettsville, OH	66.2	19	930
Wolf Creek					
East Branch	04197450 (1)	Bettsville, OH	82.3	20	929
Mohawk Lake	A (3)	Tributary below Mohawk Lake	5.3	21	22
Money Creek	1 (3)	At Route 231	171	22	43
Suckeye Creek	E (3)	At Route 67	5.6	23	34
Money Creek	3 (3)	Upstm. from Silver Creek	121.6	24	34
Silver Creek	4 (3)	Confluence with Money Cr.	24.4	25	35
Silver Creek	M (3)	Downstream from Marsh	16.4	26	43
Silver Creek	N (3)	Upstm. from Marsh	12.1	27	43
Aichholz Ditch	6 (3)	Money Creek, County Rd. 49	16.3	28	32
Money Creek	5 (3)	Upstm. from Aichholz Ditch	95.6	29	42
Money Creek	7 (3)	Attica, Route 4	75.6	30	41
Money Creek	F (3)	Weis Road	10.1	31	33
Money Creek	8 (3)	Upstm. from Brokenknife	26.8	32	31
Brokenknife Cr.	D or 9 (3)	County Line Road	20.5	33	35
Trib. Money Cr.	B (3)	R.R. North at Scott Rd.	3.4	34	29
Money Creek	10 (3)	Rt. 103	15.7	35	34
Vermilion	04199500 (1)	Vermilion, OH	262	36	106
Black River	04200500 (1)	Elyria, OH	396	37	101
Rocky	04201500 (1)	Berea, OH	267	38	60
Cuyahoga	04208000 (1)	Independence, OH	707	39	441
Chagrin	04209000 (1)	Willoughby, OH	246	40	101
Grand	04212200 (1)	Painesville, OH	701	41	63
Ashtabula River	04212300 (1)	Ashtabula, OH	121	42	23
Conneaut Creek	04213000 (1)	Conneaut, OH	175	43	23
Cattaraugus Creek	04213500 (1)	Gowanda, NY	432	44	142
S. Br. Cattaraugus	04213490 (1)	Octo, NY	25.60	45	77
Delaware Creek	04214040 (1)	Angola, NY	8.15	46	77
18 Mile Creek	04214200 (1)	W. Boston, NY	37.20	47	77
Raccoon Creek	04213040 (1)	W. Springfield, PA	2.53	48	54
Mill Creek	04213200 (1)	Erie, PA	9.16	49	53
Hubbard Run	04212600 (1)	Ashtabula, OH	.88	50	38
Hockins Creek	04210100 (1)	Hartsgrove, OH	5.42	51	40
Montville Ditch	04210090 (1)	Montville, OH	.29	52	40
Big Creek	04208502 (1)	Cleveland, OH	35.3	53	60
Plum Creek	04200100 (1)	Oberlin, OH	4.83	54	64
Huff Run	04199800 (1)	Litchfield, OH	.76	55	60
Norwalk Creek	04198100 (1)	Norwalk, OH	4.92	56	60
Canadaway		Fredonia, NY	34.9	57	36
Cuyahoga River	04206000 (1)	Old Portage, OH	404	58	197
Mad Brook	04206050 (1)	Akron, OH	29.3	59	162
Yellow Creek	04206220 (1)	Botsun, OH	30.7	60	177
Furnace Run	04206370 (1)	Everett, OH	17.7	61	162
Cuyahoga River	04206400 (1)	Peninsula, OH	494	62	353
Brandywine Creek	04206420 (1)	Jaite, OH	27.2	63	176
Chippewa Creek	04206450 (1)	Brecksville, OH	17.7	64	154
Tinkers Creek	04207200 (1)	Bedford, OH	83.9	65	313
Ackerman Ditch	C (3)	Ackerman Ditch	4.4	66	32
Mohawk Lake	AA (3)	Tributary above Mohawk	3.72	67	34
Little Cuyahoga R.	04205700 (1)	Akron, OH	59.2	68	24
Cuyahoga River	04202000 (1)	River Rapids, OH	151	69	39
Euclid Creek	04208690 (1)	Euclid, OH	22.6	70	189
Rock Creek West	BNW (4)	County Rd 16	13.6	71	34
Rock Creek East	RCE (4)	County Rd 16	7.0	72	33

- (1) U.S. Geological Survey Station Code
(2) Michigan Department of Natural Resources Code
(3) Corps of Engineers Money Creek Watershed Code
(4) Corps of Engineers Code

Figure 1. Major Watersheds and Sampling Stations in the Lake Erie Drainage Basin.



Universal Soil Loss Equation

The Universal Soil Loss Equation (USLE), is an empirical approach for computing potential gross erosion using climatic, soil, topographic, crop management, and conservation practice data (Smith and Wischmeier, 1957, 1962). The USLE is:

$$A = (R) \times (K) \times (LS) \times (C) \times (P)$$

where A = average annual soil loss (tons/acre/yr)
R = erosive potential rainfall factor
K = soil erodibility factor
LS = topographic slope and slope length factor
C = crop management factor
P = conservation practice factor

The crop management factor C, is the only parameter which changes as different land management alternatives are applied to Lake Erie Drainage Basin cropland. Mentioned previously, application of land management alternatives such as no-till and reduced tillage-chisel plowing are dependent upon soil drainage properties. Therefore, before a C factor can be assigned to an area under consideration for maximum reduced tillage, no-till, or reduced tillage-chisel plowing, the drainage characteristics of the soil must be known. For this reason, soil management groups were established for cropland soils which exhibit similar drainage characteristics and similar response to no-till and reduced tillage-chisel plowing.

Soil Management Groups (SMGs)

Ten SMGs were used in the analysis of land management alternatives. The SMGs are adapted from Triplett et al and listed below:

Tillage group 1 - Soils in this group have yield response to no tillage equal to or greater than conventional tillage. Soils are moderately well, well, and excessively well drained. They have silt loam, loam, sandy loam, or loamy fine sand surface texture. They are low in organic matter.

Tillage group 2 - These soils should have yield responses to no tillage nearly equal to conventional tillage if soil drainage has been improved. These soils are somewhat poorly drained in their natural state. They have a silt loam, loam, sandy loam, or loamy fine sand surface texture. They are low in organic matter.

Tillage group 3 - These soils yield less with no tillage than conventional tillage. They are somewhat poorly to very poorly drained. Tile does not provide adequate drainage. Surface texture is loam,

silt loam, or silty clay loam. Most of these soils are low in organic matter.

Tillage group 4 - Soils in this group may yield less with no tillage than conventional tillage. They are very poorly drained. They have surface textures of silty clay loam and clay loam. They contain relatively high amounts of organic matter in the surface.

Tillage group 5 - These are organic soils, alluvial soils, and certain fine textured soils. These soils do not respond well to no tillage.

Soil Management groups 6-9 have the same subsurface characteristics as SMGs 2-5 respectively; however, the surface texture of SMGs 6-9 are silty clay or clay. The differentiation of SMGs 2-5 and 6-9 by surface texture was necessary to examine potential gross erosion of surface silty clays and clay which may contribute greater quantities of sediment phosphorus to receiving waters. SMG 10 includes all soils located on slopes equal to or greater than 18 percent.

Under the maximum reduction scenario, no-till is applied to cropland soils in SMGs 1, 2, 6, and 10. Reduced tillage-chisel plowing is assumed for SMGs 4 and 8 while conventional moldboard plowing is used on SMGs 3, 5, 7, and 9.

Under the reduced tillage-chisel plowing scenario, SMGs 1, 2, 4, 6, 8, and 10 undergo chisel plowing. Again, conventional tillage is applied to SMGs 3, 5, 7, and 9.

RESULTS - SELECTED WATERSHEDS

The Maumee River, Honey Creek, and Cattaraugus Creek Watersheds have been chosen for discussion of potential gross erosion values. All three of these watersheds have a special significance in the United States portion of the Lake Erie Drainage Basin. The Maumee River is the largest contributor of diffuse source phosphorus to the highly eutrophic Western Basin of Lake Erie. Honey Creek, on the other hand, is a demonstration watershed for implementation of no-till and reduced tillage crop management scenarios; note that existing conditions discussed in this report do not include recently established no-till and reduced tillage cropland. Finally, Cattaraugus Creek Watershed was selected for discussion because it contains some of the greatest slopes in the Lake Erie Drainage Basin - a factor which has a large influence on potential gross erosion.

Maumee River Watershed

Potential gross erosion values for the Maumee River Watershed are shown on p. 72 of the Appendix. Total potential gross erosion (PGE) of cropland, grassland, and woodland in the Maumee River Basin is 9,128,000 tons/year on 2,993,000 acres (1,200,000 hectares), 3.05 tons/ac/yr (6.8 metric tonnes/hectare/yr). At least 67 percent of the cropland experiences soil erosion at a rate less than T, the tolerable soil loss rate, and only 1.4 tons/ac/yr (3.14 tonnes/hectare/yr). The remaining cropland is eroding at an average rate of 7.9 tons/ac/yr (17.7 tonnes/hectare/yr). By bringing the cropland which currently exceeds T to within T the average potential gross erosion rate could be reduced 44.2 percent to 1.7 tons/ac/yr (3.8 tonnes/hectare/yr) for the entire basin.

The variation of potential gross erosion among soil groups is particularly interesting. It is apparent that the highest gross erosion rates occur on soils with the greatest opportunity for improvement. SMG 1 has a current PGE of 9.4 tons/ac/yr (20.9-tonnes/hectare/yr). The principal reason for SMG 1 having the greatest PGE (outside SMG 10) is that it has the highest average slope of the SMGs at approximately seven percent.

Within the Maumee River Watershed lie Williams and Putnam Counties. The potential gross erosion tables for these two counties are located on p. 57 and p. 64. From these tables it is apparent that Williams County has some of the greatest values of PGE while Putnam has some of the lowest. A closer inspection of these tables reveals the reason for the difference in values between the two counties.

Williams County exhibits a present potential gross erosion rate which is more than double that of Putnam County. The presence of SMG 10 in Williams County indicates high land slopes which is likely responsible for the high PGE values.

Encouraging is the fact that in Williams County those soil management groups which possess the greatest acreages and potential gross erosion values are also suitable to no-till and reduced tillage farming; soil management groups 1 and 2 make up 66 percent of the cropland soils in Williams County. With implementation of the maximum reduction scenario potential gross erosion is reduced 77.6 percent and the rate of PGE is even lower than Putnam County under the same scenario.

PGE from cropland in Putnam County is only reduced 32 percent under the maximum reduction scenario. The reason for this lower reduction is that 45 percent of the land is in SMGs 3 and 9 and remains in conventional tillage under this scenario. While the conclusion that the maximum reduction scenario is an effective management strategy for

the Maumee River Basin (a 73 percent reduction in potential gross erosion from cropland), there are counties in the basin such as Putnam which require other soil conservation practices.

Honey Creek Watershed

Potential gross erosion values for the Honey Creek Watershed are summarized on p. 118. Cropland SMGs 1, 2, and 10 again exhibit the greatest rates of PGE at 8.0, 3.7, and 112.9 tons/ac/yr respectively. After implementation of maximum reduction tillage these values would drop to 1.2, 0.5, and 16.6 tons/acre/yr. Under maximum reduction tillage and reduced tillage scenarios the entire watershed would exhibit an 80 and 53 percent reduction in PGE respectively. Of the remaining scenarios, winter cover crop and spring plowing show only slight reductions in PGE. Conversely, fall plowing alone results in a seven percent increase in PGE. Maximum reduction tillage and reduced tillage-chisel plowing are obviously the preferred scenarios.

Cattaraugus Creek Watershed

Nine percent of the cropland in the Cattaraugus Creek Watershed is located on slopes greater than 18 percent (p. 268). This land accounts for the relatively high cropland PGE of 6.2 tons/ac/yr. Because almost 50 percent of the watershed is in low PGE woodland, grassland, and pasture, however, the average PGE for the basin is reduced to 3.2 tons/ac/yr.

A large variation exists in PGE values for the different land management alternatives. Switching to spring plowing or winter cover crop does little to reduce PGE while fall plowing alone increases PGE by 12 percent. Implementation of no-till and reduced tillage, on the other hand, will lower PGE 54 and 35 percent under maximum reduction tillage and reduced tillage-chisel plow scenarios respectively.

CONCLUSIONS

The adoption of the maximum reduction tillage scenario will result in a large reduction of PGE in the United States portion of the Lake Erie Basin. Its application of no-till and reduced tillage crop management systems to only those soils which exhibit adequate crop response assures the same or greater profit to the farmer. Though maximum reduction tillage results in the lowest PGE of any land management alternative investigated in this report, there are counties in the basin such as Putnam County, Ohio, where other soil conservation methods will be required.

The reduced tillage-chisel plowing scenario also shows favorable reductions in PGE as compared to present conditions though not as

great as the maximum reduction tillage alternative. Spring plowing and winter cover crop scenarios offer little or no reduction in PGE. Fall plowing of all cropland would increase PGE by 5-12 percent. In conclusion, maximum reduction tillage and reduced tillage-chisel plowing scenarios offer the most effective method to reduce cropland soil loss and diffuse source phosphorus input to Lake Erie.

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APPENDIX E

Major Watersheds

Note: In some cases the summation of values for watershed counties will not equal the "All in Basin" total for the watershed due to slight errors in data collection and coding

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: BLACK RIVER		FARGO, MI		COUNTY: 32 SAGINAW, MICHIGAN																	
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCED GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL WASH LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	REDUCED SOIL LOSS (TONS/ACRE)	TOTAL POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCED TOTAL POTENTIAL GROSS EROSION (TONS/ACRE)	PERCENT REDUCTION								
CROPLAND 1	33272.2	33272.2	32775.6	37245.0	33272.2	13900.8	29796.0	43337.4	0.0	0.0	33272.2	29796.0	10.1								
CROPLAND 2	30970.1	30970.1	30507.8	34668.0	30970.1	12942.7	27739.4	135465.7	0.0	0.0	30970.1	27739.4	10.1								
CROPLAND 3	344.1	344.1	339.0	345.2	344.1	344.1	344.1	889.6	0.0	0.0	344.1	344.1	0.0								
CROPLAND 4	743.8	743.8	732.7	832.6	743.8	666.1	666.1	3321.1	0.0	0.0	743.8	666.1	10.1								
CROPLAND 5	1218.0	1218.0	1199.8	1363.4	1218.0	1218.0	1218.0	17672.0	0.0	0.0	1218.0	1218.0	0.0								
CROPLAND 6	1964.3	1964.3	1930.9	2198.8	1964.3	820.9	1759.0	266.9	0.0	0.0	1964.3	1759.0	10.1								
CROPLAND 7	68512.5	67793.6	67489.8	76693.0	68512.5	29896.6	61517.5	195953.5	0.0	0.0	68512.5	61517.5	10.1								
VINEYARDS AND ORCH.	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	0.0	0.0	41.2	41.2	0.0								
GRASSLAND AND PASTURE	191.6	191.6	191.6	191.6	191.6	191.6	191.6	191.6	0.0	0.0	191.6	191.6	0.0								
WOODLAND	265.5	265.5	265.5	265.5	265.5	265.5	265.5	265.5	0.0	0.0	265.5	265.5	0.0								
TOTAL POTENTIAL GROSS EROSION														222483.0							
REDUCED TOTAL POTENTIAL GROSS EROSION														63083.3							
PERCENT REDUCTION:														71.0							

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

SUSIN: BLACK RIVER		FARGO, MI		COUNTY: 35 LAPEER, MICHIGAN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW (TONS/ACRE)	SOIL WENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)				
CROPLAND 1	438.3 1.0	438.3 1.0	432.2 1.0	499.1 1.2	458.3 1.0	133.9 .3	353.3 .3	425.0	0.0 0.0				
CROPLAND 2	3016.4 1.0	3016.4 1.0	2974.5 1.0	3435.4 1.2	3016.4 1.0	921.7 .3	2423.3 .3	2886.2	0.0 0.0				
CROPLAND 4	50.5 .1	50.5 .1	49.6 .1	57.5 .2	50.5 .1	40.7 .1	40.7 .1	355.8	0.0 0.0				
CROPLAND 5	12.7 .1	12.7 .1	12.5 .1	14.5 .1	12.7 .1	12.7 .1	12.7 .1	118.6	0.0 0.0				
CROPLAND 10	494.4 12.5	497.7 5.0	487.6 12.3	563.1 14.3	494.4 12.5	151.1 3.8	399.3 18.1	39.5	39.5 12.5				
CROPLAND	4012.3 1.0	3715.6 1.0	3956.6 1.0	4569.6 1.2	4012.3 1.0	1260.1 .3	3234.5 .3	3925.1					
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 0.0	118.6 (ACRES)								
GRASSLAND AND PASTURE	1.0 39.5	1.0 (TONS) 39.5 (ACRES)	OTHER LAND USE AREA	296.5 (ACRES)									
WOODLAND	50.1 741.3	50.1 (TONS) 741.3 (ACRES)	MISSING DATA	0.0 (ACRES)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	4063.4 .9	4007.7 .9	4620.7 1.0	4063.4 .9	1311.2 .3	3285.7 .7	4635.9						
PERCENT REDUCTION:	0.0	7.3	14.4	0.0	67.7	13.1							

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PLACK RIVER			COUNTY: 34 ST. CLAIR, MICHIGAN												
LAND USE		EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS)		FALL PLOWING ONLY (TONS)		WINTER COVER CROP (TONS)		MAXIMUM REDUCTION TILLAGE (TONS)		REDUCED TILLAGE: CHISEL PLOW AREA (TONS)		SOIL MGMT. 2033P LAND (ACRES)		EXISTING SOIL LOSS S T FACTOR (ACRES)	
CROPLAND 1	1818.8	1.7	1259.7	1792.4	2108.7	1818.8	606.3	1023.4	1068.0	320.0	4.7				
346			1.2	1.7	2.0	1.7	.6	1.1							
CROPLAND 2	7736.6		7736.6	7624.5	8970.0	7736.6	2578.9	6050.3	13289.5	0.0	0.0				
345		.4	.4	.4	.5	.4	.1	.3							
CROPLAND 3	37.0		37.0	36.5	42.9	37.0	37.0	37.0	30.0	0.0	0.0				
346		1.2	1.2	1.2	1.4	1.2	1.2	1.2		0.0					
CROPLAND 4	410.7		410.7	404.7	476.2	410.7	321.4	321.4	1910.0	0.0	0.0				
343		.3	.3	.3	.3	.3	.2	.2							
CROPLAND	10003.1		9444.0	9258.1	11597.8	10003.1	5543.6	7036.6	21789.5						
345		.5	.4	.5	.5	.5	.2	.1							
VINEYARDS AND ORCH.	0.0		0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	40.0 (ACRES)									
346		0.00	0.00 (TONS/ACRE)	AREA ONLY											
BRASSLAND AND PASTURE	25.9		25.9 (TONS)	259P LAND USE AREA	2620.0 (ACRES)	2620.0 (ACRES)									
345		.02	.02 (TONS/ACRE)												
WOODLAND	115.4		115.4 (TONS)	MISSING DATA	3990.0 (ACRES)	3990.0 (ACRES)									
346		.05	.05 (TONS/ACRE)												
SUMMARY TOTAL POTENTIAL GROSS FROSTION	11752.5		11106.8	11584.6	13600.0	11752.5	4269.0	9242.5	29159.6						
PERCENT REDUCTION:	0.0		5.5	1.4	-15.7	0.0	63.7	21.4							

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BLACK RIVER		FARGO, MN		COUNTY: 62 ALL IN BASIN															
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TONS)	EXISTING GROSS EROSION (TONS)	EXISTING GROSS EROSION (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
CROPLAND 1	35529.2	34970.2	35009.2	39852.8	35529.2	14645.0	31572.4	43067.0	320.0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
CROPLAND 2	41723.2	41723.2	41106.9	47073.4	41723.2	16443.3	36219.1	165568.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 3	381.1	381.1	375.4	428.1	381.1	381.1	381.1	919.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 4	1285.0	1285.0	1187.3	1356.3	1205.0	1028.2	1028.2	5086.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 5	1230.7	1230.7	1212.3	1377.9	1230.7	1230.7	1230.7	19037.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 10	2458.7	1443.1	2422.5	2761.9	2458.7	972.0	2157.3	306.4	306.4	8.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
CROPLAND 10	82527.9	80953.3	81304.6	92860.4	82527.9	34700.3	72588.3	231986.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VINEYARDS AND ORCH.	41.2	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)	41.2 (TONS)
GRASSLAND AND PASTURE	208.5	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)	208.5 (TONS)
WOODLAND	431.1	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)	431.1 (TONS)
SUMMARY TOTAL POTENTIAL GROSS EROSION	86272.2	84766.0	85003.9	96985.1	86272.2	36683.7	75967.2	267705.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT REDUCTION:	0.0	-2.2	1.5	-12.4	0.0	57.5	11.3												

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

Basin: PILL CREEK AVGCCMI COUNTY: 32 SAMILAC, MICHIGAN

LAND USE	EXISTING POTENTIAL LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOU AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
1	1434.8	1434.6	1413.9	1434.1	599.6	1284.9	1621.0	0.0
2	1010.0	1010.0	994.9	1010.0	422.1	984.5	3993.2	0.0
3	5.0	5.0	4.9	5.0	5.0	5.0	39.5	0.0
4	10.2	10.2	10.0	10.2	9.1	9.1	39.5	0.0
5	9.9	9.9	9.7	9.9	9.9	9.9	197.7	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0			

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MILL CREEK		AVOCA, MI		COUNTY: 33 LAPEER, MICHIGAN										EXISTING SOIL LOSS FACTOR (ACRES)		(TONS/ACRE)	
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO EROSION (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW (TONS/ACRE)	SOIL MGMT. 203J+ LAND (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)	(TONS/ACRE)		(TONS/ACRE)					
200PLAND 1	18818.5	18499.5	18549.2	21423.1	18810.5	5747.6	15152.3	11426.1	39.5								
546	1.6	1.6	1.6	1.9	1.6	.5	1.3		9.9								
200PLAND 2	8376.5	8376.5	8260.2	9539.9	8376.5	2559.5	6747.7	11465.7	0.0								
545	.7	.7	.7	.8	.7	.2	.5		0.0								
200PLAND 4	311.3	311.3	306.9	354.5	311.3	250.7	250.7	1976.9	0.0								
546	.2	.2	.2	.2	.2	.1	.1		0.0								
200PLAND 5	269.1	269.1	265.3	306.4	269.1	269.1	269.1	3795.5	0.0								
543	.1	.1	.1	.1	.1	.1	.1		0.0								
200PLAND 10	1178.4	434.9	1162.0	1342.0	1178.4	360.1	943.2	118.6	118.6								
546	9.9	3.7	9.8	11.3	9.9	3.0	8.0		9.9								
203PLAND	28945.8	27891.3	28543.6	32965.9	28945.8	9187.0	23369.5	28782.7									
1.0	1.0	1.0	1.0	1.1	1.0	.3	.9										
VINEYARDS AND ORCH.	45.3	45.3 (TONS)	JATER AREA ONLY	1858.2 (ACRES)													
1.15	39.5	39.5 (ACRES)	1.15 (TONS/ACRE)														
200PLAND AND PASTURE	95.8	95.8 (TONS)	OTHER LAND	35584.3 (ACRES)													
1818.7	1818.7 (ACRES)	JSE AREA															
.05	.05 (TONS/ACRE)																
WOODLAND	495.4	495.4 (TONS)	MISSING DATA	672.1 (ACRES)													
6405.0	6405.0 (ACRES)																
.08	.08 (TONS/ACRE)																
SUMMARY TOTAL POTENTIAL GROSS EROSION	30119.0	29045.4	29709.5	34212.0	30119.0	10001.7	24441.6	37718.0									
.8	.8	.8	.9	.9	.8	.3	.5										
PERCENT REDUCTION:	0.0	3.6	1.4	-13.6	0.0	66.8	18.4										

[illegible]

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MILL CREEK			AVOCAMI			COUNTY: 62 ALL IN BASIN																			
LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO T. AND EXISTING ONLY (TONS)	REDUCE SOIL PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. BODYP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)																
CROPLAND 1	23671.9	22874.2	23339.6	27002.1	23671.9	7489.5	19113.3	14297.1	129.5																
SAG	1.7	1.6	1.6	1.9	1.7	.5	1.3		0.9																
CROPLAND 2	29468.2	29468.2	29045.9	33953.5	29468.2	9675.5	23369.3	49538.6	0.0																
SAG	.6	.6	.6	.7	.6	.2	.5		0.0																
CROPLAND 3	5.0	5.0	4.9	5.6	5.0	5.0	5.0	39.3	0.0																
SAG	.1	.1	.1	.1	.1	.1	.1		0.0																
CROPLAND 4	1070.7	1070.7	1055.4	1234.5	1070.7	846.3	846.3	4996.4	0.0																
SAG	.2	.2	.2	.2	.2	.2	.2		0.0																
CROPLAND 5	390.5	390.5	385.0	446.8	390.5	390.5	390.5	5853.2	0.0																
SAG	.1	.1	.1	.1	.1	.1	.1		0.0																
CROPLAND 10	1178.4	434.9	1162.0	1342.0	1178.4	360.1	943.2	118.6	9.9																
SAG	9.9	3.7	9.8	11.3	9.9	3.0	8.0		9.9																
CROPLAND	55784.7	54243.5	54992.7	63984.7	55784.7	18766.9	44678.3	74843.4																	
SAG	.7	.7	.7	.9	.7	.3	.5																		
VINEYARDS AND ORCH.	84.0	84.0 (TONS)			2127.3 (ACRES)																				
	119.5	119.5 (ACRES)																							
	.70	.70 (TONS/ACRE)																							
GRASSLAND AND PASTURE	147.6	147.6 (TONS)			8861.3 (ACRES)																				
	4195.9	4195.9 (ACRES)																							
	.04	.04 (TONS/ACRE)																							
WOODLAND	667.4	667.4 (TONS)			4221.6 (ACRES)																				
	11227.5	11227.5 (ACRES)																							
	.06	.06 (TONS/ACRE)																							
SUMMARY TOTAL POTENTIAL GROSS EROSION	59331.2	57718.3	58502.2	67914.2	59331.2	20584.4	47706.5	94507.3																	
PERCENT REDUCTION:	0.0	2.7	1.4	-14.5	0.0	65.3	19.5																		

Lake Erie Wastewater Management Study
 Land Management Alternatives: Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

Basin: Belle River County: 33 Lapeer, Michigan

Land Use	Existing Gross Erosion (tons/acre)	Potential Gross Erosion (tons/acre)	Loss to Tilling Only (tons/acre)	Loss to Tilling Only (tons/acre)	Fall Ploving Only (tons/acre)	Winter Cover Crop (tons/acre)	Maximum Reduction Tillage (tons/acre)	Reduced Tillage (tons/acre)	Soil Mgmt. 2030 Area (acres)	Existing Soil Loss by Factor (tons/acre)
CROPLAND	23717.0	23600.2	23387.6	27011.0	23717.0	23717.0	7246.9	10105.3	13956.5	39.5
346 1	1.7	1.7	1.7	1.9	1.7	1.7	.5	1.4	1.4	5.0
CROPLAND	8556.4	8556.4	8437.5	8744.8	8556.4	8556.4	2614.5	6892.7	13007.6	0.0
346 2	.7	.7	.6	.7	.7	.7	.2	.3	.3	0.0
CROPLAND	430.0	430.0	424.1	489.8	430.0	430.0	346.4	346.4	2490.0	0.0
346 4	.2	.2	.2	.2	.2	.2	.1	.1	.1	0.0
CROPLAND	293.2	293.2	289.1	333.9	293.2	293.2	293.2	293.2	3835.1	0.0
346 5	.1	.1	.1	.1	.1	.1	.1	.1	.1	0.0
CROPLAND	9177.9	2174.5	7050.5	10452.7	9177.9	9177.9	2804.4	7393.3	553.5	553.5
346 10	16.6	3.9	16.4	18.9	16.6	16.6	5.1	13.4	16.6	16.6
CROPLAND	42174.5	35054.3	41548.9	44032.2	42174.5	42174.5	13305.4	34030.9	33643.5	
346 1.2	1.0	1.0	1.2	1.4	1.2	1.2	.4	1.3		
VINEYARDS AND ORCH.	106.2	106.2 (tons)	197.7 (acres)	197.7 (acres)	106.2 (tons)	197.7 (acres)	2016.4 (acres)			
346 .54	.54	.54 (tons/acre)								
PASTURE	286.1	286.1 (tons)	286.1 (tons)	5732.8 (acres)	286.1 (tons)	5732.8 (acres)				
346 .10	.10	.10 (tons/acre)								
WOODLAND	790.9	790.9 (tons)	790.9 (tons)	711.7 (acres)	790.9 (tons)	711.7 (acres)				
346 .11	.11	.11 (tons/acre)								
SUMMARY TOTAL POTENTIAL GROSS EROSION	44059.6	36824.1	43464.5	50012.1	44059.6	44059.6	14723.1	35784.1	44676.6	
PERCENT REDUCTION:	0.0	16.4	1.4	-13.5	0.0	0.0	66.6	19.9		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BELLE RIVER		COUNTY: IN ST. CLAIR, MICHIGAN																
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)										
CROPLAND 1	1147.6	1042.7	1130.5	1147.6	382.5	890.1	560.0	60.0										
\$46	2.0	1.9	2.0	2.0	.7	1.1		4.7										
CROPLAND 2	13134.6	12944.2	15228.5	13134.6	4378.2	10279.2	25789.7	3.4										
\$46	.5	.5	.6	.5	.2	.4		3.0										
CROPLAND 4	899.7	886.7	1343.2	899.7	704.1	704.1	3830.0	0.0										
\$46	.2	.2	.3	.2	.2	.2		0.0										
CROPLAND 5	73.3	72.3	85.0	73.3	73.3	73.3	1220.0	0.0										
\$46	.1	.1	.1	.1	.1	.1		0.0										
VINEYARDS AND ORCH.	15255.2	15150.3	15034.1	15255.2	5538.1	11950.7	31399.7											
	.5	.5	.6	.5	.2	.4												
	34.6 (TONS)	34.6 (TONS)	44.9 (TONS)	160.0 (ACRES)														
GRASSLAND AND PASTURE	51.7	51.7	51.7	4270.0 (ACRES)														
	2040.0	2040.0 (ACRES)	2040.0 (ACRES)															
	.03 (TONS/ACRE)	.03 (TONS/ACRE)																
WOODLAND	115.7	115.7 (TONS)	MISSING DATA	4250.0 (ACRES)														
	3000.0	3000.0 (ACRES)																
	.04	.04 (TONS/ACRE)																
SUMMARY TOTAL POTENTIAL GROSS EROSION	17254.6	17137.5	17007.8	19969.4	6407.6	13570.3	40799.7											
	.4	.4	.4	.5	.2	.3												
PERCENT REDUCTION:	0.0	.7	1.4	-15.7	0.0	21.4												

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BELLE RIVER		MEMPHIS, MI		COUNTY: 3A MACOMB, MICHIGAN															
LAND USE	EXISTING POTENTIAL GROSS FROSION (TONS)	LOSS TO PLOWING AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS)
1	24.3	24.3	24.0	24.0	27.7	24.0	4.9	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	207.0	207.0	204.3	236.0	204.3	41.4	119.5	210.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	161.8	161.8	159.7	184.5	159.7	161.8	161.8	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	7.9	7.9	7.8	9.0	7.8	4.3	4.3	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	3.0	3.0	2.9	3.4	2.9	3.0	3.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	1.2	1.2	1.2	1.4	1.2	1.2	1.2	340.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VINEYARDS AND ORCH.	24.0	24.0 (TONS)	10.0 (ACRES)	90.0 (ACRES)	90.0 (ACRES)	90.0 (ACRES)	90.0 (ACRES)	90.0 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	7.3	7.3 (TONS)	210.0 (ACRES)	220.0 (ACRES)	220.0 (ACRES)	220.0 (ACRES)	220.0 (ACRES)	220.0 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WOODLAND	2.8	2.8 (TONS)	70.0 (ACRES)	120.0 (ACRES)	120.0 (ACRES)	120.0 (ACRES)	120.0 (ACRES)	120.0 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS FROSION	521.5	521.5	515.2	598.9	515.2	297.0	394.3	750.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT REDUCTION:	0.0	0.0	1.2	-12.9	1.2	43.0	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BELLE RIVER		MEMPHIS, MI		COUNTY: 62 ALL IN BASIN															
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CRIPSEL PLow AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)												
CROPLAND 1	24888.6 1.7	24667.3 1.7	24542.5 1.7	20369.2 2.0	20888.5 1.7	10546.5 1.4	99.5 4.8												
CROPLAND 2	21898.0 .6	21898.0 .6	21586.1 .6	25209.3 .6	21895.3 .6	59007.2 .2	0.8 0.0												
CROPLAND 3	161.8 2.3	161.8 2.3	159.7 2.3	184.5 2.6	159.7 2.3	78.2 2.3	0.8 0.0												
CROPLAND 4	1337.6 .2	1337.6 .2	1318.5 .2	1541.9 .2	1337.5 .2	6348.8 .2	0.8 0.0												
CROPLAND 5	369.5 .1	369.5 .1	364.3 .1	422.3 .1	369.5 .1	5065.0 .1	0.8 0.0												
CROPLAND 10	9177.9 16.6	2174.5 3.9	9050.5 16.4	10452.7 18.9	9177.9 16.6	553.5 13.4	553.5 15.6												
VINEYARDS AND ORCH.	164.9 317.7 .52	164.9 (TONS) 317.7 (ACRES) .52 (TONS/ACRE)	164.9 (TONS) 317.7 (ACRES) .52 (TONS/ACRE)	2266.4 (ACRES)	2266.4 (ACRES)	65503.0													
PASTURE AND PASTURE	345.2 5096.6 .07	345.2 (TONS) 5096.6 (ACRES) .07 (TONS/ACRE)	345.2 (TONS) 5096.6 (ACRES) .07 (TONS/ACRE)	10222.8 (ACRES)	10222.8 (ACRES)														
WETLAND	909.4 10147.1 .09	909.4 (TONS) 10147.1 (ACRES) .09 (TONS/ACRE)	909.4 (TONS) 10147.1 (ACRES) .09 (TONS/ACRE)	5081.6 (ACRES)	5081.6 (ACRES)														
SUMMARY TOTAL POTENTIAL GROSS FROSTING	62963.8 .7	62103.9 .7	71632.4 .7	62956.3 .7	21760.8 .3	85226.0													
PERCENT REDUCTIONS:	0.8	12.2	1.4	-14.1	65.4	19.3													

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CLINTON RIVER										MT. CLEMENS, MI										COUNTY: 33 LAFAYETTE, MICHIGAN									
LAND USE		EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY		FALL PLOWING ONLY		WINTER COVER CROP		MAXIMUM REDUCTION TILLAGE (TONS)		REDUCED TILLAGE: CHIEFLY PLOW AREA (TONS)		SOIL MGMT. GROUP LAND (ACRES)		EXISTING SOIL LOSS > 1 FACTOR (ACRES)		EXISTING SOIL LOSS (TONS/ACRE)		EXISTING SOIL LOSS (TONS/ACRE)		EXISTING SOIL LOSS (TONS/ACRE)									
1	5072.4	5049.1	5001.9	5776.9	5072.4	1549.4	4385.1	3139.7	474.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
2	938.6	938.6	925.6	1069.0	938.6	246.4	756.1	2253.6	756.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
4	75.2	75.2	74.2	95.7	75.2	60.6	63.5	395.4	63.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
5	24.9	24.9	24.6	24.4	24.9	24.9	24.9	316.3	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0									
10	3167.0	711.7	3123.1	3606.9	3167.0	967.7	2551.2	197.7	2551.2	197.7	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0									
14	9278.1	6798.5	9149.4	10566.8	9278.1	2889.9	7479.3	6502.7	7479.3	6502.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4									
VINEYARDS AND ORCH.		145.6		145.6 (TONS)		355.8		355.8 (ACRES)		474.4 (ACRES)		474.4 (ACRES)		474.4 (ACRES)		474.4 (ACRES)		474.4 (ACRES)		474.4 (ACRES)									
GRASSLAND AND PASTURE		67.2		67.2 (TONS)		869.8		869.8 (ACRES)		1107.0 (ACRES)		1107.0 (ACRES)		1107.0 (ACRES)		1107.0 (ACRES)		1107.0 (ACRES)		1107.0 (ACRES)									
WOODLAND		131.7		131.7 (TONS)		1739.6		1739.6 (ACRES)		39.5 (ACRES)		39.5 (ACRES)		39.5 (ACRES)		39.5 (ACRES)		39.5 (ACRES)		39.5 (ACRES)									
SUMMARY TOTAL POTENTIAL GROSS EROSION		9662.3		7172.5		7533.1		10956.3		9662.3		3247.8		7853.7		9607.4		9607.4		9607.4									
PERCENT REDUCTION:		9.0		25.8		1.3		-13.4		0.0		66.4		18.7		18.7		18.7		18.7									

LAKE ERIC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CLINTON RIVER			MT. CLEMENS, MI			COUNTY: 34 ST. CLAIR, MICHIGAN									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH. GROUP LAND (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)						
CROPLAND 1	109.2 .5	109.1 .5	107.5 .5	126.4 .6	109.1 .5	36.4 .2	85.3 .4	200.0	0.0 0.0						
CROPLAND 2	1407.8 .3	1407.8 .3	1387.4 .3	1632.2 .3	1407.8 .3	469.3 .1	1101.7 .2	5149.3	0.0 0.0						
CROPLAND 4	119.8 .2	119.8 .2	118.1 .2	136.9 .3	119.8 .2	93.8 .2	93.9 .2	510.0	0.0 0.0						
CROPLAND 5	3.1 .1	3.1 .1	3.1 .1	3.6 .1	3.1 .1	3.1 .1	3.1 .1	30.0	0.0 0.0						
CROPLAND	1639.8 .3	1639.8 .3	1616.1 .3	1901.1 .3	1639.8 .3	602.6 .1	1283.3 .2	5689.3							
VINEYARDS AND ORCH.	3.5 18.0 .35	3.5 (TONS) 10.0 (ACRES) .35 (TONS/ACRE)				0.0 (ACRES)									
GRASSLAND AND PASTURE	5.0 450.0 .01	5.0 (TONS) 450.0 (ACRES) .01 (TONS/ACRE)			1190.0 (ACRES)										
WOODLAND	9.2 480.0 .02	9.2 (TONS) 480.0 (ACRES) .02 (TONS/ACRE)			200.6 (ACRES)										
SUMMARY TOTAL POTENTIAL GROSS EROSION	1706.0 .2	1681.6 .2	1681.6 .2	1975.0 .3	1706.0 .2	38.5 .1	1339.7 .2	7029.9							
PERCENT REDUCTION:	0.0	0.0	1.4	-15.4	0.6	62.6	21.5								

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WATER: CLINTON RIVER MT. CLEMENS, MI COUNTY: 37 OAKLAND, MICHIGAN

LAND USE	EXISTING POTENTIAL LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
CROPLAND 1 SAG	1833.9 1.9	1833.9 1.9	1800.6 1.9	2200.7 2.3	1833.9 .6	1367.1 1.4	950.0	0.0 0.0
CROPLAND 2 SAG	93.0 .3	93.0 .3	91.3 .2	111.6 .3	93.0 .1	69.3 .2	370.0	0.0 0.0
CROPLAND 4 SAG	2.7 .1	2.7 .1	2.7 .1	3.2 .2	2.7 .1	2.0 .1	20.0	0.0 0.0
CROPLAND 5 SAG	.5 .0	.5 .0	.5 .0	.7 .1	.5 .0	.5 .0	10.0	0.0 0.0
CROPLAND 10 SAG	331.9 11.1	150.0 5.0	325.8 10.9	398.2 13.3	331.9 11.1	247.4 8.2	30.0	30.0 11.1
VINEYARDS AND ORCH.	2262.0 1.6	2080.1 1.5	2220.9 1.6	2714.4 2.0	2262.0 1.6	1586.3 1.2	1300.0	
GRASSLAND AND PASTURE	278.4 2990.0 .09	278.4 2990.0 .09	278.4 2990.0 .09	278.4 2990.0 .09	278.4 2990.0 .09	278.4 2990.0 .09		
WOODLAND	187.1 950.0 .20	187.1 950.0 .20	187.1 950.0 .20	22983.0 (ACRES)	22983.0 (ACRES)	22983.0 (ACRES)		
SUMMARY TOTAL POTENTIAL GROSS EROSION	120043.7 5.5	112100.3 5.5	118279.8 5.5	130938.9 6.6	120043.7 5.5	94817.0 2.4	235243.0	
PERCENT REDUCTION:	0.3	6.4	1.5	-16.5	0.0	55.6	21.0	

LAKE ERIC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CLINTON RIVER			MT. CLEMENS, MI			COUNTY: 34 MACOMB, MICHIGAN					
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)		
CROPLAND 1	34227.6	34144.8	33771.2	39019.5	33771.2	6845.5	18939.3	10149.3	2020.0		
SWG	2.4	2.4	2.4	2.8	2.4	.5	1.3		3.0		
CROPLAND 2	27388.9	27388.9	27023.7	31223.3	27023.7	5477.6	15155.2	33979.5	0.0		
SWG	.7	.7	.7	.8	.7	.1	.4		0.0		
CROPLAND 3	4430.3	4430.3	4371.2	5030.6	4371.2	4430.3	4430.3	3280.0	0.0		
SWG	1.4	1.4	1.3	1.5	1.3	1.4	1.4		0.0		
CROPLAND 4	6935.4	6935.4	6842.9	7906.3	6842.9	3837.6	3837.5	15169.3	0.0		
SWG	.5	.5	.5	.5	.5	.3	.3		0.0		
CROPLAND 5	1093.5	1093.5	1078.9	1246.5	1078.9	1093.5	1093.5	2540.0	0.0		
SWG	.4	.4	.4	.5	.4	.4	.4		0.0		
CROPLAND 6	47.0	47.0	46.4	53.6	46.4	26.0	25.3	110.8	0.0		
SWG	.4	.4	.4	.5	.4	.2	.2		0.0		
CROPLAND 9	575.2	575.2	567.4	655.8	567.6	575.2	575.2	1100.0	0.0		
SWG	.5	.5	.5	.6	.5	.5	.5		0.0		
CROPLAND 10	926.9	170.0	914.5	1056.6	914.5	185.4	512.3	40.0	40.0		
SWG	23.2	4.3	22.9	26.4	22.9	4.6	12.3		23.2		
CROPLAND 11	75624.8	74785.1	74616.4	86212.2	74616.4	22471.3	44570.9	75449.4			
SWG	1.0	1.0	1.0	1.1	1.0	.3	.5				
VINEYARDS AND ORCH.	763.3	763.3 (TONS)	763.3 (TONS)	1340.0 (ACRES)	1340.0 (ACRES)						
GRASSLAND AND PASTURE	1162.2	1162.2 (TONS)	1162.2 (TONS)	56009.4 (ACRES)	56009.4 (ACRES)						
SWG	.03	.03 (TONS/ACRE)	.03 (TONS/ACRE)								
WOODLAND	538.1	538.1 (TONS)	538.1 (TONS)	28617.5 (ACRES)	28617.5 (ACRES)						
SWG	.04	.04 (TONS/ACRE)	.04 (TONS/ACRE)								
JANUARY TOTAL POTENTIAL GROSS EROSION	95791.9	94761.8	94554.9	108779.6	94554.9	30587.9	57695.5	15446.3			
PERCENT REDUCTION:	0.0	1.1	1.3	-13.6	1.3	68.1	39.3				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CLINTON RIVER		MT. CLEMENS, MI		COUNTY: 62 ALL IN BASIN															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
CROPLAND 1	40111.2	40004.2	43517.6	50374.2	43654.8	26836.1	21241.3	2994.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	2.1	2.1	2.1	2.4	2.1	1.3	2.1	2.1	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 2	30486.5	30486.5	30078.9	34742.1	30121.3	17523.5	44309.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545	.6	.6	.6	.7	.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
CROPLAND 3	4430.3	4430.3	4371.2	5050.6	4371.2	4430.3	3200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	1.4	1.4	1.3	1.5	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
CROPLAND 4	7261.0	7261.0	7164.3	8279.1	7164.3	4099.1	16629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545	.4	.4	.4	.5	.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
CROPLAND 5	1194.5	1194.5	1178.7	1361.3	1179.9	1194.5	3696.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	.3	.3	.3	.4	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
CROPLAND 6	47.0	47.0	46.4	53.6	46.4	26.0	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	.4	.4	.4	.5	.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
CROPLAND 9	575.2	575.2	567.6	655.8	567.6	575.2	1180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
545	.5	.5	.5	.6	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
CROPLAND 10	4425.8	1031.7	4363.4	5061.4	4413.4	3311.3	267.7	267.7	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
546	16.5	3.9	16.3	14.9	16.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
CROPLAND	92531.5	89030.4	91280.1	105618.5	91523.2	58096.3	95214.6	2994.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	1.0	.9	1.0	1.1	1.0	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
VINEYARDS AND ORCH.	920.9	920.9	920.9	105618.5	91523.2	58096.3	95214.6	2994.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44	.44
PASTURE AND PASTURE	1527.9	1527.9	1527.9	1840.1	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
546	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
FOODLAND	927.1	927.1	927.1	105618.5	91523.2	58096.3	95214.6	2994.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
546	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05	.05
5/49494 TOTAL POTENTIAL GROSS EROSION	263196.2	253588.3	259764.0	299110.5	260429.2	168696.5	425134.5	2994.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT REDUCTIONS:	0.0	3.7	1.3	-13.6	1.1	67.4	35.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LAKE ERIE WASTE/WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

W. JEFFERSON BRIDGE, MI COUNTY: 37 CAYLAND, MICHIGAN

BASIN: ROUGE RIVER

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOUING ONLY AND EXISTING ONLY (TONS/ACRE)	EXISTING GROSS EROSION (TONS/ACRE)	FALL PLOUING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOUING AREA (TONS/ACRE)	SOIL NGPT. LOSS LAND (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
330PLAND 1	212.7	212.7	208.4	255.3	212.7	159.5	100.0	0.0
343	2.1	2.1	2.1	2.6	2.1	1.5	0.0	0.0
330PLAND 2	16.8	16.8	16.5	20.1	16.8	12.5	30.0	0.0
346	.6	.6	.6	.7	.6	.8	0.0	0.0
330PLAND 10	108.6	50.0	106.6	130.3	108.6	80.3	10.0	10.0
343	10.9	5.0	10.7	13.0	10.9	8.1	10.9	10.9
330PLAND	338.1	279.5	331.9	405.7	338.1	252.3	140.0	0.0
343	2.4	2.0	2.4	2.9	2.4	1.5	0.0	0.0
VINEYARDS AND ORCH.	79.6	79.6 (TONS)	79.6 (TONS)	100.0 (ACRES)	50.0 (ACRES)			
343SLAND AND PASTURE	317.1	317.1 (TONS)	317.1 (TONS)	3020.0 (ACRES)				
343	3010.0	3010.0 (ACRES)	3010.0 (ACRES)					
343	.11	.11 (TONS/ACRE)	.11 (TONS/ACRE)					
34300LAND	134.4	134.4 (TONS)	134.4 (TONS)	94050.7 (ACRES)				
343	780.0	780.0 (ACRES)	780.0 (ACRES)					
343	.17	.17 (TONS/ACRE)	.17 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS FROSION	21326.8	19889.0	21174.7	22985.5	21326.8	15744.8	99980.7	
PERCENT REDUCTION:	0.0	6.7	.7	-7.8	0.0	26.2	9.9	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

W. JEFFERSON BRIDGE, MI COUNTY: 4) WASHTENAW, MICHIGAN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO 1 PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	JANUARY COVER (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL WASH. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
CROPLAND 1	13365.6	10306.2	13137.1	15193.3	13022.9	2627.4	7082.5	3290.0	1330.0
SW6	4.1	3.2	4.0	4.6	4.0	.8	2.2		4.9
CROPLAND 2	2718.8	2718.8	2672.3	3090.5	2649.0	534.5	1440.7	1850.0	0.0
SW6	1.5	1.5	1.4	1.7	1.4	.3	.5		0.0
CROPLAND 3	2282.1	2190.0	2243.1	2594.2	2223.6	2282.1	2202.1	730.0	730.0
SW6	3.1	3.0	3.1	3.6	3.0	3.1	3.1		3.1
CROPLAND 4	958.0	556.0	548.4	634.3	543.7	295.7	295.7	1710.0	0.0
SW6	.3	.3	.3	.4	.3	.2	.2		0.0
CROPLAND 5	35.3	35.3	34.7	40.1	34.4	35.3	35.3	150.0	0.0
SW6	.2	.2	.2	.3	.2	.2	.2		0.0
CROPLAND 10	230.9	20.0	227.0	262.5	225.0	45.4	122.4	10.0	10.0
SW6	23.1	2.0	22.7	26.3	22.5	4.5	12.2		23.1
CROPLAND	19190.7	15902.3	18862.6	21814.9	18698.6	5820.4	11259.9	7740.0	
SW6	2.5	2.1	2.4	2.8	2.4	.8	1.5		
VINEYARDS AND ORCH.	39.5	39.5 (TONS)	JATER AREA ONLY	150.0 (ACRES)					
SW6	50.0	50.0 (ACRES)							
SW6	.79	.79 (TONS/ACRE)							
GRASSLAND AND PASTURE	263.1	263.1 (TONS)	OTHER LAND	557.0 (ACRES)					
SW6	3580.0	3580.0 (ACRES)	JSE AREA						
SW6	.07	.07 (TONS/ACRE)							
WOODLAND	155.7	155.7 (TONS)	MISSING DATA	2160.0 (ACRES)					
SW6	1090.0	1090.0 (ACRES)							
SW6	.14	.14 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	23055.2	19196.8	22670.3	26134.4	22471.8	7367.1	13749.3	14620.0	
SW6	1.6	1.3	1.6	1.8	1.5	.5	.3		
PERCENT REDUCTION:	0.0	16.7	1.7	-13.4	2.5	68.0	40.4		

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

Y. JEFFERSON BRIDGE, MI COUNTY: 41 ELY, MICHIGAN

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: ROUGE RIVER		W. JEFFERSON BRIDGE, MI COUNTY: 62 ALL IV BASIN									
LAND USE	EXISTING POT. REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL MGMT.	EXISTING			
	GROSS	LOSS TO T	PLOWING	COVER	TILLAGE	TILLAGE	GROUP LAND	SOIL LOSS			
	EROSION	AND EXISTING ONLY	ONLY	CROP	TILLAGE	CHISEL PLOW AREA		> T FACTOR			
	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)	(ACRES)			
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)			
CROPLAND 1	3849.3	16228.1	50039.5	33997.4	30106.6	5866.2	16096.1	2958.0			
345	5.4	2.9	5.3	6.0	5.3	1.0	2.9	7.6			
CROPLAND 2	13846.6	13445.6	13677.0	15326.7	13776.8	2627.1	7285.2	2188.8			
346	1.4	1.4	1.4	1.6	1.4	.3	.7	3.2			
CROPLAND 3	2282.1	2190.0	2243.1	2594.2	2223.6	2282.1	2282.1	738.0			
346	3.1	3.0	3.1	3.5	3.0	3.1	3.1	3.1			
CROPLAND 4	1729.8	1729.8	1707.3	1922.6	1715.5	910.7	910.7	4240.3			
346	.4	.4	.4	.5	.4	.2	.2	0.0			
CROPLAND 5	178.2	178.2	176.0	197.2	177.3	178.2	178.2	360.0			
345	.5	.5	.5	.5	.5	.5	.5	0.0			
CROPLAND 10	339.5	78.0	333.6	392.8	333.6	80.9	203.3	20.0			
346	17.0	3.5	16.7	19.6	16.7	4.0	10.2	17.0			
CROPLAND	48825.5	33841.7	48167.5	54430.9	48333.4	11945.2	26955.4	20769.9			
VINEYARDS AND ORCH.	301.5	301.5 (TONS)	300.0 (ACRES)	300.0 (ACRES)	600.0 (ACRES)						
GRASSLAND AND PASTURE	1351.3	1351.3 (TONS)	OTHER LAND	44189.5 (ACRES)							
WOODLAND	594.1	594.1 (TONS)	MISSING DATA	204186.4 (ACRES)							
ANNUAL TOTAL POTENTIAL GROSS EROSION	230038.3	162548.6	227074.6	255285.9	227421.8	63923.5	131531.3	262456.1			
PERCENT REDUCTION:	0.0	29.3	1.3	-11.0	1.0	72.2	42.5				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASEIN: NIROU RIVER S. METROPOLITAN PLANT COUNTY: 35 INGHAM, MICHIGAN

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO 1 PLOUGH ONLY (TONS/ACRE)	FALL PLOUGH ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOUGH AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
CROPLAND 1	666.6	659.2	755.5	466.6	192.6	549.1	355.9	0.0
CROPLAND 2	246.7	243.9	279.6	246.7	71.3	292.9	533.7	0.0
CROPLAND 4	19.7	19.5	22.3	19.7	16.2	16.2	89.0	0.0
CROPLAND 5	1.9	1.9	2.1	1.9	.5	1.5	1.5	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.0
WOODLAND	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
SUMMARY TOTAL POTENTIAL GROSS EROSION	1008.6	997.4	1142.5	1008.6	305.4	829.9	1245.5	0.0
PERCENT REDUCTION:	0.0	1.1	-13.3	0.0	69.7	17.7	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MUMON RIVER S. METROPOLITAN PHLY. MI COUNTY: 36 LIVINGSTON, MICHIGAN

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOJ AREA (TONS)	SOIL MENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
1. CROPLAND 1 546	17422.2 1.9	17422.2 1.9	17422.2 2.1	5035.1 1.5	16320.3 1.5	3209.3	0.0
2. CROPLAND 2 546	420.7 0.3	416.0 0.3	476.7 0.4	121.5 0.1	345.9 0.1	1236.0	0.0
3. CROPLAND 3 546	156.8 0.2	155.0 0.2	177.7 0.3	129.9 0.2	129.9 0.2	538.0	0.0
4. CROPLAND 4 546	212.8 0.1	210.5 0.1	241.2 0.1	212.8 0.1	212.8 0.1	1908.0	0.0
5. CROPLAND 5 546	3504.0 17.5	3467.1 17.3	3973.5 19.9	1012.9 5.1	2882.7 19.4	208.0	208.0
6. CROPLAND 6 546	21710.5 1.6	21477.3 1.5	24614.3 1.9	6509.2 1.6	17893.2 1.6	13249.3	0.0
7. VINEYARDS AND ORCH. 546	207.0 0.8	79.4 (TONS) 140.0 (ACRES) 0.57 (TONS/ACRE)	2340.0 (ACRES)				
8. PASTURE AND PASTURE 546	914.8 0.07	914.8 (TONS) 13019.9 (ACRES) 0.07 (TONS/ACRE)	22625.6 (ACRES)				
9. WOODLAND 546	639.7 0.11	639.7 (TONS) 5850.0 (ACRES) 0.11 (TONS/ACRE)	56625.0 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION	64694.0 0.7	64029.4 0.7	72672.7 0.6	22788.1 0.3	54159.7 0.3	81884.8	0.0
PERCENT REDUCTION:	0.0	10.9	12.3	64.8	16.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HURON RIVER S. METROPOLITAN PRJY. MI COUNTY: 37 OAKLAND, MICHIGAN

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WGMT. 232P LAND AREA (ACRES)	EXISTING SOIL LOSS > T. FACTOR (ACRES)
CROPLAND 1	1327.8	1303.7	1593.4	1327.8	983.3	1310.3	9.0
SWG	1.0	1.0	1.2	1.0	.3	1.0	0.0
CROPLAND 2	19.6	19.2	23.5	19.6	19.5	90.0	0.0
SWG	.2	.2	.3	.2	.2	.2	0.0
CROPLAND 5	.5	.5	.7	.5	.5	10.0	0.0
SWG	.0	.0	.1	.0	.0	.0	0.0
CROPLAND 10	110.6	108.6	132.7	110.6	82.3	10.3	10.0
SWG	11.1	10.9	13.3	11.1	9.3	11.1	11.1
CROPLAND	1458.5	1397.9	1750.3	1458.5	1087.7	1420.0	
SWG	1.0	1.0	1.2	1.0	.3	.3	
VINEYARDS AND ORCH.	30.1	30.1	240.0	240.0			
SWG	.60	.60					
GRASSLAND AND PASTURE	278.3	278.3	3220.0	3220.0			
SWG	.07	.07					
WOODLAND	191.0	191.0	94098.5	94098.5			
SWG	.16	.16					
SUMMARY TOTAL POTENTIAL GROSS EROSION	28617.2	28229.9	32882.2	28617.2	23193.1	100998.5	
PERCENT REDUCTION:	0.0	3.1	-14.9	0.0	50.1	13.0	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

S. METROPOLITAN PARKWAY COUNTY: 40 WASHINGTON, MICHIGAN

BASIN: WUROM RIVER											
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO 1 PLOUGH AND EXISTING ONLY (TONS/ACRE)	FALL PLOUGH ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING (TONS/ACRE)
210PLAND 1	284953.7	181988.7	201489.7	233027.1	4297.9	108629.2	55739.2	12299.9	12299.9	4.8	4.8
346	3.7	3.3	3.6	4.2	3.6	1.9	1.9	0.0	0.0	0.0	0.0
213PLAND 2	16645.8	16361.3	18922.2	16219.0	3272.3	8820.3	13349.3	0.0	0.0	0.0	0.0
346	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.0	0.0	0.0	0.0
210PLAND 3	3667.5	3480.0	3604.8	5573.4	3667.5	3667.5	1160.0	1160.0	1160.0	3.2	3.2
346	3.2	3.0	3.1	3.1	3.2	3.2	3.2	0.0	0.0	0.0	0.0
212PLAND 4	3085.0	3032.5	3506.9	3005.9	1634.8	1634.8	9339.3	0.0	0.0	0.0	0.0
346	3.3	3.3	3.4	3.3	3.2	3.2	3.2	0.0	0.0	0.0	0.0
210PLAND 5	880.5	880.5	1000.9	857.9	980.5	980.5	6629.3	0.0	0.0	0.0	0.0
346	1.1	1.1	1.2	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
210PLAND 10	25805.7	5810.0	25344.6	29334.7	5072.9	13674.9	1510.0	1510.0	1510.0	17.1	17.1
346	17.1	3.8	16.3	19.4	16.7	9.1	9.1	17.1	17.1	17.1	17.1
210PLAND	255078.2	211898.0	250718.1	289960.8	54925.9	137507.7	83728.3	137507.7	137507.7	1.5	1.5
346	2.8	2.4	2.8	3.2	2.8	1.5	1.5	1.5	1.5	1.5	1.5
VINEYARDS AND ORCH.	802.9	430.4 (TONS)	430.4 (TONS)	430.4 (TONS)	3350.0 (ACRES)						
346	1.51	0.81 (TONS/ACRE)	0.81 (TONS/ACRE)	0.81 (TONS/ACRE)							
GRASSLAND AND PASTURE	3543.7	3543.7 (TONS)	3543.7 (TONS)	3543.7 (TONS)	72054.7 (ACRES)						
346	0.10	0.10 (TONS/ACRE)	0.10 (TONS/ACRE)	0.10 (TONS/ACRE)							
WOODLAND	4161.1	4161.1 (TONS)	4161.1 (TONS)	4161.1 (TONS)	22519.7 (ACRES)						
346	0.19	0.19 (TONS/ACRE)	0.19 (TONS/ACRE)	0.19 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	303623.3	253875.0	296600.9	342604.4	72953.7	167964.0	170778.0	167964.0	167964.0	1.2	1.2
PERCENT REDUCTION:	8.0	16.4	1.7	-13.2	2.5	76.0	99.7	99.7	99.7	99.7	99.7

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

Basin: Huron River S. METROPOLITAN PARKWAY COUNTY: 41 WAYNE, MICHIGAN

LAND USE	EXISTING POT. REDUCED	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL MGMT.	EXISTING
	GROSS	LOSS TO T. PLOWING	PLOWING	COVER	REDUCTION	TILLAGE:	3RD PL. LAND	SOIL LOSS
	EROSION	AND EXISTING ONLY	ONLY	CROP	TILLAGE	CHISEL PLOW AREA		> T FACTOR
	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)	(ACRES)
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)		(TONS/ACRE)
CROPLAND 1	1423.6	1423.6	1407.8	1423.6	267.4	747.2	1150.0	0.0
346	1.2	1.2	1.2	1.2	.2	.5		0.0
CROPLAND 2	2988.4	2933.7	2947.5	2980.4	559.9	1564.3	4039.9	190.0
346	.7	.7	.7	.7	.1	.1		3.2
CROPLAND 4	701.1	701.1	693.4	701.1	368.0	368.0	1420.0	0.0
346	.5	.5	.5	.5	.3	.3		0.0
CROPLAND 5	17.1	17.1	16.9	17.1	17.1	17.1	30.0	0.0
346	.6	.6	.6	.6	.6	.6		0.0
CROPLAND 6	5122.2	5075.5	5065.4	5122.2	1212.4	2695.5	5549.9	
346	.8	.8	.8	.8	.2	.4		
VINEYARDS AND ORCH.	2.5	2.5 (TONS)	JATER	370.0 (ACRES)				
	10.0	10.0 (ACRES)	AREA ONLY					
	.25	.25 (TONS/ACRE)						
GRASSLAND AND PASTURE	76.1	76.1 (TONS)	OTHER LAND	6206.0 (ACRES)				
	4750.0	4750.0 (ACRES)	JSE AREA					
	.02	.02 (TONS/ACRE)						
WOODLAND	24.4	24.4 (TONS)	MISSING DATA	2160.0 (ACRES)				
	1200.0	1200.0 (ACRES)						
	.02	.02 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	6120.2	6065.5	6054.0	6716.9	1540.7	3279.2	14769.9	
	.4	.4	.4	.5	.1	.2		
PERCENT REDUCTION:	0.0	.9	1.1	-9.7	0.0	74.8	46.4	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3434: HURON RIVER S. METROPOLITAN PLY-MI COUNTY: 62 ALL IN BASIN

LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MBMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	225833.9	202828.9	222089.0	256686.2	220577.6	46225.6	12299.9
	3.3	3.0	3.3	3.3	3.3	7	4.8
CROPLAND 2	20313.2	20266.5	19987.3	22970.9	19886.4	4031.3	199.0
	1.0	1.0	1.0	1.1	1.1	2	3.2
CROPLAND 3	3667.5	3480.0	3604.8	4169.0	3373.4	3667.5	1168.0
	3.2	3.0	3.1	3.6	3.1	3.2	3.2
CROPLAND 4	3962.6	3962.6	3900.1	4477.7	3883.5	2147.9	11478.9
	3.3	3.3	3.3	4.4	3.3	2	0.0
CROPLAND 5	1111.0	1111.0	1093.4	1261.6	1088.4	1111.0	8569.9
	1.1	1.1	1.1	1.1	1.1	1	0.0
CROPLAND 6	29422.4	6000.0	28940.3	33441.0	28760.7	6122.0	1720.0
	17.1	4.0	16.8	19.4	16.7	3.6	17.1
VINEYARDS AND ORCH.	1042.6	542.5 (TONS)	730.0 (ACRES)	730.0 (ACRES)	6300.6 (ACRES)		
	1.43	74 (TONS/ACRE)					
PASTURE AND PASTURE	4814.8	4814.8 (TONS)	58408.4 (ACRES)	104207.2 (ACRES)			
	58408.4	58408.4 (ACRES)	104207.2 (ACRES)				
	58408.4	58408.4 (ACRES)	104207.2 (ACRES)				
WOODLAND	5017.8	5017.8 (TONS)	175482.1 (ACRES)				
	30028.7	30028.7 (ACRES)					
	30028.7	30028.7 (ACRES)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	552647.5	466785.2	543657.3	625108.6	540402.5	134880.9	319452.5
	1.5	1.2	1.4	1.7	1.4	4	5
PERCENT REDUCTION:	0.0	15.5	1.6	-13.1	2.2	74.9	42.2

COUNTY: 01 KODJEE, MICHIGAN (TACOG TOWNSHIP) 0

COUNTY: 01 KODJEE, MICHIGAN (TACOG TOWNSHIP) 0

MCJRN5, MI

RAISIN: RIVER RAISIN

LAND USE	EXISTING POTENTIAL GROSS EROSION		LOSS TO TILLAGE AND EXISTING ONLY		FALL PLOWING ONLY		WINTER COVER CROP		MAXIMUM REDUCTION TILLAGE		REDUCED TILLAGE		SOIL WASH GROUP LAND		EXISTING SOIL LOSS FACTOR	
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)
3	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
4	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
5	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
6	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
7	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
8	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
9	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
10	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
11	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
12	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
13	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
14	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
15	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
16	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
17	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
18	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
19	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
20	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
21	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
22	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
23	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
24	71.3	7.1	30.0	67.5	71.9	7.2	71.3	7.1	71.3	7.1	71.3	7.1	10.0	10.0	7.1	7.1
25	71.3	7.1	30.0	67.5	71.9											

Lake Erie Wastewater Management Study
 Land Management Alternatives : Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

COUNTY: 39 JACKSON, MICHIGAN

WATER: RIVER BASIN

WATER: RIVER

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
CROPLAND 1	21277.0	18952.6	20995.2	21277.0	3084.5	10560.0	4625.0	2660.7
SW 1	4.6	4.1	4.5	4.6	.8	2.3		4.8
CROPLAND 2	481.9	481.9	475.5	481.9	86.2	239.4	711.7	0.0
SW 2	.7	.7	.7	.7	.1	.3		0.0
CROPLAND 4	71.3	71.3	70.4	71.3	35.4	35.4	89.0	0.0
SW 4	.8	.8	.8	.8	.4	.4		0.0
CROPLAND 5	136.2	136.2	134.4	136.2	136.2	136.2	800.6	0.0
SW 5	.2	.2	.2	.2	.2	.2		0.0
CROPLAND 10	3219.0	622.7	3176.3	3219.0	575.6	1598.0	177.9	177.9
SW 10	18.1	3.5	17.9	18.1	3.2	9.0		18.1
CROPLAND	25185.4	20264.7	24051.0	25185.4	6637.9	12577.3	5405.0	
SW	3.9	3.2	3.9	3.9	.7	2.0		
WETLANDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	533.7 (ACRES)				
SW	0.0	0.0 (ACRES)						
WETLANDS AND PASTURE	146.1	146.1 (TONS)	OTHER LAND	1779.2 (ACRES)				
SW	2312.9	2312.9 (ACRES)	USE AREA					
SW	.06	.06 (TONS/ACRE)						
WOODLAND	138.5	138.5 (TONS)	MISSING DATA	36472.7 (ACRES)				
SW	2046.0	2046.0 (ACRES)						
SW	.07	.07 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	111773.3	90179.1	110309.3	124216.6	111773.3	21602.0	56445.7	47236.6
PERCENT REDUCTION:	2.4	1.9	2.3	2.6	.5	1.2		
	0.0	.19.3	1.3	-11.1	0.0	80.7	99.5	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: PIVER RAISIN		COUNTY: AG WASHINGTON, MICHIGAN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING ONLY (TONS/ACRE)	LOSS TO PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	330JP LAND (ACRES)	EXISTING SOIL LOSS > 1" FACTOR (TONS/ACRE)		
1	224595.2	146425.1	220756.0	255309.2	210836.4	44151.2	119016.2	57519.6	27619.7		
2	26682.2	26682.2	26226.1	33331.1	25996.1	5245.2	14139.3	17209.9	0.0		
3	4746.2	4746.2	4665.0	5395.2	4624.5	4746.2	4746.2	1779.0	0.0		
4	3366.2	3366.2	3308.7	3426.3	3279.9	1783.8	1783.8	10099.9	0.0		
5	742.8	742.8	730.1	844.4	723.7	742.8	742.8	3930.0	9.0		
10	35746.2	6900.0	35135.1	40534.3	34829.6	7027.0	18942.4	1860.0	1860.0		
10	19.2	3.7	18.9	21.8	18.7	3.8	10.2	19.2	19.2		
10	295478.8	188862.5	290421.0	336340.9	288292.2	63696.2	159370.7	85389.4	19.2		
10	3.5	2.2	3.4	3.9	3.4	0.7	1.3	1.3	1.3		
10	247.0	233.8 (TONS)	247.0	247.0	247.0	247.0	247.0	247.0	247.0		
10	300.0	300.0 (ACRES)	300.0	300.0	300.0	300.0	300.0	300.0	300.0		
10	0.2	0.78 (TONS/ACRE)	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
10	878.4	878.4 (TONS)	878.4	878.4	878.4	878.4	878.4	878.4	878.4		
10	878.4	878.4 (TONS)	878.4	878.4	878.4	878.4	878.4	878.4	878.4		
10	1357.9	1357.9 (TONS)	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9		
10	9049.9	9049.9 (ACRES)	9049.9	9049.9	9049.9	9049.9	9049.9	9049.9	9049.9		
10	0.15	0.15 (TONS/ACRE)	0.15	0.15	0.15	0.15	0.15	0.15	0.15		
10	324059.5	207626.1	318566.1	368006.5	315419.5	71479.4	173794.2	112359.1	112359.1		
10	2.9	1.6	2.4	3.3	2.8	0.6	1.5	1.5	1.5		
10	0.0	35.9	1.7	-13.6	2.5	77.4	43.9	43.9	43.9		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: RIVER RAISIN			MONROE, MI			COUNTY: 44 LENAVER, MICHIGAN									
LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL P-34 AREA (TONS)	SOIL MGMT. B34UP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)						
210PLAND 1	1116226.0	280134.1	1061997.0	1170456.0	1075594.0	153550.5	474509.3	77568.1	77660.1						
546	14.4	3.7	13.7	15.1	13.8	2.0	6.1		14.4						
210PLAND 2	362152.3	196369.8	344557.9	379746.8	348956.4	49450.9	153951.4	91359.7	45546.4						
546	4.0	2.1	3.8	4.2	3.8	.5	1.7		6.6						
210PLAND 4	96462.6	96462.6	91776.2	101149.1	92947.8	41006.4	41005.4	92515.3	0.0						
546	1.0	1.0	1.0	1.1	1.0	.4	.4		0.0						
210PLAND 5	8513.4	8513.4	8099.8	8927.0	8203.2	8513.4	8513.4	11386.6	0.0						
546	.7	.7	.7	.8	.7	.7	.7		0.0						
210PLAND 10	43357.7	6227.0	60279.6	66435.7	61049.1	8721.3	26933.4	1334.4	1334.4						
546	47.5	4.7	45.2	49.8	45.8	6.5	20.2		47.5						
210PLAND	1446712.0	595706.9	1566710.5	1726714.5	1586710.5	261742.5	704913.3	274256.5							
	6.0	2.2	5.7	6.3	5.8	1.0	2.5								
VINEYARDS AND ORCH.	426.0	387.4 (TONS)	JATER AREA ONLY	9073.7 (ACRES)											
	355.8	355.9 (ACRES)													
	1.20	1.09 (TONS/ACRE)													
GRASSLAND AND PASTURE	3002.9	3002.9 (TONS)	OTHER LAND USE AREA	42373.6 (ACRES)											
	23336.6	23336.6 (ACRES)													
	.13	.13 (TONS/ACRE)													
WOODLAND	5038.2	5038.2 (TONS)	MISSING DATA	5426.4 (ACRES)											
	35938.9	35938.9 (ACRES)													
	.14	.14 (TONS/ACRE)													
SUMMARY TOTAL POTENTIAL GROSS EROSION	1682079.3	613993.1	1600777.6	1763382.2	1621102.7	274631.1	724973.0	333314.3							
	5.0	1.8	4.7	5.2	4.6	.8	2.1								
PERCENT REDUCTION:	0.0	63.5	4.4	-4.8	3.6	83.7	56.9								

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

3151V: RIVER RAISIN		MONROE, MI		COUNTY: 47 FULTON, OHIO			
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	WINTER COVER CROP (TONS) (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS) (TONS/ACRE)	SOIL REENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS BY FACTOR (ACRES) (TONS/ACRE)
ROADLAND	216.7 .8	216.7 .8	205.5 .9	227.2 .9	201.0 .8	266.9 .3	0.0 0.0
VINEYARDS AND ORCH.	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 0.0 0.00	0.0 (ACRES)	0.0 0.0 0.0	266.9 .3	
GRASSLAND AND PASTURE	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 0.0 0.00	0.0 (ACRES)	0.0 0.0 0.0	266.9 .3	
WOODLAND	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 0.0 0.00	0.0 (ACRES)	0.0 0.0 0.0	266.9 .3	
JANUARY TOTAL POTENTIAL GROSS EROSION							
PERCENT REDUCTION:	0.0	0.0	5.2	-4.8	7.2	61.7	

LAND EROSION MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 62 ALL IN BASIN									
COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	
200PLAND 1	1372781.0	460195.0	1314844.0	1461859.0	203681.6	610113.7	137184.4	107708.6	11.9
546	18.0	3.4	9.6	10.7	1.5	4.4			11.9
200PLAND 2	389516.1	223733.6	371452.6	375636.1	55223.1	168443.1	183567.3	45546.4	6.6
546	3.6	2.0	3.4	3.7	.5	1.3			6.6
200PLAND 3	4017.4	4776.2	4732.7	5467.1	4817.4	4817.4	1788.8	10.0	7.1
546	2.7	2.7	2.7	3.1	2.6	2.7			7.1
200PLAND 4	180116.0	180116.0	95360.7	105282.1	96500.0	42908.6	103088.4	0.0	0.0
546	1.0	1.0	.9	1.0	.9	.4			0.0
200PLAND 5	9685.2	9685.2	9170.0	10155.6	9276.0	9685.2	16828.9	0.0	0.0
546	.6	.6	.5	.6	.6	.5			0.0
200PLAND 10	102322.0	13749.7	98591.1	110651.6	99097.7	16323.9	3372.3	3372.3	30.3
546	38.3	4.1	29.2	32.8	29.4	10.1			30.3
200PLAND 1	1979159.3	816176.5	1893351.1	2103447.6	1911555.5	883367.7	371913.0		
546	5.3	2.2	5.1	5.7	.9	2.4			
VINEYARDS AND ORCH.	693.7	641.9 (TONS)	JATER AREA ONLY	11670.1 (ACRES)					
546	744.8	744.8 (ACRES)	.86 (TONS/ACRE)	71224.5 (ACRES)					
300PLAND 1	4187.1	4187.1 (TONS)	OTHER LAND USE AREA	71224.5 (ACRES)					
546	36849.6	36849.6 (ACRES)	.11 (TONS/ACRE)	108604.7 (ACRES)					
400PLAND 1	6611.6	6611.6 (TONS)	MISSING DATA	108604.7 (ACRES)					
546	49258.8	48992.0 (ACRES)	.13 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	2462627.2	1024030.6	2356469.9	2616389.9	425543.7	1106373.3	565570.9		
PERCENT REDUCTION:	4.3	1.8	4.2	4.5	.8	2.0			
PERCENT REDUCTION:	8.0	58.4	4.3	-6.2	3.4	82.7	53.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PAUMEE RIVER		WATERVILLE, OH		COUNTY: OS SEPECA, OHIO					
LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND TILLAGE PLOW AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
CROPLAND 1 SWG	1968.8 5.9	1156.5 3.5	1469.1 5.6	2110.4 6.4	1968.8 5.9	290.8 .9	872.3 2.5	333.6 5.9	333.6 5.9
CROPLAND 2 SWG	961.9 3.6	801.4 3.0	913.2 3.4	1035.0 3.9	961.9 3.6	142.1 .5	426.2 1.6	266.7 3.8	244.6 3.8
CROPLAND 3 SWG	38.1 1.7	36.2 1.7	36.2 1.6	41.0 1.8	39.1 1.7	58.1 1.7	39.1 1.7	22.2 0.0	0.0 0.0
CROPLAND 4 SWG	119.9 .9	119.9 .9	113.8 .9	129.0 1.0	119.9 .9	53.1 .4	53.1 .4	133.4 0.0	0.0 0.0
CROPLAND 5 SWG	6.6 .3	6.6 .3	6.3 .3	7.1 .3	6.6 .3	6.6 .3	6.5 .3	22.2 0.0	0.0 0.0
CROPLAND	3095.3 4.0	2122.5 2.7	2938.6 5.9	3330.5 4.3	3095.3 4.0	530.7 .7	1396.3 1.8	778.3 1.8	
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	JATER AREA ONLY 0.00 (TONS/ACRE)		22.2 (ACRES)				
GRASSLAND AND PASTURE	111.2 4.0	111.2 (ACRES) 4.0 (TONS)	JATER LAND USE AREA 111.2 (ACRES) 4.0 (TONS)		177.9 (ACRES)				
WOODLAND	1.1 44.5	1.1 (TONS) 44.5 (ACRES)	MISSING DATA		4470.1 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION	17918.0 3.3	12290.5 2.3	17011.3 3.1	19278.9 3.6	17918.0 3.3	3079.3 .6	8887.6 1.3	5404.1 1.3	
PERCENT REDUCTION:	0.0	31.4	5.1	-7.6	0.0	82.8	54.9		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MAUMEE RIVER		COUNTY: CO. WOOD, OHIO									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO Y AND EXISTING ONLY (TONS)	SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > Y FACTOR (ACRES)		
CROPLAND 1	24121.1	18018.9	22619.1	25053.0	22619.1	3084.1	9630.8	5821.8	296.5		
346	4.1	3.2	3.9	4.3	3.9	.5	1.7		20.5		
CROPLAND 2	44618.8	39918.8	41840.3	46416.6	41840.3	5556.9	17819.9	24236.1	5199.1		
346	1.8	1.6	1.7	1.9	1.7	.2	.7		4.1		
CROPLAND 3	6612.4	3291.4	6200.6	6878.8	6200.6	6512.4	6612.4	1097.1	1097.1		
346	6.0	3.0	5.7	6.3	5.7	6.0	6.3		6.0		
CROPLAND 4	8123.3	8123.3	7617.5	8450.6	7617.5	3243.4	3243.4	7194.0	0.0		
346	1.1	1.1	1.0	1.2	1.0	.4	.4		0.0		
CROPLAND 5	1192.6	1192.6	1118.3	1240.6	1118.3	1192.6	1192.6	889.6	0.0		
346	1.3	1.3	1.3	1.4	1.3	1.3	1.3		0.0		
CROPLAND 8	37951.6	37951.6	35588.3	39480.8	35588.3	15152.8	15152.8	34248.8	0.0		
346	1.1	1.1	1.0	1.2	1.0	.4	.4		0.0		
CROPLAND	122619.8	109280.6	114984.1	127560.4	114984.1	34762.2	53646.3	73537.4			
346	1.7	1.5	1.6	1.7	1.6	.5	.7				
VINEYARDS AND ORCH.	1.0	1.0 (TONS)	1.0 (TONS)	1.0 (TONS)	1.0 (TONS)	978.5 (ACRES)					
	9.9	9.9 (ACRES)	9.9 (ACRES)	9.9 (ACRES)	9.9 (ACRES)						
	.10	.10 (TONS/ACRE)	.10 (TONS/ACRE)	.10 (TONS/ACRE)	.10 (TONS/ACRE)						
GRASSLAND AND PASTURE	126.9	126.9 (TONS)	126.9 (TONS)	126.9 (TONS)	126.9 (TONS)	5347.4 (ACRES)					
	3301.3	3301.3 (ACRES)	3301.3 (ACRES)	3301.3 (ACRES)	3301.3 (ACRES)						
	.04	.04 (TONS/ACRE)	.04 (TONS/ACRE)	.04 (TONS/ACRE)	.04 (TONS/ACRE)						
WOODLAND	205.3	205.3 (TONS)	205.3 (TONS)	205.3 (TONS)	205.3 (TONS)	1047.7 (ACRES)					
	3348.9	3348.9 (ACRES)	3348.9 (ACRES)	3348.9 (ACRES)	3348.9 (ACRES)						
	.06	.06 (TONS/ACRE)	.06 (TONS/ACRE)	.06 (TONS/ACRE)	.06 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	124557.4	111044.2	116822.1	129562.5	116822.1	55551.4	50680.4	81337.2			
	1.5	1.4	1.4	1.6	1.4	.4	.7				
PERCENT REDUCTION:	0.0	10.8	6.2	-4.2	6.2	71.5	55.1				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WATERVILLE, OHIO

COUNTY: 24 LUTAS, OHIO

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS (TONS/ACRE)	FALL FLOODING ONLY (TONS/ACRE)	WINTER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	2687.7	1213.7	2545.1	2790.4	2596.2	368.0	1103.7	227.3
346	4.3	4.2	4.9	9.7	9.1	1.3	3.3	11.4
CROPLAND 2	1622.8	1622.9	1540.3	1697.5	1579.4	223.8	671.5	9.0
346	.9	.9	.4	.3	.9	.1	.6	5.0
CROPLAND 3	824.8	266.9	766.9	862.7	802.7	824.8	824.8	89.0
346	9.3	3.0	8.6	9.7	9.0	9.3	9.3	9.3
CROPLAND 4	114.7	114.7	109.5	120.0	111.7	47.5	47.5	0.0
346	1.1	1.1	1.0	1.1	1.0	.4	.4	5.0
CROPLAND 5	362.8	362.8	346.2	379.5	353.1	362.8	362.8	0.0
346	1.2	1.2	1.1	1.2	1.2	1.2	1.2	0.0
CROPLAND 8	772.0	772.0	736.5	807.5	751.3	319.4	319.4	0.0
346	.9	.9	.9	1.0	.9	.4	.4	0.0
CROPLAND	6384.9	4353.0	4072.5	6657.4	6194.4	2166.3	3329.7	3639.3
VINEYARDS AND ORCH.	32.8	32.8	32.8	32.8	32.8	32.8	32.8	0.0
346	.47	.47	.47	.47	.47	.47	.47	.47
GRASSLAND AND PASTURE	20.3	20.3	20.3	20.3	20.3	20.3	20.3	0.0
346	.02	.02	.02	.02	.02	.02	.02	.02
WOODLAND	31.7	31.7	31.7	31.7	31.7	31.7	31.7	0.0
346	.03	.03	.03	.03	.03	.03	.03	.03
SUMMARY TOTAL POTENTIAL GROSS EROSION	9489.8	9059.5	9059.5	9920.4	9238.9	3202.7	5024.2	7967.9
PERCENT REDUCTION:	0.0	31.2	4.3	-4.3	2.6	65.4	47.1	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAUMEE RIVER		WATERVILLE/DM		COUNTY: LU HANCOCK, OHIO		EXISTING		EXISTING	
LAND USE	EXISTING POT. REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL MGMT.	SOIL LOSS	SOIL LOSS
	GROSS	LOSS TO T. PLOWING	PLOWING	COVER	TILLAGE	CHISEL PLOW AREA	(ACRES)	> 1 FACTOR	(ACRES)
	(TONS)	AND EXISTING ONLY	ONLY	(TONS)	(TONS)	(TONS)	(ACRES)	(ACRES)	(ACRES)
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)
CROPLAND 1	51593.3	44618.9	86173.0	54799.2	86862.4	11713.5	36882.0	12891.4	12891.4
545	7.1	5.4	6.7	7.4	6.7	2.9	2.9	7.3	7.3
CROPLAND 2	422843.9	297506.7	394905.3	434430.2	402100.5	54251.7	170733.1	112217.6	83706.7
546	3.6	2.7	3.6	3.9	3.6	1.5	1.5	6.5	6.5
CROPLAND 3	6048.6	2550.1	5706.2	6276.9	5751.9	6048.6	6048.6	850.0	850.0
546	7.1	3.0	6.7	7.4	6.8	7.1	7.1	7.1	7.1
CROPLAND 4	53486.7	53486.7	56459.1	55535.0	50862.4	21596.5	21596.5	59772.3	0.0
546	5.9	5.9	5.8	5.9	5.9	5.4	5.4	0.0	0.0
CROPLAND 5	12230.0	11066.8	11537.7	12691.3	11630.0	12230.0	12230.0	8937.9	111.2
546	1.4	1.2	1.3	1.4	1.3	1.4	1.4	11.5	11.5
CROPLAND 8	7608.8	7608.8	7174.1	7495.9	7235.4	3072.2	3072.2	6479.1	0.0
546	1.2	1.2	1.1	1.2	1.1	0.5	0.5	0.0	0.0
VINEYARDS AND ORCH.	593561.3	416630.0	559963.4	615959.7	564443.2	105918.5	250562.4	201148.2	
	3.6	2.1	2.8	3.1	2.8	0.5	1.2		
31ASSLAND AND PASTURE	272.5	272.5	272.5	272.5	22044.2	22044.2	22044.2	227445.5	
	0.4	0.4	0.4	0.4	0.4	0.4	0.4		
40ODLAND	1010.1	1010.1	1010.1	1010.1	2513.1	2513.1	2513.1	2513.1	
	0.6	0.6	0.6	0.6	0.6	0.6	0.6		
SUMMARY TOTAL POTENTIAL GROSS EROSION	601478.1	422573.5	567505.9	624126.3	572335.3	111430.2	254653.4	227445.5	
PERCENT REDUCTION:	0.0	29.7	5.6	-3.4	4.9	81.5	57.7		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

305IN: MAUMEE RIVER		WATERVILLE, OH		COUNTY: 11 WYANDOT, OHIO			
LAND USE	EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER PROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISPL PLOW AREA (TONS/ACRE)	SOIL REML. 5000' LAND AREA (ACRES)	EXISTING 5000' LAND AREA (ACRES)
1 CROPLAND	24633.5	23875.5	24338.9	3316.0	10232.4	2591.1	2779.9
2 CROPLAND	46672.7	45236.6	44903.8	4282.9	19187.1	11920.1	10007.8
3 CROPLAND	510.6	494.9	546.0	510.6	510.5	200.2	3.0
4 CROPLAND	5057.4	4901.8	5407.4	2100.8	2100.8	4315.0	3.0
5 CROPLAND	284.4	275.6	304.1	284.4	284.4	922.5	0.0
6 CROPLAND	191.6	185.7	204.9	79.6	79.6	155.7	3.0
7 CROPLAND	451.0	437.1	482.2	451.0	451.0	400.3	3.0
8 CROPLAND	1.1	1.1	1.2	1.1	1.1	1.1	0.0
9 CROPLAND	77801.2	75407.2	83197.4	76075.7	35045.2	27506.1	1.5
VINEYARDS AND ORCH.	64.6	64.6	64.6	64.6	64.6	64.6	64.6
GRASSLAND AND PASTURE	11.6	11.6	11.6	11.6	11.6	11.6	11.6
WOODLAND	64.1	64.1	64.1	64.1	64.1	64.1	64.1
5/4WAY TOTAL POTENTIAL GROSS EROSION	82474.5	79981.4	84173.7	80574.7	35118.7	25108.2	1.4
PERCENT REDUCTION:	0.0	3.1	-6.9	2.3	83.1	57.0	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAURICE RIVER		COUNTY: 12 PARADISE, NY									
LAND USE	EXISTING POTENTIAL LOSS TO T. PLOPING AND EXISTING ONLY (TONS)	FALL PLOPING ONLY (TONS)	WINTER COVER ONLY (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (ACRES)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE)				
1 CROPLAND	31461.4	21335.2	30217.9	33326.7	4103.7	13305.3	9273.1				
2 CROPLAND	45537.0	30263.5	43745.2	48289.4	5946.1	19279.3	10001.3				
3 CROPLAND	3466.4	3466.4	3325.4	3671.3	3466.4	3466.4	1534.5				
4 CROPLAND	16457.9	16457.9	15807.4	17433.7	15872.5	6960.5	19214.9				
5 CROPLAND	3707.7	3707.7	3561.2	3927.5	3575.8	3707.7	3091.3				
6 CROPLAND	2161.3	2161.3	2075.9	2289.4	2084.4	914.1	2201.7				
7 CROPLAND	102041.7	85392.8	94777.0	106939.3	99183.4	47634.3	53196.3				
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	1223.2	0.0	0.0				
GRASSLAND AND PASTURE	19.0	1000.8	19.0	1000.8	5669.5	0.0	0.0				
WOODLAND	224.3	224.3	224.3	224.3	39946.6	0.0	0.0				
SUMMARY TOTAL POTENTIAL CROSS EROSION	172251.0	143094.4	165459.3	182438.9	42350.2	93005.3	99588.4				
PERCENT REDUCTION:	8.0	16.9	5.3	-5.1	75.4	53.5					

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : TEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PAUMEC RIVER		WATERVILLE, OH		COUNTY: 15 HENRY, OHIO			
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOODING AND EROSION ONLY (TONS/ACRE)	FALL FLOODING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	37190.2	24071.9	34675.6	34410.9	4499.9	14426.1	6671.9
SAG	5.6	3.6	5.2	5.7	.7	2.2	6.4
CROPLAND 2	66435.8	61943.8	64327.2	61470.5	4034.5	25770.5	49015.8
SAG	1.4	1.1	1.4	1.3	.2	.5	0.0
CROPLAND 3	46996.0	43737.6	43218.4	43483.9	46996.0	46996.0	14579.2
SAG	3.2	3.0	3.0	3.3	3.2	3.2	3.2
CROPLAND 4	8853.8	8853.8	8255.1	8192.1	3434.4	3434.4	7917.2
SAG	1.1	1.1	1.3	1.2	.4	.3	0.0
CROPLAND 5	9916.3	6541.2	9245.8	9175.3	9916.3	9916.3	5110.1
SAG	1.9	1.3	1.8	1.8	1.9	1.9	266.9
CROPLAND 6	159413.6	159413.6	148634.7	147500.1	61836.6	61836.6	126774.7
SAG	1.3	1.3	1.2	1.2	.5	.5	0.0
CROPLAND 7	7973.1	4664.7	7434.0	7377.2	7973.1	7973.1	3447.3
SAG	2.2	1.3	2.0	2.2	2.2	2.2	20.6
CROPLAND 8	53795.9	889.6	52158.4	49775.6	6599.1	20467.4	444.8
SAG	120.9	2.0	112.8	111.9	14.6	45.3	120.9
CROPLAND 9	390574.7	314608.2	364165.8	361386.0	149203.9	191220.4	210160.9
SAG	1.8	1.5	1.7	1.7	.7	.9	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	6652.1 (ACRES)			
	0.0	0.0 (ACRES)	AREA ONLY				
	0.0	0.0 (TONS/ACRE)					
GRASSLAND AND PASTURE	335.8	335.8 (TONS)	OTHER LAND	20934.7 (ACRES)			
	6098.5	6098.5 (ACRES)	USE AREA				
	.06	.06 (TONS/ACRE)					
WOODLAND	1216.6	1110.6 (TONS)	MISSING DATA	4151.4 (ACRES)			
	12207.0	12207.0 (ACRES)					
	.10	.09 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	399129.7	321406.6	372249.2	410447.4	153448.5	196215.3	234617.4
	1.7	1.4	1.6	1.6	.6	.3	
PERCENT REDUCTION:	0.0	19.4	6.7	-2.4	7.4	51.6	50.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

SASIN: MAUMEE RIVER		WATERVILLE, OH		COUNTY: 41 HILLSDALE, MICHIGAN															
LAND USE	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)	EXISTING POT. LOSS TO T. PLOWING ONLY (TONS)
CROPLAND 1	161287.0	161287.0	155313.4	175223.4	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0	161287.0
CROPLAND 2	54090.9	54090.9	52067.5	58765.4	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9	54090.9
CROPLAND 3	44703.4	44703.4	43047.7	46566.7	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4	44703.4
CROPLAND 4	2751.6	2751.6	2649.7	2989.4	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6	2751.6
CROPLAND 5	15499.7	15499.7	14925.7	16839.2	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7	15499.7
CROPLAND 6	56.6	56.6	54.5	61.5	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
CROPLAND 7	270389.2	270389.2	268078.5	302447.6	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2
VINEYARDS AND ORCH.	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)	29.1 (TONS)
BRASSLAND AND PASTURE	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)	474.9 (TONS)
WOODLAND	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)	1860.0 (TONS)
SUMMARY TOTAL POTENTIAL GROSS PRODUCTION	270389.2	270389.2	268078.5	302447.6	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2	270389.2
PERCENT REDUCTION:	0.0	2.5	3.7	-4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAUMLEE RIVER		WATERSVILLE, OH										COUNTY: ASHTABULA, OH	
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOUGHING AND EXISTING ONLY (TONS)	FALL PLOUGHING ONLY (TONS)	WINTER COVER CROP (TONS)	REDUCTION TILLAGE (TONS)	REDUCED TILLAGE (TONS)	SOIL LOSS > 1 FACTOR (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)					
CROPLAND 1	44441.6	114577.6	422487.4	466075.9	422487.4	422487.4	30779.4	30779.4					
SW	14.4	3.7	13.7	15.1	13.9	6.1	14.4	14.4					
CROPLAND 2	54462.7	33715.7	56573.8	62351.4	57296.1	25277.7	7739.3	7739.3					
SW	4.9	2.8	4.7	5.2	4.7	2.1	5.3	5.3					
CROPLAND 3	437.0	266.9	415.8	458.2	421.1	437.3	89.0	89.0					
SW	4.9	3.0	4.7	5.1	4.7	4.9	4.9	4.9					
CROPLAND 4	6926.5	6926.5	6590.0	7263.1	6674.2	2944.5	7650.4	0.0					
SW	4.9	4.9	4.9	4.9	4.9	4.9	0.0	0.0					
CROPLAND 5	2825.3	2825.3	2488.0	2962.6	2722.3	2825.3	3202.3	0.0					
SW	4.9	4.9	4.8	4.9	4.9	4.9	0.0	0.0					
CROPLAND 10	14768.3	711.7	14850.8	15485.8	14230.2	2032.9	177.9	177.9					
SW	83.0	4.0	79.0	87.0	86.0	33.3	83.0	83.0					
CROPLAND	528901.4	159023.7	503205.8	554597.2	509629.8	226712.2	33997.3						
VINEYARDS AND ORCH.	71.7	71.7	71.7	71.7	2046.0	2046.0							
SW	89.0	89.0	89.0	89.0	89.0	89.0							
BRASSLAND AND PASTURE	782.0	782.0	782.0	782.0	8006.2	8006.2							
SW	5426.4	5426.4	5426.4	5426.4	5426.4	5426.4							
WOODLAND	2200.9	2200.9	2200.9	2200.9	2579.8	2579.8							
SW	12276.2	12276.2	12276.2	12276.2	12276.2	12276.2							
SUMMARY TOTAL POTENTIAL GROSS EROSION	551076.4	167906.9	524457.4	577595.6	531112.3	238022.8	74368.3						
PERCENT REDUCTION:	7.4	2.3	7.1	7.4	7.1	3.2							
	8.0	69.5	4.0	-4.0	3.6	56.3							

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAUMEE RIVER		COUNTY: AS STEUBEN, INDIANA									
AND USE		WATERVILLE, OH									
EXISTING POT. REDUCE SOIL SPRING	LOSS TO T. PLOWING ONLY	FALL PLOWING ONLY	WINTER COVER CROP	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WGMT. GROUP LAVO AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)				
GROSS EROSION (TONS)	AND EXISTING ONLY (TONS)	(TONS)	(TONS)	(TONS)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)				
1	163487.1	54353.2	155271.7	176633.6	155271.7	23824.8	78866.6	15923.4			
2	11319.5	11319.5	10750.6	12229.6	10750.6	1649.6	5403.3	4358.9			
3	1018.0	1018.0	966.8	1099.4	966.8	1718.0	1018.0	999.8			
4	2558.8	2558.8	2430.2	2764.5	2430.2	1221.5	1221.5	3314.1			
5	366.9	366.9	348.5	396.4	348.5	366.9	366.9	522.7			
9	153.4	153.4	145.7	165.8	145.7	153.4	153.4	177.9			
10	178903.7	69769.8	159913.5	193287.9	169913.5	28239.2	86210.2	25441.9			
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	2401.9					
GRASSLAND AND PASTURE	299.7	299.7	299.7	2757.7	2757.7						
WOODLAND	1368.5	1368.5	1368.5	10763.9	10763.9						
SUMMARY TOTAL POTENTIAL GROSS EROSION											
237769.1	94066.4	225931.2	256769.5	225931.2	33374.2	115710.1	44745.6				
PERCENT REDUCTION:	0.0	60.4	5.0	-8.0	5.0	43.4	51.3				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 46 WILLIAMS, OHIO

WATERVILLE OH

PAUMEE RIVER

LAND USE	EXISTING POT. LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING LOSS TO T. PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MOIST. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE)
CROPLAND 1	408944.1	161967.1	384666.0	397115.2	59144.0	175744.0	48482.0	44923.7
546	8.4	3.3	8.0	8.2	1.2	3.5		8.7
CROPLAND 2	371997.0	171073.8	353551.0	361236.8	53801.2	159866.4	68497.5	14301.0
546	5.4	2.5	5.2	5.3	.8	2.3		7.5
CROPLAND 3	51061.2	48529.3	53593.2	49584.2	51061.2	51061.2	15211.4	15211.4
546	3.4	3.0	3.2	3.3	3.4	3.1		3.4
CROPLAND 4	21092.9	21092.9	21092.9	20882.8	9064.7	9064.7	24245.5	0.0
546	.9	.9	.8	.6	.4	.4		9.9
CROPLAND 5	16987.8	9541.7	16145.5	16446.4	16987.8	16987.8	3429.5	244.9
546	1.8	1.0	1.7	1.7	1.4	1.3		30.9
CROPLAND 6	3284.3	3284.3	3447.1	3189.3	1411.4	1411.4	3123.5	0.0
546	1.1	1.1	1.0	1.0	.5	.5		9.0
CROPLAND 9	7299.0	7299.0	7661.0	7087.9	7299.0	7299.0	6936.7	0.0
546	1.1	1.1	1.1	1.0	1.1	1.1		0.0
CROPLAND 10	59156.4	2046.0	56223.1	57445.3	4555.7	25422.6	711.7	711.7
546	83.1	2.9	79.2	80.7	12.0	33.7		43.1
CROPLAND	939822.7	421940.2	893220.4	912637.9	207325.8	446957.3	176678.2	
	5.3	2.4	5.1	5.2	1.2	2.3		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	9874.3 (ACRES)				
	0.0	0.0 (ACRES)	AREA ONLY					
	0.00	0.00 (TONS/ACRE)						
PASTURE AND PASTURE	708.6	708.6 (TONS)	OTHER LAND	22328.4 (ACRES)				
	7383.5	7383.5 (ACRES)	USE AREA					
	.89	.89 (TONS/ACRE)						
WOODLAND	3553.9	3553.9 (TONS)	MISSING DATA	27132.1 (ACRES)				
	27310.0	27310.0 (ACRES)						
	.13	.13 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EMISSION	1065265.5	480904.0	1012681.0	1034591.8	234740.2	509013.8	238495.4	
	4.5	2.0	4.2	4.3	1.0	2.1		
PERCENT REDUCTION:	0.0	44.0	4.9	2.9	77.6	52.2		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAUMEE RIVER		COUNTY: 47 FULTON, OHIO									
		WATERVILLE, OH									
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY	FALL PLOWING ONLY	WINTER COVER CROP	MAXIMUM REDUCTION YIELDAGE	REDUCED TILLAGE CHISEL PLOW AREA	SOIL MGMT. GROUP LAND AREA	EXISTING SOIL LOSS > 1 FACTOR (ACRES)				EXISTING SOIL LOSS > 1 FACTOR (ACRES)
(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)	(TONS/ACRE)	(TONS)	(TONS)	(TONS/ACRE)	(TONS/ACRE)
1 CROPLAND 546	269172.6 13.8	71286.5 3.7	255249.9 13.1	282167.1 14.5	249680.8 12.8	30630.0 1.6	103028.1 5.3	13481.9 15.2			
2 CROPLAND 546	86088.4 1.7	72427.7 1.4	82310.7 1.6	90990.7 1.4	80514.8 1.6	9877.3 .2	33223.5 .5	51506.6 5.8			
3 CROPLAND 546	52671.6 6.0	26153.6 3.0	49947.2 5.7	55214.4 6.3	48057.4 5.6	52671.6 6.0	52671.5 6.0	9717.9 6.0			
4 CROPLAND 546	41407.7 1.0	41407.7 1.0	39265.9 1.0	43436.7 1.1	38409.2 1.0	15849.1 .4	15849.1 .4	39853.1 0.0			
5 CROPLAND 546	8273.0 1.2	8273.0 1.2	7845.1 1.1	6672.4 1.3	7673.9 1.1	8273.0 1.2	8273.0 1.2	5849.7 0.0			
6 CROPLAND 546	7447.5 1.1	7447.5 1.1	7062.3 1.0	7807.0 1.1	6908.2 1.0	2850.6 .4	2850.6 .4	7027.7 0.0			
7 CROPLAND 546	6176.6 1.1	6176.6 1.1	5857.1 1.1	6474.8 1.2	5729.4 1.1	6176.6 1.1	6176.6 1.1	5426.4 0.0			
8 CROPLAND	471949.4 3.4	233092.6 1.7	447538.2 3.2	494733.1 3.6	437773.7 3.2	126328.2 .9	222072.5 1.6	133963.2			
VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS/ACRE)	5604.5 (ACRES)							
9 GRASSLAND AND PASTURE	225.8 5070.6 .04	225.8 (TONS) 5070.6 (ACRES)	OTHER LAND USE AREA .04 (TONS/ACRE)	16724.1 (ACRES)							
10 WOODLAND	1083.4 12098.2 .09	1083.4 (TONS) 12098.2 (ACRES)	MISSING DATA .09 (TONS/ACRE)	444.8 (ACRES)							
SUMMARY TOTAL POTENTIAL GROSS EROSION											
474607.7 3.0	235070.0 1.5	450126.4 2.9	497456.4 3.2	440334.6 2.8	124001.5 .8	224013.5 1.4	156476.8				
PERCENT REDUCTION: 0.0 50.5 5.2 -4.4 7.2 73.0 52.3											

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS - BUFFALO DISTRICT

COUNTY: 4A NOBLE, INDIANA

WATERVILLE, OH

BAZIN: MAUMEE RIVER

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO T. PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL REPT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	216039.9	4215.1	205796.6	231870.4	204865.4	28867.4	9493.1	13500.7
	14.1	3.2	13.5	15.2	13.4	1.9	6.2	14.1
CROPLAND 2	9629.3	3685.5	9172.7	10334.9	9131.2	1286.7	4233.5	1156.5
	7.2	2.8	6.9	7.7	6.9	1.0	3.2	8.1
CROPLAND 3	1662.1	1662.1	1583.3	1783.9	1576.1	1662.1	1662.1	944.4
	3.7	3.7	3.6	4.0	3.5	3.7	3.7	0.0
CROPLAND 4	5465.2	5465.2	5206.1	5865.7	5182.5	2402.8	2402.8	5782.3
	.9	.9	.9	1.0	.9	.4	.4	0.0
CROPLAND 5	3435.0	3435.0	3272.2	3686.7	3257.4	3435.0	3435.0	2312.9
	1.5	1.5	1.4	1.6	1.4	1.5	1.5	0.0
CROPLAND 10	23931.2	1334.4	22796.6	25684.8	22693.4	3197.7	10521.5	266.9
	89.7	5.0	85.4	96.2	95.0	12.9	37.4	89.7
CROPLAND	260162.7	63797.3	247827.5	279226.4	246706.0	47851.7	117238.1	25442.0
	10.2	2.5	9.7	11.0	9.7	1.6	4.5	
VINEYARDS AND ORCH.	415.5	246.9 (TONS)	4ATER	177.9 (ACRES)				
	89.0	89.0 (ACRES)	AREA ONLY					
	4.67	3.00 (TONS/ACRE)						
PASTURE AND PASTURE	280.5	280.5 (TONS)	OTHER LAND	2498.4 (ACRES)				
	1601.2	1601.2 (ACRES)	JSE AREA					
	.18	.18 (TONS/ACRE)						
WOODLAND	617.9	617.9 (TONS)	MISSING DATA	6138.1 (ACRES)				
	3024.6	3024.6 (ACRES)						
	.20	.20 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	314697.4	78363.9	299851.5	337641.3	298501.7	50748.0	102682.0	36294.9
	8.7	2.2	8.3	9.3	8.2	1.4	5.4	
PERCENT REDUCTION:	0.0	75.1	4.7	-7.3	9.1	83.9	54.7	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

WATERVILLE, OH
COUNTY: 44 DEKALB, INDIANA

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL REHT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	146668.8	25553.8	137998.9	154733.6	18496.9	8362.8	8362.8
343	17.5	3.0	16.5	18.5	2.2	7.3	17.5
CROPLAND 2	253352.4	93652.7	242154.4	271537.2	32422.4	107399.0	30423.6
346	8.2	3.0	7.7	9.7	1.0	5.4	8.4
CROPLAND 3	3112.0	3112.0	2920.3	3263.6	3112.0	3112.9	711.7
345	4.4	4.4	4.1	4.6	4.4	4.4	0.0
CROPLAND 4	8673.9	8673.9	8161.6	9152.6	3619.8	3619.8	9696.4
346	.9	.9	.8	.9	.4	.4	0.0
CROPLAND 5	1385.9	1385.9	1228.8	1377.4	1385.9	1385.9	1957.1
345	.7	.7	.5	.7	.7	.7	0.0
CROPLAND 6	417104.2	132097.5	392472.0	440094.3	589187.7	174641.5	52848.4
346	8.8	2.5	7.5	8.5	7.5	3.6	0.0
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	1512.3 (ACRES)			
0.00	0.00	0.00 (TONS/ACRE)					
GRASSLAND AND PASTURE	489.7	489.7 (TONS)	OTHER LAND	5337.5 (ACRES)			
2757.7	2757.7 (ACRES)	JSE AREA					
.15	.15 (TONS/ACRE)						
WOODLAND	857.7	857.7 (TONS)	MISSING DATA	156239.9 (ACRES)			
6493.9	6493.9 (ACRES)						
.13	.13 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	1484641.8	473261.1	1397239.8	1566224.1	213642.4	631338.9	217581.9
6.8	2.2	6.4	7.2	6.4	1.0	2.3	0.0
PERCENT REDUCTION:	0.0	68.1	5.9	-5.5	6.7	45.6	57.5

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: PAUMotu RIVER		WATERVILLE OH		COUNTY: 53 DEFAANCE, OHIO			
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO PLDOLING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 3000' LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES) (TONS/ACRE)
CROPLAND 1	73518.1	20323.7	67038.0	75466.6	69597.0	10062.2	29307.2
346	12.2	3.4	11.4	12.5	11.5	1.7	4.9
CROPLAND 2	69899.9	47497.4	65647.4	71760.3	66178.9	9568.0	24438.4
346	3.5	2.4	3.3	3.5	3.3	.5	1.4
CROPLAND 3	71982.2	70138.4	67603.1	73498.1	64150.5	71982.2	71982.2
346	3.0	3.0	2.9	3.1	2.9	3.0	3.0
CROPLAND 4	8547.2	8547.2	8927.2	8774.7	8092.2	3477.4	3477.4
346	1.1	1.1	1.0	1.1	1.0	.4	.4
CROPLAND 5	5766.3	3759.3	5415.5	5919.8	5459.4	5766.3	5766.3
346	2.0	1.3	1.8	2.0	1.9	2.0	2.0
CROPLAND 6	28424.9	28424.9	26695.6	29181.4	26911.8	11564.5	11564.5
346	1.2	1.2	1.1	1.2	1.1	.5	.5
CROPLAND 7	62114.7	48540.9	58335.9	63768.0	54808.2	62114.7	62114.7
346	1.5	1.2	1.4	1.5	1.4	1.5	1.5
CROPLAND 8	42819.1	889.6	40214.1	43938.8	40539.8	5861.2	17420.7
346	96.3	2.0	90.4	98.4	91.1	13.2	39.2
CROPLAND 9	363064.4	228521.4	340976.8	372727.7	343737.8	180396.5	230671.4
346	2.9	1.8	2.7	2.9	2.7	1.4	1.3
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	5960.2	(ACRES)	
346	0.0	0.0	0.0	0.0			
PASTURE	491.4	491.4	491.4	16724.1	16724.1	(ACRES)	
346	4536.8	4536.8	4536.8				
WOODLAND	2769.3	2769.3	2769.3	87712.4	87712.4	(ACRES)	
346	21083.0	21083.0	21083.0				
SUMMARY TOTAL POTENTIAL GROSS EROSION	576698.2	364849.7	541918.5	591902.8	546265.2	289123.8	368269.5
PERCENT REDUCTION:	0.0	36.7	6.0	-2.5	5.3	49.9	36.1

LARE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAUMEE RIVER		WATERVILLE, OH		COUNTY: 52 ALLEN, INDIANA					
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. REDUCE LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING GROSS EROSION (TONS/ACRE)
1. CROPLAND	403993.1	141709.6	454880.7	504007.7	454880.7	61863.8	196500.3	33559.2	33559.2
546 1	14.5	4.2	13.6	15.1	13.6	1.9	5.9	14.5	
2. CROPLAND	192107.4	182631.6	180627.2	200135.1	180627.2	24565.3	78030.3	51239.7	51239.7
546 2	3.0	2.9	2.8	3.1	2.6	.4	1.2	3.2	
3. CROPLAND	14703.8	14703.8	13819.4	15311.9	13819.4	14703.8	14703.8	5337.0	0.0
546 3	2.8	2.8	2.6	2.9	2.6	2.6	2.8	0.0	
4. CROPLAND	43920.8	43920.8	41279.0	45737.1	41279.0	17932.5	17932.5	45000.2	0.0
546 4	1.0	1.0	.9	1.0	.5	.4	.4	0.0	
5. CROPLAND	8850.1	8850.1	8317.8	9216.1	8317.8	4850.1	4850.1	6502.9	0.0
546 5	1.3	1.3	1.3	1.4	1.3	1.3	1.3	0.0	
6. CROPLAND	62652.5	62652.5	58884.0	65243.4	58884.0	25437.9	25437.9	48215.2	0.0
546 6	1.3	1.3	1.2	1.4	1.2	.5	.5	0.0	
7. CROPLAND	35677.3	800.6	33531.3	37152.7	33531.3	4560.3	14485.3	355.8	355.8
546 7	108.3	2.5	94.2	134.4	94.2	12.8	40.7	186.3	
8. CROPLAND	841985.0	455269.0	791339.4	976904.0	791339.4	157113.7	355849.0	203502.5	
546 8	4.1	2.2	3.9	4.3	3.9	.8	1.7		
9. VINEYARDS AND ORCH.	248.4	248.4 (TONS)	447.9	11119.7 (ACRES)					
546 9	1.35	1.35 (TONS/ACRE)							
10. GRASSLAND AND PASTURE	1516.5	1516.5 (TONS)	56310.3 (ACRES)						
546 10	.08	.08 (TONS/ACRE)							
11. WOODLAND	2810.5	2810.5 (TONS)	2312.5 (ACRES)						
546 11	.09	.09 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION									
546 12	834280.7	464034.3	803172.4	884417.6	803172.6	163863.5	363706.7	255554.9	
PERCENT REDUCTION:									
546 13	0.0	45.7	6.0	-4.1	6.0	80.8	57.4		

LAKE ERIE WASTE-WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MAUMEE RIVER		COUNTY: ST. PAULING, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS)	EXISTING POTENTIAL LOSS TO T. FLOWING ONLY (TONS)	FILL FLOWING ONLY (TONS)	WATER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL P.-DM AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)		
CROPLAND 1	12544.0	2436.4	11748.4	12743.9	12144.2	1499.1	5297.3	1156.3	622.7		
S46	10.8	2.1	10.2	11.0	10.5	1.6	4.6	14.4			
CROPLAND 2	27703.4	27703.4	25937.4	28144.3	24220.4	4194.1	11493.4	11586.5	0.0		
S46	2.4	2.4	2.3	2.5	2.4	.4	1.0	0.3			
CROPLAND 3	79873.4	72048.2	74781.9	81146.2	77327.6	73873.4	73873.4	27043.2	1245.4		
S46	3.0	2.7	2.4	3.9	2.9	3.0	3.3	8.3			
CROPLAND 4	12132.7	12132.7	11359.3	12326.0	11746.0	5123.8	5123.8	10052.2	3.0		
S46	1.2	1.2	1.1	1.2	1.2	.5	.5	9.0			
CROPLAND 5	35734.9	16014.2	33457.0	36304.4	34596.0	35734.9	35734.9	10674.9	889.6		
S46	3.3	1.5	3.1	3.4	3.2	3.3	3.3	25.2			
CROPLAND 7	6495.2	4738.9	6071.8	6588.5	6278.5	6485.2	6485.2	2046.0	89.0		
S46	3.2	2.3	3.0	3.2	3.1	3.2	3.2	21.6			
CROPLAND 8	52493.0	52493.0	45146.4	53329.5	50819.9	22168.3	22168.3	43055.5	0.0		
S46	1.2	1.2	1.1	1.2	1.2	.5	.5	0.0			
CROPLAND 9	128811.2	124787.1	129600.2	139864.0	124795.6	124811.2	124811.2	103369.0	89.0		
S46	1.2	1.2	1.2	1.3	1.2	1.2	1.2	47.2			
CROPLAND 10	40021.0	1156.5	37449.8	40658.8	38745.4	16901.3	16901.3	444.8	444.8		
S46	98.0	2.6	84.2	91.4	87.1	13.6	33.0	90.0			
CROPLAND	395798.8	313510.6	376568.6	402106.2	383183.6	290349.0	312095.3	203228.5			
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	7650.4	7650.4	7650.4	1.3			
GRASSLAND AND PASTURE	189.9	189.9	189.9	189.9	21972.6	21972.6	21972.6	1.9			
WOODLAND	1913.4	1913.4	1913.4	1913.4	622.7	622.7	622.7	1.3			
SUMMARY TOTAL POTENTIAL GROSS EROSION	398976.3	316465.9	376577.9	405300.7	386327.0	293241.8	315046.5	231290.3			
PERCENT REDUCTION:	0.0	20.7	6.3	-1.6	3.2	26.5	21.0				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MAURICE RIVER		WATERVILLE, OH		COUNTY: 50 PUTNAM, OHIO				
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P.-J. AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	45116.7	27469.8	42724.1	47509.2	42382.3	5539.6	7116.5	5693.3
SWG	6.3	3.9	6.0	6.7	6.0	.8	2.5	6.9
CROPLAND 2	79924.2	79224.4	75685.9	84162.7	75086.4	3990.5	36146.5	11772.1
SWG	2.2	2.2	2.1	2.3	2.1	.3	.9	3.1
CROPLAND 3	100733.4	79795.1	95410.4	106096.3	94647.1	100753.4	25598.4	26598.4
SWG	3.0	3.0	3.6	6.0	3.6	3.6	3.8	3.8
CROPLAND 4	34496.3	34496.3	32666.9	36325.6	32405.6	13981.4	35698.5	0.0
SWG	1.1	1.1	1.1	1.2	1.1	.5	.5	0.0
CROPLAND 5	57214.0	26704.7	54180.0	60248.1	53746.5	57214.0	10592.2	1957.1
SWG	3.1	1.5	2.9	3.2	2.9	3.1	3.1	11.6
CROPLAND 7	280.6	200.6	190.0	211.3	188.5	200.6	89.0	0.0
SWG	2.3	2.3	2.1	2.4	2.1	2.3	2.3	0.0
CROPLAND 8	46538.6	46538.6	44079.6	49006.6	43718.1	18862.2	39961.9	0.0
SWG	1.2	1.2	1.1	1.2	1.1	.5	.5	0.0
CROPLAND 9	122509.6	89823.7	116012.9	129006.3	115044.7	122509.6	75703.1	1067.5
SWG	1.6	1.2	1.5	1.7	1.5	1.6	1.5	32.6
CROPLAND	468753.4	386252.4	460940.8	512566.1	457253.2	529151.3	238898.2	
SWG	2.1	1.6	2.0	2.2	1.9	1.9	1.5	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	AREA ONLY	9343.6 (ACRES)			
SWG	0.0	0.0	0.0	0.0	0.0			
GRASSLAND AND PASTURE	249.4	249.4 (TONS)	OTHER LAND	23158.7 (ACRES)				
SWG	6671.8	6671.8 (ACRES)	JSE AREA					
SWG	.04	.04 (TONS/ACRE)						
WOODLAND	518.7	518.7 (TONS)	MISSING DATA	14411.2 (ACRES)				
SWG	13977.4	13977.4 (ACRES)						
SWG	.04	.04 (TONS/ACRE)						
3-MONTH TOTAL POTENTIAL GROSS EROSION								
	515025.3	408854.5	487756.5	542294.2	483860.8	344332.8	269558.6	
	1.9	1.5	1.8	2.2	1.6	1.3	1.4	
PERCENT REDUCTION:								
	0.0	20.6	5.3	-5.3	6.1	32.3	25.1	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MAUMEE RIVER										WATERVILLE, OH										COUNTY: 55 WELLS, INDIANA																			
LAND USE		EXISTING POT. GROSS EROSION (TONS/ACRE)		LOSS TO T. PLOWING ONLY (TONS/ACRE)		SOIL SPRING LOSS TO T. PLOWING ONLY (TONS/ACRE)		FALL PLOWING ONLY (TONS/ACRE)		WINTER COVER CROP (TONS/ACRE)		MAXIMUM REDUCTION TILLAGE (TONS/ACRE)		REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)		SOIL REPT. GROUP LAND AREA (ACRES)		EXISTING SOIL LOSS S.T. FACTOR (TONS/ACRE)																					
COPLAND		93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4																			
500		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																			
COPLAND		93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4																			
100		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0																			
VINEYARDS AND ORCH.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																			
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																			
GRASSLAND AND PASTURE		6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8																			
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																			
WOODLAND		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																			
0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																			
SUMMARY TOTAL POTENTIAL GROSS EROSION		7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2	7962.2																			
PERCENT REDUCTION:		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0																			

LAKE ERIE WATERSHED MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 56 TOWNS, INDIANA									
WATERSHED: MAUMEE RIVER									
LAND USE	EXISTING GROSS EROSION (TONS)	POTENTIAL GROSS EROSION (TONS)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CRAP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHESEL PLD. AREA (TONS)	SOIL MGMT. STOPP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
1	40211.0	11026.2	30133.7	42436.7	37688.6	4896.5	16025.1	4003.1	3736.2
2	129179.1	72104.2	122505.6	136329.2	121675.6	15730.3	51481.3	24107.5	23843.7
3	517.6	517.6	490.9	546.3	485.2	517.6	517.6	177.9	0.0
4	25464.1	25464.1	24148.7	26873.6	23866.0	10148.1	10148.1	25086.1	0.0
5	2386.5	2386.5	2263.2	2518.5	2236.8	2386.5	2386.5	1601.2	0.0
6	197758.3	112298.6	187542.1	204704.3	185353.0	33679.0	80558.3	54975.9	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	162.5	162.5	162.5	162.5	162.5	162.5	162.5	162.5	0.0
10	133.4	133.4	133.4	133.4	133.4	133.4	133.4	133.4	0.0
11	12	12	12	12	12	12	12	12	0.0
12	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	0.0
13	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	524167.9	298141.5	497147.2	553118.3	49135.0	90203.9	214293.9	161636.2	0.0
16	3.2	1.8	3.1	3.4	3.0	3.0	3.0	3.0	0.0
17	0.0	43.1	5.2	-5.5	6.3	22.4	59.1	59.1	0.0

COUNTY: 57 VAN VERT. OHIO

MC 3771A B31A
WATERVILLE, ME

PAUMEE RIVER

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 56 ALLEN, OHIO									
WATERVILLE, OH									
FALL PLOWING ONLY (TONS)									
WINTER COVER CROP (TONS)									
MAXIMUM REDUCTION TILLAGE (TONS)									
REDUCED TILLAGE: CHISEL PLOW AREA (TONS)									
SOIL MGMT. CHISEL PLOW AREA (TONS)									
EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)									
22150.3									
12.3									
22417.4									
233208.2									
91448.6									
85577.4									
6.7									
56132.4									
2.0									
0.0									
3380.4									
5693.3									
377.5									
266.9									
0.0									
0.0									
444.8									
106.3									
177783.8									
392519.6									
2.2									
9073.7 (ACRES)									
30868.3 (ACRES)									
8717.9 (ACRES)									
MISSING DATA									
2165.1 (TONS)									
21093.0 (ACRES)									
10 (TONS/ACRE)									
956465.5									
1061556.5									
963972.6									
153199.6									
411830.2									
220348.5									
4.9									
4.5									
5.2									
51.5									
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COUNTRY: 59 44032R. 0M10

MOBILE

BASIN: MAUMEE RIVER

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 63 AUGLAIZE, OHIO

WATERVILLE, OH

BAZIN: MAUMEE RIVER

LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
CROPLAND 1	13768.1	30245.7	131568.9	146796.8	19491.7	61520.7	10408.1	10408.1
SWG	13.2	2.9	12.6	14.1	1.9	5.3	13.2	13.2
CROPLAND 2	20444.1	184980.6	195402.7	218018.7	28948.6	91369.9	35550.6	33003.4
SWG	5.6	2.9	5.3	5.4	.8	2.3	6.0	6.0
CROPLAND 3	1563.0	1334.4	1493.9	1666.8	1521.5	1563.0	444.8	444.8
SWG	3.5	3.0	3.4	3.7	3.4	3.3	3.5	3.5
CROPLAND 4	16252.4	16252.4	15533.2	17331.0	15820.9	7263.2	20549.3	0.0
SWG	.8	.8	.8	.8	.4	.4	0.0	0.0
CROPLAND 5	2815.4	2815.4	2690.9	3002.3	2740.7	2815.4	2135.0	3.0
SWG	1.3	1.3	1.3	1.4	1.3	1.3	0.0	0.0
CROPLAND 9	2066.0	1974.5	2233.2	2011.2	2066.0	2066.0	1512.3	0.0
SWG	1.4	1.4	1.3	1.5	1.4	1.4	0.0	0.0
CROPLAND	36488.0	157614.5	346664.2	389018.8	62147.9	166597.1	71700.1	
SWG	5.1	2.2	4.9	5.4	.9	2.3		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	2935.6 (ACRES)			
GRASSLAND AND PASTURE	166.0	166.0 (TONS)	OTHER LAND USE AREA	5515.4 (ACRES)				
WOODLAND	864.9	864.9 (TONS)	MISSING DATA	116089.7 (ACRES)				
SWG	.12	.12 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	884766.4	845726.3	943324.4	861343.9	152796.2	403403.6	197931.0	
PERCENT REDUCTION:	0.0	56.6	4.4	-6.6	2.6	82.7	54.2	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAURICE RIVER		WATERVILLE, OH										COUNTY: 61 SMPPLY, OHIO									
LAND USE	EXISTING POT. LOSS TO FROST (TONS/ACRE)	REDUCE SOIL AND EXISTING, ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHESTNUT P. 3A AREA (TONS/ACRE)	SOIL MGMT. 3100+ LAVO AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)												
CROPLAND 1	22415.6	6582.9	21519.3	24010.0	21917.9	1199.0	10062.3	2312.9	9.7												
546	9.7	2.8	9.3	10.4	9.5	1.4	8.4														
CROPLAND 2	48618.2	18419.3	46516.7	51930.5	47374.1	6491.4	21750.9	6138.1	7.9												
546	7.9	3.0	7.6	8.5	7.7	1.1	3.5														
CROPLAND 4	2037.7	2037.7	1947.5	2172.9	1993.5	310.5	913.5	2568.7	0.5												
546	.4	.4	.7	.4	.7	.3	.5														
CROPLAND 5	776.8	776.8	742.5	828.4	756.2	776.8	776.9	772.7	0.0												
546	1.2	1.2	1.2	1.3	1.2	1.2	1.2														
CROPLAND	74088.3	27811.7	70726.0	78911.8	72035.7	11766.8	33500.5	11742.4													
	6.3	2.4	6.0	6.7	6.1	1.0	2.9														
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	533.7 (ACRES)																	
	0.00	0.0 (ACRES)																			
	0.00	0.00 (TONS/ACRE)																			
GRASSLAND AND PASTURE	17.9	17.9 (TONS)	OTHER LAND USE AREA	533.7 (ACRES)																	
	177.9	177.9 (ACRES)																			
	.10	.10 (TONS/ACRE)																			
WOODLAND	258.9	258.9 (TONS)	MISSING DATA	533.7 (ACRES)																	
	1698.2	1698.2 (ACRES)																			
	.15	.15 (TONS/ACRE)																			
SUMMARY TOTAL POTENTIAL GROSS EROSION	77189.7	73787.0	82293.8	75148.0	12515.9	35101.5	14144.2														
	5.5	2.1	5.2	5.8	5.3	.9	2.3														
PERCENT REDUCTION:	8.0	62.2	4.4	-6.5	2.5	83.8	54.5														

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MAURICE RIVER		COUNTY: 02 ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T PLOUING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)			
1 CROPLAND	3247739.0	1115129.7	308080.0	3422547.0	3698335.0	1382786.0	345199.0	248740.3			
2 CROPLAND	3471857.0	2079033.9	3292560.0	3651917.0	450406.8	1444185.0	322057.9	526429.7			
3 CROPLAND	505374.4	419884.6	477334.6	526911.1	480815.9	505374.4	143191.5	85646.6			
4 CROPLAND	475736.2	450840.4	493346.2	451086.0	194250.7	194252.7	50139.5	0.0			
5 CROPLAND	207113.1	144848.2	195929.1	216646.6	197476.3	207113.1	125167.6	3590.4			
6 CROPLAND	6685.8	4939.5	6261.7	6749.8	6466.9	6685.8	2135.3	89.0			
7 CROPLAND	503811.0	503811.0	473396.6	522161.3	472718.1	200387.1	403720.0	0.0			
8 CROPLAND	354682.8	301090.7	334004.7	366830.9	337493.5	354682.8	251083.3	1601.2			
9 CROPLAND	319447.5	9452.6	301193.7	352300.1	304082.1	43296.0	3351.4	3351.4			
10 CROPLAND	9092446.8	5053926.9	8612400.8	9545468.0	8658574.6	4427602.3	2596745.3	95.3			
VINEYARDS AND ORCH.	892.7	744.0 (TONS)	725.1 (ACRES)	105637.1 (ACRES)							
GRASSLAND AND PASTURE	7992.9	7992.9 (TONS)	323477.1 (ACRES)								
WOODLAND	27489.6	27363.6 (TONS)	640253.1 (ACRES)								
SUMMARY TOTAL POTENTIAL GROSS EROSION											
11081138.9	6179701.7	10494421.3	11631126.4	10554476.1	2969485.1	5418653.0	3634119.4	1.3			

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BOSSIN: PORTAGE RIVER

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: PORTAGE RIVER		JODDVILLE, OH		COUNTY: 06 SANDUSKY, OHIO															
LAND USE	EXISTING POT. REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL REGR.	EXISTING	SOIL LOSS	EXISTING	SOIL REGR.	EXISTING	SOIL LOSS	EXISTING	SOIL REGR.	EXISTING	SOIL LOSS	EXISTING	SOIL LOSS
GROSS	LOSS TO T	ONLY	ONLY	COVER	REDUCTION	TILLAGE:	GROUP LAND	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS	SOIL LOSS
EROSION	AND EXISTING	ONLY	ONLY	CROP	TILLAGE	CHISEL PLOW AREA													
(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)	(ACRES)
(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)
CROPLAND 1	1022.5	602.9	900.5	1007.4	972.9	122.1	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5	120.5
SW 1	0.0	4.7	7.6	6.5	7.6	1.0	3.2	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
CROPLAND 2	2012.4	1090.4	1929.4	2140.1	1914.8	240.3	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4	731.4
SW 2	2.8	2.6	2.6	2.9	2.6	.3	1.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
CROPLAND 3	5397.0	1808.8	5175.5	5739.4	5135.2	5397.0	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9	602.9
SW 3	9.0	3.0	8.6	9.5	8.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
CROPLAND 5	106.8	106.8	102.4	113.5	101.6	106.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
SW 5	1.4	1.4	1.3	1.4	1.3	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
CROPLAND 8	2624.5	2624.5	2516.7	2790.9	2497.2	1057.6	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7	2411.7
SW 8	1.1	1.1	1.0	1.2	1.6	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
CROPLAND 11	11163.2	7041.0	10704.9	11871.3	10621.7	6923.8	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
SW 11	2.8	1.8	2.7	3.0	2.7	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6	118.6
SW 12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	14.8	14.8	14.8	14.8	14.8	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
SW 13	464.6	464.6	464.6	464.6	464.6	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9	434.9
SW 14	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03	.03
WOODLAND	26.2	26.2	26.2	26.2	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW 15	682.0	682.0	682.0	682.0	682.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW 16	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
SUMMARY TOTAL POTENTIAL GROSS EROSION	11204.2	7042.0	10745.9	11912.3	10662.7	6964.8	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2	5100.2
PERCENT REDUCTION:	0.0	36.8	4.1	-6.3	4.4	37.8	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PORTAGE RIVER		COUNTY: 03 WOOD, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL WASH- DOWN LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)			
1 CROPLAND	31233.2	26790.1	29248.2	32491.6	29248.2	3489.8	12472.1	4370.5	696.8	1.7	
546	3.9	3.3	3.6	4.0	3.6	.5	1.3				
2 CROPLAND	90667.9	69447.8	85021.9	84321.2	11292.0	36203.3	37777.1	9331.2	5.2		
546	2.4	1.8	2.3	2.5	.3	1.0					
3 CROPLAND	7138.6	3565.7	6644.1	7426.2	6644.1	7138.6	7138.5	1188.6	6.0		
546	6.0	3.0	5.6	6.2	5.6	6.0	6.3				
4 CROPLAND	5232.2	5232.2	4966.4	5443.0	4966.4	2083.1	2083.1	6779.0	0.0		
546	1.1	1.1	1.0	1.1	1.0	.4	.4		0.0		
5 CROPLAND	4374.5	4287.0	4102.1	458.7	4102.1	4374.5	4374.5	3251.3	154.1	1.6	
546	1.3	1.3	1.3	1.4	1.3	1.3	1.3		1.6		
6 CROPLAND	89084.2	89084.2	83536.9	82673.7	83536.9	35568.5	35568.5	80323.3	0.0	0.0	
546	1.1	1.1	1.0	1.2	1.0	.4	.4		0.0	0.0	
7 CROPLAND	227730.6	198827.2	213549.6	236906.4	213549.6	64352.5	97901.3	135391.3			
546	1.7	1.5	1.4	1.7	1.6	.5	.7				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	1403.6 (ACRES)						
GRASSLAND AND PASTURE	169.0	169.0 (TONS)	OTHER LAND USE AREA	6696.5 (ACRES)							
546	0.03	0.03 (TONS/ACRE)									
WOODLAND	278.5	278.5 (TONS)	MISSING DATA	2955.4 (ACRES)							
546	0.03	0.03 (TONS/ACRE)									
SYNARY TOTAL POTENTIAL GROSS EROSION											
232678.3	203196.8	219209.6	242027.0	218209.6	66069.9	100219.3	152902.3				
1.5	1.3	1.4	1.6	1.4	.4	.7					
PERCENT REDUCTION:	8.0	12.7	6.2	-4.0	6.2	71.6	95.9				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 10 HANCOCK, OHIO

WOODVILLE, OH

BASIN: PORTAGE RIVER

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	75918.2	17044.9	71613.4	72186.2	9739.4	30650.3	4780.0	4774.1
3/6	15.5	3.6	15.0	15.1	2.0	6.4		15.9
CROPLAND 2	172788.1	93673.0	162924.6	164228.0	22157.8	69731.7	31609.7	28388.4
3/6	5.5	3.0	5.2	5.2	.7	2.2		6.0
CROPLAND 3	658.6	296.5	613.8	618.7	650.6	650.6	98.3	98.8
3/6	6.6	3.0	6.2	6.4	6.6	6.6		6.6
CROPLAND 4	12775.5	12775.5	12052.4	12148.8	5156.4	5156.4	15508.3	8.0
3/6	.8	.8	.9	.8	.3	.3		0.0
CROPLAND 5	1268.7	1268.7	1196.9	1206.4	1268.7	1268.7	979.7	0.0
3/6	1.4	1.4	1.4	1.4	1.4	1.4		0.0
CROPLAND 8	24019.1	24019.1	23014.2	23601.5	10021.3	10021.3	20885.3	0.0
3/6	1.2	1.2	1.1	1.1	.5	.5		0.0
CROPLAND	288124.2	149877.7	271815.3	273989.6	48996.2	117481.2	71765.8	
3/6	3.9	2.0	3.7	3.7	.7	1.6		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	622.7 (ACRES)				
3/6	0.0	0.0 (ACRES)	0.00 (TONS/ACRE)					
GRASSLAND AND PASTURE	131.2	131.2 (TONS)	OTHER LAND	3084.8 (ACRES)				
3/6	2332.7	2332.7 (ACRES)	JSE AREA					
	.06	.06 (TONS/ACRE)						
WOODLAND	433.8	433.8 (TONS)	MISSING DATA	4566.8 (ACRES)				
3/6	5574.7	5574.7 (ACRES)						
	.08	.08 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	306245.3	159591.6	288944.6	291251.1	52575.2	125225.0	85640.0	
3/6	3.5	1.8	3.3	3.4	.6	1.4		
PERCENT REDUCTION:	0.0	47.9	5.6	-3.4	4.9	82.8	59.1	

COUNTRY: 42 ALL IN RASIN

LAND USE	EXISTING POTENTIAL SOIL EROSION				FILL		WINTER CROPPED CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (ACRES)	SOIL MGMT. PLOW AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
	GROSS EROSION (TONS)	LOSS TO TILLAGE AND EXISTING ONLY (TONS)	PLACING ONLY (TONS)	PLACING ONLY (TONS)	PLACING ONLY (TONS)	PLACING ONLY (TONS)					
1. CROPLAND	108165.8	44438.1	101842.1	112353.7	7.8	7.9	102447.4	13731.4	43553.3	12942.9	5592.4
2. CROPLAND	265380.4	165438.7	249876.4	275678.4	3.6	3.9	251164.7	33690.0	106744.1	73118.3	37419.4
3. CROPLAND	131846.2	5671.1	124833.3	13440.4	6.6	7.3	12448.0	13186.2	13185.2	1898.4	1890.4
4. CROPLAND	18007.7	18007.7	16958.8	18700.7	0.8	0.9	17055.2	7247.5	7247.5	29287.3	0.0
5. CROPLAND	5749.9	5662.4	5401.3	5940.8	1.3	1.4	5401.2	5749.9	5749.9	4210.7	154.1
6. CROPLAND	116536.0	116536.0	10475.6	121229.0	1.1	1.2	109443.4	46651.0	46651.0	103630.9	0.0
7. CROPLAND	527026.0	355754.0	496077.5	547783.4	2.5	2.6	498168.8	120276.0	223111.0	213120.7	0.0
8. VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	2144.9	0.0	0.0	0.0	0.0
9. GRASSLAND AND PASTURE	315.1	315.1	315.1	315.1	0.03	0.03	10247.4	0.0	0.0	0.0	0.0
10. WOODLAND	730.6	730.6	730.6	730.6	0.05	0.05	4549.8	0.0	0.0	0.0	0.0
11. TOTAL	547151.7	369691.4	515085.0	564659.1	2.1	2.3	517251.9	125705.2	232253.8	245180.0	0.0
PERCENT REDUCTION:	0.0	32.4	5.9	-3.9	5.5	77.0	57.6				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER			PREFLOWT-0M			COUNTY: 02 CRAWFORD, OHIO														
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	
CROPLAND 1	227528.1	127095.9	217099.7	241748.6	220891.8	32233.2	96595.4	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	27376.9	
346	8.3	4.0	7.9	8.8	8.1	1.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	
CROPLAND 2	313984.2	225478.7	299593.2	333608.2	304426.3	44481.1	136059.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	81072.7	
346	3.9	2.8	3.7	4.1	3.8	.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	
CROPLAND 3	19143.8	18173.9	18266.4	20340.3	18385.4	17143.8	19143.8	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	10897.3	
346	1.8	1.7	1.7	1.9	1.7	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
CROPLAND 4	20855.4	20855.4	19599.3	22158.8	20247.1	9037.3	9037.3	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	25388.5	
346	.8	.8	.9	.9	.8	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	
CROPLAND 5	4929.8	4929.8	4763.9	5238.0	4786.1	4929.8	4929.8	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	4791.5	
346	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
CROPLAND 10	24789.6	1974.4	23653.4	26339.0	24066.6	3511.9	10742.2	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	432.4	
346	57.3	4.6	54.7	60.9	55.7	8.1	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	24.9	
CROPLAND	611239.9	398508.1	583216.1	649432.9	593403.3	113337.1	278508.2	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	150541.3	
346	4.1	2.6	3.9	4.3	3.9	.4	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	
VINEYARDS AND ORCH.	25.9	25.9 (TONS)	44.5 (ACRES)	AREA ONLY	2308.0 (ACRES)															
346	.58	.58	.58 (TONS/ACRE)																	
GRASSLAND AND PASTURE	375.3	375.3 (TONS)	OTHER LAND	9162.6 (ACRES)																
346	.08	.08	.08 (TONS/ACRE)																	
WOODLAND	1764.2	1764.2 (TONS)	MISSING DATA	4530.1 (ACRES)																
346	.10	.10	.10 (TONS/ACRE)																	
SUMMARY TOTAL POTENTIAL GROSS EROSION	643596.0	420408.1	614201.9	683674.4	624490.7	121149.1	294492.2	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4	181747.4
PERCENT REDUCTION:	0.0	34.7	4.6	-6.2	2.9	61.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		FREMONT, OH		COUNTY: OS SENECA, OHIO				
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. TILLAGE AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	49557.3	45207.7	45022.7	49559.1	49557.3	59677.5	13005.1	5752.6
SAC	6.9	3.5	6.3	7.4	6.9	3.1	1.0	10.7
CROPLAND 2	345769.2	279724.7	324262.0	345769.2	51063.0	153188.9	94233.5	64447.5
SAC	3.7	3.0	3.5	3.9	.5	1.5	1.5	4.0
CROPLAND 3	22613.8	22613.8	21468.8	22613.8	22613.8	22613.8	14295.0	0.0
SAC	1.6	1.6	1.5	1.7	1.6	1.5	1.5	0.0
CROPLAND 4	20905.3	20905.3	19846.8	22493.1	23905.3	9261.9	22466.8	0.0
SAC	.9	.9	.9	1.0	.9	.4	.4	0.0
CROPLAND 5	3400.7	3400.7	3228.5	3659.0	3400.7	3400.7	3434.8	0.0
SAC	1.0	1.0	.9	1.1	1.0	1.0	1.0	0.0
CROPLAND 6	350.3	350.3	332.6	377.0	350.3	155.2	345.9	0.0
SAC	1.0	1.0	1.0	1.1	1.0	.4	.4	0.0
CROPLAND 10	42657.1	1047.3	40497.2	45896.8	42657.1	18498.7	355.8	355.8
SAC	119.9	3.1	113.8	129.0	119.9	53.1	53.1	119.9
CROPLAND	525253.7	373249.8	498658.6	565146.5	525253.7	247195.3	148136.9	
SAC	3.5	2.5	3.4	3.8	3.5	.7	1.7	
VINEYARDS AND ORCH.	83.9	83.9	83.9	83.9	3039.4			
SAC	61.8	61.8	61.8	61.8				
1.36	1.36	1.36	1.36	1.36				
GRASSLAND AND PASTURE	219.4	219.4	219.4	219.4	10796.0			
SAC	3348.3	3348.3	3348.3	3348.3				
.07	.07	.07	.07	.07				
WOODLAND	2165.4	2165.4	2165.4	2165.4	77783.6			
SAC	18053.5	18053.5	18053.5	18053.5				
.12	.12	.12	.12	.12				
SUMMARY TOTAL POTENTIAL GROSS EROSION	769750.9	548091.9	730958.5	827939.6	158244.7	364169.7	247384.1	
PERCENT REDUCTION:	3.1	2.2	3.0	3.3	.6	1.5	52.7	
9.0	28.4	5.0	-7.6	0.0	79.4			

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LAND MANAGEMENT ALTERNATIVES IN THE LAKE ERIE DRAINAGE BASIN. (U)
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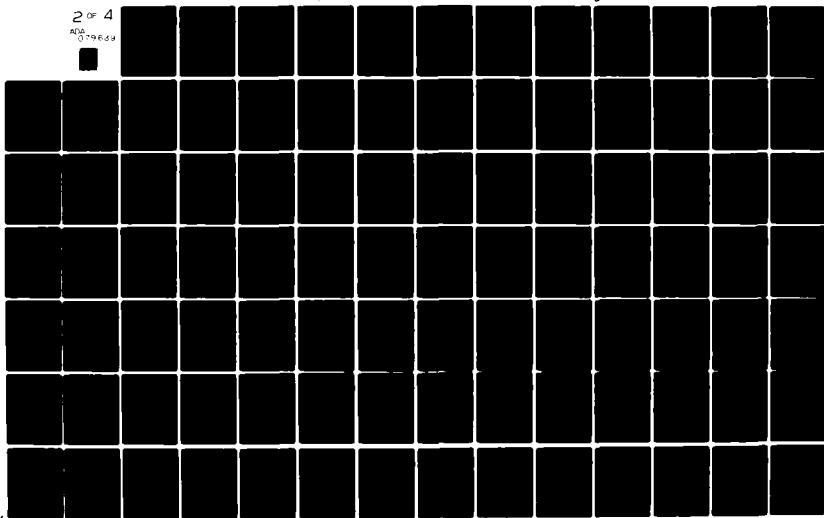
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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER		FREMONT, OH		COUNTY: ON MURON, OHIO															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO F PLOUGHING ONLY (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	FALL PLOUGHING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. 3RD PLW AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO F PLOUGHING ONLY (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	FALL PLOUGHING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. 3RD PLW AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)
CROPLAND 1	6463.2	3385.3	6156.6	6749.7	6182.2	894.1	2707.3	677.1	677.1	6463.2	3385.3	6156.6	6749.7	6182.2	894.1	2707.3	677.1	677.1	6463.2
SW6	9.5	5.0	9.1	10.0	9.1	1.3	4.3	9.5	9.5	9.5	5.0	9.1	10.0	9.1	1.3	4.3	9.5	9.5	9.5
CROPLAND 2	11716.3	10502.0	11160.6	12272.0	11206.9	1620.8	4908.8	1494.1	1494.1	11716.3	10502.0	11160.6	12272.0	11206.9	1620.8	4908.8	1494.1	1494.1	11716.3
SW6	3.4	3.0	3.2	3.5	3.2	.5	1.4	3.4	3.4	3.4	3.0	3.2	3.5	3.2	.5	1.4	3.4	3.4	3.4
CROPLAND 3	95.1	88.9	90.5	99.6	90.5	95.1	95.1	39.3	39.3	95.1	88.9	90.5	99.6	90.5	95.1	95.1	39.3	39.3	95.1
SW6	2.4	2.2	2.3	2.5	2.3	2.4	2.4	3.6	3.6	2.4	2.2	2.3	2.5	2.3	2.4	2.4	3.6	3.6	2.4
CROPLAND 4	1746.0	1746.0	1663.2	1828.4	1670.1	731.5	731.5	1255.3	1255.3	1746.0	1746.0	1663.2	1828.4	1670.1	731.5	731.5	1255.3	1255.3	1746.0
SW6	1.4	1.4	1.3	1.5	1.3	.6	.6	8.8	8.8	1.4	1.4	1.3	1.5	1.3	.6	.6	8.8	8.8	1.4
CROPLAND 5	1540.5	1540.5	1467.5	1613.6	1473.5	1540.5	1540.5	1698.2	1698.2	1540.5	1540.5	1467.5	1613.6	1473.5	1540.5	1540.5	1698.2	1698.2	1540.5
SW6	.9	.9	.9	1.0	.9	.9	.9	8.8	8.8	.9	.9	.9	1.0	.9	.9	.9	8.8	8.8	.9
CROPLAND	21561.1	17262.7	20538.4	22583.7	20623.6	4882.0	9983.3	7156.2	7156.2	21561.1	17262.7	20538.4	22583.7	20623.6	4882.0	9983.3	7156.2	7156.2	21561.1
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	197.7	197.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.7	197.7	0.0	0.0	0.0
GRASSLAND AND PASTURE	2.5	2.5	2.5	2.5	2.5	1779.2	1779.2	0.0	0.0	2.5	2.5	2.5	2.5	2.5	1779.2	1779.2	0.0	0.0	2.5
WOODLAND	52.6	52.6	52.6	52.6	52.6	49.4	49.4	0.0	0.0	52.6	52.6	52.6	52.6	52.6	49.4	49.4	0.0	0.0	52.6
SUMMARY TOTAL POTENTIAL GROSS EROSION	21749.1	17424.3	20728.1	22774.0	20805.8	4967.5	10100.5	8085.3	8085.3	21749.1	17424.3	20728.1	22774.0	20805.8	4967.5	10100.5	8085.3	8085.3	21749.1
PERCENT REDUCTION:	0.0	19.9	9.7	-4.7	4.3	77.2	53.5			0.0	19.9	9.7	-4.7	4.3	77.2	53.5			0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER										CREWATION										COUNTY: 36 SANDUSKY, OHIO									
LAND USE		EXISTING POT. LOSS TO FLOWING AND EXISTING ONLY (TONS)		SOIL SPRING ONLY (TONS)		FALL PLOWING ONLY (TONS)		WINTER COVER CROP (TONS)		MAXIMUM REDUCTION TILLAGE (TONS)		REDUCED TILLAGE: CHISEL PLOW AREA (TONS)		SOIL MGMT. GROUP LAND AREA (ACRES)		EXISTING SOIL LOSS FACTOR (TONS/ACRE)													
CROPLAND 1	11406.7 9.3	5547.2 4.5	10939.5 9.2	12130.3 8.4	1362.0 1.1	4596.7 3.7	1230.6 3.3	CROPLAND 2	11305.0 1.3	11260.1 1.4	10756.6 1.3	1349.8 .2	4553.7 .3	163.1 4.6	CROPLAND 3	6237.5 9.0	2090.5 3.0	5941.5 9.6	6633.2 9.3	5935.0 8.5	6237.5 9.3	696.8 9.0							
CROPLAND 4	193.7 1.0	193.7 1.0	184.7 1.1	206.0 1.1	184.3 1.0	78.0 .4	187.4 0.0	CROPLAND 5	403.7 1.4	403.7 1.4	384.1 1.3	403.7 1.4	403.7 1.4	299.0 0.0	CROPLAND 6	2302.9 1.1	2302.9 1.1	2208.4 1.0	2449.0 1.2	2191.2 1.0	928.1 .4	2115.2 0.3							
CROPLAND	31849.5 2.4	21758.2 1.7	30542.1 2.3	33869.9 2.6	30304.6 2.3	16799.7 1.3	13133.6	VINEYARDS AND ORCH.	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	291.6 (ACRES)			GRASSLAND AND PASTURE	38.5 721.5 .05	38.5 (TONS) 721.5 (ACRES) .05 (TONS/ACRE)	38.5 (TONS) 721.5 (ACRES) .05 (TONS/ACRE)	766.0 (ACRES)										
WOODLAND	59.3 1015.6 .06	59.3 (TONS) 1015.6 (ACRES) .06 (TONS/ACRE)	59.3 (TONS) 1015.6 (ACRES) .06 (TONS/ACRE)	59.3 (TONS) 1015.6 (ACRES) .06 (TONS/ACRE)	187.8 (ACRES)			SUMMARY TOTAL POTENTIAL GROSS EROSION	32350.8 2.1	22132.0 1.3	31026.8 2.1	34396.7 2.3	30786.3 2.0	17110.3 1.1	15856.3	PERCENT REDUCTION:	0.0	31.4	4.1	-6.3	4.8	67.3	47.1						

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SAROUSKY RIVER		COUNTY: 10 HANCOCK, OHIO									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO TILLAGE ONLY (TONS/ACRE)	SOIL PLOUING ONLY (TONS/ACRE)	FALL PLOUING ONLY (TONS/ACRE)	WINTER COVER ONLY (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: MISCELLANEOUS (TONS/ACRE)	SOIL WASH. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)		
CROPLAND 2	512.3	512.3	983.3	531.6	487.2	65.7	206.9	219.9	0.0		
346	2.3	2.3	2.2	2.4	2.2	.3	.3		0.0		
CROPLAND 8	26.4	26.4	24.9	27.4	25.1	18.7	10.7	22.2	0.0		
346	1.2	1.2	1.1	1.2	1.1	.5	.5		0.0		
CROPLAND	538.7	538.7	508.2	559.0	512.3	76.4	217.5	242.1			
	2.2	2.2	2.1	2.3	2.1	.3	.3				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY			0.0 (ACRES)					
	0.00	0.00 (TONS/ACRE)									
GRASSLAND AND PASTURE	0.0	0.0 (TONS)	OTHER LAND USE AREA			22.2 (ACRES)					
	0.00	0.00 (TONS/ACRE)									
WOODLAND	1.7	1.7 (TONS)	MISSING DATA			0.0 (ACRES)					
	39.5	39.5 (ACRES)									
	.04	.04 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	540.4	540.4	509.3	560.7	514.0	78.1	219.3	281.6			
	1.9	1.9	1.8	2.0	1.8	.3	.3				
PERCENT REDUCTION:	0.0	0.0	5.6	-3.8	9.9	85.5	59.4				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER		PREFRONT, CM		COUNTY: 11 WYANDOT, ONT									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL WASH LOSS TO FLOWING AREA (ACRES)	EXISTING SOIL LOSS TO FLOWING AREA (ACRES)					
CROPLAND 1	280389.6	2219.1	271762.1	299431.2	37744.7	116469.0	22723.7	22723.7					
SWG	12.3	3.6	12.0	13.2	1.7	5.1		12.3					
CROPLAND 2	170125.9	130145.3	164891.1	141903.7	22901.6	70667.5	40945.3	37130.9					
SWG	3.0	2.9	3.7	4.3	.5	1.5		4.1					
CROPLAND 3	126680.8	11420.1	12271.3	13537.3	12368.6	12660.8	3356.2	3911.7					
SWG	3.2	3.0	3.1	3.6	3.1	3.2		3.2					
CROPLAND 4	24237.3	24237.3	23401.5	25915.2	10067.9	10067.9	26190.5	0.0					
SWG	.9	.9	.9	1.0	.9	.9		0.0					
CROPLAND 5	12405.9	11013.0	12024.2	13264.7	12119.6	12405.9	9273.1	311.4					
SWG	1.5	1.3	1.5	1.6	1.5	1.5		7.5					
CROPLAND 6	796.4	796.4	771.0	851.5	778.0	330.8	554.9	0.0					
SWG	1.2	1.2	1.2	1.3	1.2	.5		0.0					
CROPLAND 7	5813.6	5813.6	5634.7	6216.1	5679.4	5813.6	5055.9	0.0					
SWG	1.1	1.1	1.1	1.2	1.1	1.1		0.0					
CROPLAND 8	119291.8	3617.6	115621.2	127550.5	16058.9	49532.0	1116.3	1116.3					
SWG	106.8	3.2	103.5	114.2	14.4	44.4		106.8					
CROPLAND 9	625721.3	269702.4	506468.0	669040.2	117983.7	277967.3	112917.0						
SWG	5.5	2.4	5.4	5.9	5.4	2.5							
VINEYARDS AND ORCH.	161.2	151.0 (TONS)	151.0 (TONS)	151.0 (TONS)	4141.5 (ACRES)								
SWG	66.7	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)									
GRASSLAND AND PASTURE	422.1	422.1 (TONS)	422.1 (TONS)	422.1 (TONS)	10212.8 (ACRES)								
SWG	3466.9	3466.9 (ACRES)	3466.9 (ACRES)	3466.9 (ACRES)									
WOODLAND	2080.8	2080.8 (TONS)	2080.8 (TONS)	2080.8 (TONS)	101868.8 (ACRES)								
SWG	11416.2	11416.2 (ACRES)	11416.2 (ACRES)	11416.2 (ACRES)									
SWG	.18	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION													
1129086.9	489355.2	104414.9	1206837.0	1103062.7	216765.4	504205.5	223735.5						
PERCENT REDUCTION:	4.9	2.1	4.8	5.3	4.8	2.2							
	8.0	56.7	3.1	-6.9	2.3	88.8	95.3						

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		FARMINGTON		COUNTY: 12 HARDIN, OHIO															
LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO SOIL AND EXISTING ONLY (TONS/ACRE)	REDUCE SOIL PLOWING ONLY (TONS)	SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)										
CROPLAND 1	13710.9	3700.6	13176.6	14532.2	13230.8	1789.4	5002.3	1370.8	1221.2										
SWG	9.9	2.7	9.6	10.5	9.6	1.3	0.2	11.0											
CROPLAND 2	26784.8	16312.4	25726.1	26372.8	25832.0	3093.7	11329.3	7161.1	2513.1										
SWG	3.7	2.3	3.5	4.0	3.6	.5	1.5	7.2											
CROPLAND 3	668.0	668.0	641.6	707.6	644.2	668.0	669.2	289.1	0.0										
SWG	2.3	2.3	2.2	2.4	2.2	2.3	2.3		0.0										
CROPLAND 4	4084.3	4084.3	3922.9	4326.4	3939.3	1727.4	1727.4	5200.0	0.0										
SWG	.8	.8	.8	.5	.8	.3	.3		0.0										
CROPLAND 5	399.2	399.2	383.4	422.8	385.0	399.2	399.2	289.1	0.0										
SWG	1.4	1.4	1.3	1.5	1.3	1.4	1.4		0.0										
CROPLAND 6	69.4	69.4	66.8	73.7	67.1	29.4	29.4	89.0	0.0										
SWG	.8	.8	.8	.8	.8	.3	.3		0.0										
CROPLAND 9	73.1	73.1	70.3	77.5	70.5	73.1	73.1	66.7	0.0										
SWG	1.1	1.1	1.1	1.2	1.1	1.1	1.1		0.0										
CROPLAND	45797.9	25315.2	43987.7	46513.0	44160.6	8180.2	20027.1	10077.9	1221.2										
SWG	3.2	1.7	3.0	3.4	3.1	.0	1.0		11.0										
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	355.8 (ACRES)															
SWG	0.0	0.0 (ACRES)	0.0 (TONS/ACRE)																
PASTURE	10.5	10.5 (TONS)	OTHER LAND	845.1 (ACRES)															
SWG	177.9	177.9 (ACRES)	JSE AREA																
SWG	.06	.06 (TONS/ACRE)																	
WOODLAND	51.6	51.6 (TONS)	MISSING DATA	11875.9 (ACRES)															
SWG	1023.0	1023.0 (ACRES)																	
SWG	.05	.05 (TONS/ACRE)																	
SUMMARY TOTAL POTENTIAL GROSS EROSION																			
80596.9	44599.3	77415.5	85368.5	77713.4	14405.5	35305.3	27554.5												
2.9	1.6	2.4	3.1	2.8	.5	1.1													
PERCENT REDUCTION:																			
0.0	44.7	3.9	-5.9	3.6	42.0	56.2													

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER		SCENARIO: 15 PARTIAL ONTO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLANTING AND EXISTING ONLY (TONS)	FALL PLANTING ONLY (TONS)	WINTER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 3RD PLW AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)			
CROPLAND	9611.4	2735.5	9218.4	10218.8	1179.1	3859.9	911.4	911.4			
SAG 1	10.5	3.0	10.1	11.2	1.3	4.2	10.5	10.5			
CROPLAND	4998.6	4998.6	4794.2	4757.0	613.2	2005.3	2001.6	0.0			
SAG 2	2.5	2.5	2.4	2.7	.3	1.0	0.0	0.0			
CROPLAND	17070.9	7605.4	16372.9	18149.8	17070.9	17070.9	2335.1	2335.1			
SAG 3	7.3	3.0	7.0	7.4	7.3	7.3	7.3	7.3			
CROPLAND	3954.2	3954.2	3792.5	4204.1	1587.6	1587.6	4314.3	0.0			
SAG 4	.9	.9	.9	1.0	.4	.4	0.0	0.0			
CROPLAND	5631.9	2514.1	5401.6	5987.8	5631.9	5631.9	978.5	711.7			
SAG 5	5.8	2.6	5.5	6.1	5.5	5.3	7.4	7.4			
CROPLAND	160.1	160.1	153.5	170.2	152.3	64.3	133.4	0.0			
SAG 6	1.2	1.2	1.2	1.3	.5	.5	0.0	0.0			
CROPLAND	211.9	211.9	203.3	225.3	211.7	211.9	177.9	0.0			
SAG 9	1.2	1.2	1.1	1.3	1.2	1.2	3.0	3.0			
CROPLAND	1693.8	66.7	1624.6	1800.9	207.8	680.0	22.2	22.2			
SAG 10	76.3	3.0	75.2	81.1	9.4	33.5	76.3	76.3			
CROPLAND	4332.8	2164.5	41561.0	46871.4	25566.7	31112.4	10475.0				
VINEYARDS AND ORCH.	0.0	0.0	0.0	66.7	66.7	2.4					
GRASSLAND AND PASTURE	9.4	9.4	711.7	711.7	711.7						
WOODLAND	32.2	32.2	27710.4	27710.4	27710.4						
50% TOTAL POTENTIAL GROSS EROSION	148112.5	74058.9	142062.2	157464.1	90860.5	105382.9	39185.9				
PERCENT REDUCTION:	0.0	50.0	4.1	-6.3	38.7	28.2					

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		FRENCHTOWN		COUNTY: IN RICHLAND, OHIO						
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POTENTIAL LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL 3-04 AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	
CROPLAND 1	10931.1	8517.7	10797.8	12130.8	10931.1	2132.9	5990.9	1756.9	1756.9	
SW6	6.2	4.8	6.1	6.9	6.2	1.2	3.4	6.2	6.2	
CROPLAND 2	13655.1	10855.9	13486.6	15153.8	13655.1	2664.4	7493.7	3716.0	3536.1	
SW5	3.7	2.9	3.6	4.1	3.7	.7	2.8	3.4	3.4	
CROPLAND 3	1129.0	1129.0	1115.2	1252.9	1129.0	1129.0	1129.0	934.1	0.0	
SW6	1.2	1.2	1.2	1.3	1.2	1.2	1.2	0.8	0.8	
CROPLAND 4	628.1	628.1	620.5	697.1	628.1	344.7	344.7	1280.9	0.0	
SW5	.5	.5	.5	.6	.5	.3	.3	0.8	0.8	
CROPLAND 5	112.2	112.2	110.4	124.5	112.2	112.2	112.2	155.7	0.0	
SW6	.7	.7	.7	.8	.7	.7	.7	0.8	0.8	
CROPLAND 10	10932.3	622.7	10799.0	12132.2	10932.3	2133.1	5990.9	155.7	155.7	
SW6	78.2	4.0	69.4	77.9	78.2	13.7	39.3	78.2	78.2	
CROPLAND 11	37387.8	21865.6	36931.9	41491.3	37387.8	6516.3	21077.3	7317.3		
SW6	4.7	2.8	4.7	5.2	4.7	1.1	2.7			
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	311.4 (ACRES)					
	0.0	0.0 (ACRES)	AREA ONLY							
	0.0	0.0 (TONS/ACRE)								
GRASSLAND AND PASTURE	35.5	35.5 (TONS)	OTHER LAND		778.4 (ACRES)					
	449.8	449.8 (ACRES)	USE AREA							
	.08	.08 (TONS/ACRE)								
WOODLAND	139.7	139.7 (TONS)	MISSING DATA		177.9 (ACRES)					
	1112.0	1112.0 (ACRES)								
	.13	.13 (TONS/ACRE)								
SUMMARY TOTAL POTENTIAL GROSS EROSION										
	38268.3	22454.7	37803.9	42446.9	38268.3	8454.7	21632.1	9652.0		
	4.0	2.3	3.9	4.4	4.0	.9	2.2			
PERCENT REDUCTION:										
	0.0	41.3	1.2	-10.9	0.0	76.9	43.9			

LAKE ERIE WASTE-WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PLST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

BASIN: SANDUSKY RIVER

PRECEDENCE

LAND USE	EXISTING POTENTIAL GROSS LOSS TO FLOODING AND EROSION ONLY (TONS)	FALL FLOODING ONLY (TONS)	WINTER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE (TONS)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
346 1	649686.1	27836.9	624172.3	634712.4	90561.1	277706.2
346 2	89851.3	689769.5	859239.9	961208.9	883449.9	128253.1
346 3	79618.9	63589.6	76208.1	85051.9	77612.9	79618.9
346 4	76600.2	76600.2	73422.6	81429.6	75214.9	32836.2
346 5	28823.9	24313.1	27706.3	30739.7	28020.8	28823.9
346 6	3705.8	3705.8	3558.2	3948.8	3564.2	1418.4
346 7	6098.7	6098.7	5908.2	6318.9	5951.7	6098.7
346 8	199364.6	7368.7	192195.4	213719.2	195806.7	20218.9
346 9	192673.5	114986.5	1862411.6	2076707.6	1904173.5	395921.2
346 10	270.9	260.7 (TONS)	4.0	10712.0 (ACRES)	1.7	465396.9
346 11	173.0	173.0 (ACRES)	1.51 (TONS/ACRE)	35874.8 (ACRES)	1.7	465396.9
346 12	1113.2	1113.2 (TONS)	35874.8 (ACRES)	228183.6 (ACRES)	1.7	465396.9
346 13	12782.7	12782.7 (ACRES)	35874.8 (ACRES)	228183.6 (ACRES)	1.7	465396.9
346 14	6397.6	6397.6 (TONS)	228183.6 (ACRES)	228183.6 (ACRES)	1.7	465396.9
346 15	52188.5	52188.5 (ACRES)	228183.6 (ACRES)	228183.6 (ACRES)	1.7	465396.9
346 16	12	12 (TONS/ACRE)	228183.6 (ACRES)	228183.6 (ACRES)	1.7	465396.9
346 17	1655505.1	2674484.4	2980948.3	2734208.0	577262.4	1302276.9
346 18	2789266.7	1655505.1	2674484.4	2980948.3	577262.4	1302276.9
346 19	3.7	2.2	3.5	3.6	1.7	465396.9
346 20	0.0	40.6	4.1	-6.9	2.0	79.3
346 21	0.0	40.6	4.1	-6.9	2.0	79.3
346 22	0.0	40.6	4.1	-6.9	2.0	79.3
346 23	0.0	40.6	4.1	-6.9	2.0	79.3
346 24	0.0	40.6	4.1	-6.9	2.0	79.3
346 25	0.0	40.6	4.1	-6.9	2.0	79.3
346 26	0.0	40.6	4.1	-6.9	2.0	79.3
346 27	0.0	40.6	4.1	-6.9	2.0	79.3
346 28	0.0	40.6	4.1	-6.9	2.0	79.3
346 29	0.0	40.6	4.1	-6.9	2.0	79.3
346 30	0.0	40.6	4.1	-6.9	2.0	79.3
346 31	0.0	40.6	4.1	-6.9	2.0	79.3
346 32	0.0	40.6	4.1	-6.9	2.0	79.3
346 33	0.0	40.6	4.1	-6.9	2.0	79.3
346 34	0.0	40.6	4.1	-6.9	2.0	79.3
346 35	0.0	40.6	4.1	-6.9	2.0	79.3
346 36	0.0	40.6	4.1	-6.9	2.0	79.3
346 37	0.0	40.6	4.1	-6.9	2.0	79.3
346 38	0.0	40.6	4.1	-6.9	2.0	79.3
346 39	0.0	40.6	4.1	-6.9	2.0	79.3
346 40	0.0	40.6	4.1	-6.9	2.0	79.3
346 41	0.0	40.6	4.1	-6.9	2.0	79.3
346 42	0.0	40.6	4.1	-6.9	2.0	79.3
346 43	0.0	40.6	4.1	-6.9	2.0	79.3
346 44	0.0	40.6	4.1	-6.9	2.0	79.3
346 45	0.0	40.6	4.1	-6.9	2.0	79.3
346 46	0.0	40.6	4.1	-6.9	2.0	79.3
346 47	0.0	40.6	4.1	-6.9	2.0	79.3
346 48	0.0	40.6	4.1	-6.9	2.0	79.3
346 49	0.0	40.6	4.1	-6.9	2.0	79.3
346 50	0.0	40.6	4.1	-6.9	2.0	79.3
346 51	0.0	40.6	4.1	-6.9	2.0	79.3
346 52	0.0	40.6	4.1	-6.9	2.0	79.3
346 53	0.0	40.6	4.1	-6.9	2.0	79.3
346 54	0.0	40.6	4.1	-6.9	2.0	79.3
346 55	0.0	40.6	4.1	-6.9	2.0	79.3
346 56	0.0	40.6	4.1	-6.9	2.0	79.3
346 57	0.0	40.6	4.1	-6.9	2.0	79.3
346 58	0.0	40.6	4.1	-6.9	2.0	79.3
346 59	0.0	40.6	4.1	-6.9	2.0	79.3
346 60	0.0	40.6	4.1	-6.9	2.0	79.3
346 61	0.0	40.6	4.1	-6.9	2.0	79.3
346 62	0.0	40.6	4.1	-6.9	2.0	79.3
346 63	0.0	40.6	4.1	-6.9	2.0	79.3
346 64	0.0	40.6	4.1	-6.9	2.0	79.3
346 65	0.0	40.6	4.1	-6.9	2.0	79.3
346 66	0.0	40.6	4.1	-6.9	2.0	79.3
346 67	0.0	40.6	4.1	-6.9	2.0	79.3
346 68	0.0	40.6	4.1	-6.9	2.0	79.3
346 69	0.0	40.6	4.1	-6.9	2.0	79.3
346 70	0.0	40.6	4.1	-6.9	2.0	79.3
346 71	0.0	40.6	4.1	-6.9	2.0	79.3
346 72	0.0	40.6	4.1	-6.9	2.0	79.3
346 73	0.0	40.6	4.1	-6.9	2.0	79.3
346 74	0.0	40.6	4.1	-6.9	2.0	79.3
346 75	0.0	40.6	4.1	-6.9	2.0	79.3
346 76	0.0	40.6	4.1	-6.9	2.0	79.3
346 77	0.0	40.6	4.1	-6.9	2.0	79.3
346 78	0.0	40.6	4.1	-6.9	2.0	79.3
346 79	0.0	40.6	4.1	-6.9	2.0	79.3
346 80	0.0	40.6	4.1	-6.9	2.0	79.3
346 81	0.0	40.6	4.1	-6.9	2.0	79.3
346 82	0.0	40.6	4.1	-6.9	2.0	79.3
346 83	0.0	40.6	4.1	-6.9	2.0	79.3
346 84	0.0	40.6	4.1	-6.9	2.0	79.3
346 85	0.0	40.6	4.1	-6.9	2.0	79.3
346 86	0.0	40.6	4.1	-6.9	2.0	79.3
346 87	0.0	40.6	4.1	-6.9	2.0	79.3
346 88	0.0	40.6	4.1	-6.9	2.0	79.3
346 89	0.0	40.6	4.1	-6.9	2.0	79.3
346 90	0.0	40.6	4.1	-6.9	2.0	79.3
346 91	0.0	40.6	4.1	-6.9	2.0	79.3
346 92	0.0	40.6	4.1	-6.9	2.0	79.3
346 93	0.0	40.6	4.1	-6.9	2.0	79.3
346 94	0.0	40.6	4.1	-6.9	2.0	79.3
346 95	0.0	40.6	4.1	-6.9	2.0	79.3
346 96	0.0	40.6	4.1	-6.9	2.0	79.3
346 97	0.0	40.6	4.1	-6.9	2.0	79.3
346 98	0.0	40.6	4.1	-6.9	2.0	79.3
346 99	0.0	40.6	4.1	-6.9	2.0	79.3
346 100	0.0	40.6	4.1	-6.9	2.0	79.3

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER				COUNTY: 02 CRAWFORD, OHIO									
LAND USE		EXISTING POTENTIAL GROSS EROSION (TONS)	LOSS TO FLOWING AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)			
1 CROPLAND	1	184434.7	102286.6	175931.4	195561.8	179055.2	26128.2	79921.5	22385.2	22385.2	22385.2		
2 CROPLAND	2	247525.8	177914.3	236160.9	262996.2	240306.4	35066.2	107261.1	60269.6	43028.4	43028.4		
3 CROPLAND	3	13647.0	12677.2	13021.5	14530.0	13249.0	13547.0	13647.2	7535.5	155.7	155.7		
4 CROPLAND	4	15169.4	15169.4	14474.2	16117.5	14727.0	6573.4	6573.4	13625.1	0.0	0.0		
5 CROPLAND	5	4181.3	4181.3	3949.7	4442.7	4039.4	4181.3	4181.3	3330.7	0.0	0.0		
6 CROPLAND	6	24235.1	1934.6	23124.3	25749.8	23528.3	3433.3	10501.3	422.5	422.5	422.5		
7 CROPLAND	7	57.4	4.6	54.7	60.9	55.7	8.1	24.9	57.4	57.4	57.4		
8 CROPLAND	8	489193.3	314163.6	466772.0	519768.0	474925.3	89029.4	222806.3	113128.5				
9 VINEYARDS AND ORCH.	9	25.9	25.9	25.9	25.9	2041.1	(ACRES)						
10 GRASSLAND AND PASTURE	10	358.2	358.2	358.2	358.2	7571.3	(ACRES)						
11 WOODLAND	11	1543.4	1543.4	1543.4	1543.4	17976.5	(ACRES)						
SUMMARY TOTAL POTENTIAL GROSS FERTILIZATION													
		519620.1	334433.6	495697.7	551969.0	504524.1	96235.0	237013.1	105433.5				
		3.6	2.3	3.4	5.4	3.5	.7	1.5					
PERCENT REDUCTION:		0.0	35.6	4.5	-6.2	2.9	41.5	54.4					

LAKE ERIE WASTE/WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : WEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 03 SENECA, NY

RIVER: SAVOY RIVER

WETLAND

LAND USE	EXISTING POTENTIAL GROSS FROSION (TONS)	LOSS TO FROSION AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
230PLAND 546 1	10668.7	5292.6	10120.9	7.8	10460.7	4723.1	1478.3	591.9
230PLAND 546 2	8777.7	6503.3	8428.2	8.6	8777.7	3933.1	2001.5	1932.4
230PLAND 546 3	70.2	70.2	66.7	75.6	70.2	70.2	44.5	0.0
230PLAND 546 4	154.5	154.5	146.7	166.3	154.5	69.5	190.4	3.2
230PLAND 546 5	175.4	175.4	166.5	188.8	175.4	175.4	177.9	0.0
230PLAND 546 10	15801.1	410.2	15001.0	17001.2	15801.1	7000.5	133.4	133.4
230PLAND 546 11	118.4	3.1	112.5	127.4	118.4	52.3	110.4	110.4
230PLAND 546 12	12612.2	33930.0	38454.1	35739.6	5533.0	15970.3	4006.1	15970.3
VINEYARDS AND ORCH.	0.0	0.0	0.0	158.1	158.1	0.0	0.0	0.0
GRASSLAND AND PASTURE	22.4	22.4	22.4	279.2	279.2	0.0	0.0	0.0
WOODLAND	588.1	588.1	588.1	10487.1	10487.1	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS FROSION	109118.0	39539.6	103473.9	117284.6	100118.0	49643.3	15708.5	15708.5
PERCENT REDUCTION:	0.0	3.8	5.0	-7.3	0.0	43.3	94.3	94.3

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		MEXICANOM		COUNTY: 11 WYANDOT, OHIO															
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO 1 PLOWING ONLY	FALL PLOWING ONLY	WINTER COVER CROP	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	REDUCED TILLAGE (TONS)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	280182.4	82078.7	271483.9	299494.2	273638.6	37706.1	116350.1	22604.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
CROPLAND 2	160284.3	126493.1	163106.3	179934.7	164400.9	22453.7	69902.7	44402.3	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
CROPLAND 3	12660.0	11020.1	12271.3	13537.3	12564.6	12660.4	12663.4	1956.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
CROPLAND 4	23942.9	23942.9	23206.2	25600.5	23390.4	9945.5	9945.5	25993.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 5	12392.0	10999.9	12011.5	13250.8	12106.8	12392.8	12392.8	9263.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
CROPLAND 6	796.4	796.4	771.4	851.5	778.0	330.8	330.8	654.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 7	5813.6	5813.6	5634.7	6216.1	5679.4	5813.4	5813.4	5055.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
CROPLAND 8	119291.8	3617.6	115621.2	121550.5	116538.9	16048.4	44552.3	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9	1116.9
CROPLAND 9	623285.0	267754.3	604107.0	666435.6	604431.6	117561.4	276948.3	112126.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
CROPLAND 10	161.2	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)	151.0 (TNS)
MEADOWS AND ORCH.	66.7	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)
PASTURE AND PASTURE	416.6	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)	416.6 (TNS)
WOODLAND	2078.5	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)	2078.5 (TNS)
WETLAND	11386.6	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)	11386.6 (ACRES)
SUMMARY TOTAL POTENTIAL GROSS EROSION	1127523.5	481270.1	1093365.4	1265674.3	1162523.1	216426.4	503837.3	226426.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
PERCENT REDUCTION:	0.0	46.8	3.1	-6.4	2.3	40.4	55.3												

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCHEMES

BASIN: SANDUSKY RIVER		MIFICS-CP		COUNTY: 12 HARPING, ONT			
LAND USE	EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOTTING AND EXISTING ONLY (TONS)	FALL PLOTTING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WASH. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS TO FACTOR (ACRES)
CROPLAND 1 SAG	13718.9 9.9	3708.5 2.7	13176.6 9.6	14532.2 10.2	1749.4 1.1	5802.0 6.2	1225.2 11.0
CROPLAND 2 SAG	26784.8 3.7	16312.4 2.3	25126.1 3.6	24372.8 9.0	3493.7 .5	11328.2 1.5	2513.1 7.2
CROPLAND 3 SAG	668.0 2.3	668.0 2.3	641.4 2.2	707.6 2.4	644.2 2.3	665.2 2.3	9.0 0.0
CROPLAND 4 SAG	4084.3 .8	4084.3 .8	3922.9 .9	4326.4 .8	3939.0 .3	1727.4 .3	5284.0 0.0
CROPLAND 5 SAG	399.2 1.4	399.2 1.4	363.4 1.3	422.2 1.5	345.0 1.3	399.2 1.4	289.1 0.0
CROPLAND 6 SAG	69.6 .8	69.6 .8	66.8 .8	73.7 .8	67.1 .8	29.4 .3	89.0 0.0
CROPLAND 9 SAG	73.1 1.1	73.1 1.1	70.3 1.1	77.5 1.2	70.5 1.1	73.1 1.1	66.7 0.0
CROPLAND	45797.9 5.2	25315.2 1.7	43947.7 3.3	44513.0 3.4	44168.6 3.1	20027.1 1.4	14477.3
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	355.8 (ACRES)		
GRASSLAND AND PASTURE	18.5 177.9	18.5 (TONS) 177.9 (ACRES)	OTHER LAND USE AREA 177.9 (ACRES)	945.1 (ACRES)			
WOODLAND	51.6 1023.0	51.6 (TONS) 1023.0 (ACRES)	MISSING DATA 11875.9 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION							
80596.9	44509.3	77415.5	85368.5	77733.4	14485.5	35305.9	27554.6
2.9	1.6	2.8	3.1	2.8	.5	1.3	
PERCENT REDUCTION:	0.0	44.7	3.9	-5.9	3.6	82.0	55.2

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER		MEXICOGON		COUNTY: 13 MARION, OHIO			
LAND USE	EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE)
CROPLAND 1	9611.4 18.5	9218.4 10.1	9146.9 10.0	1179.1 1.3	3859.3 4.2	911.3	911.8 18.5
CROPLAND 2	4998.6 2.5	4794.2 2.4	4751.0 2.4	613.2 .3	2006.3 1.0	2001.6	0.0 0.0
CROPLAND 3	17078.9 7.3	16372.9 7.0	16246.0 7.0	17070.9 7.3	17070.9 7.3	2335.1	2335.1 7.3
CROPLAND 4	3954.2 .9	3792.6 .9	3763.2 .9	1587.6 .4	1587.6 .4	4314.5	3.0 0.0
CROPLAND 5	5631.9 5.8	5401.6 5.5	5359.7 5.5	5631.9 5.8	5631.9 5.8	978.5	711.7 7.4
CROPLAND 8	160.1 1.2	153.5 1.2	152.3 1.1	64.3 .5	64.3 .5	133.4	0.0 0.0
CROPLAND 9	211.9 1.2	203.3 1.1	201.7 1.1	211.9 1.2	211.9 1.2	177.9	0.0 0.0
CROPLAND 10	1693.8 76.5	1624.6 73.2	1612.0 72.6	207.8 9.4	680.0 30.5	22.2	22.2 76.5
CROPLAND	43332.8 4.0	41561.1 3.8	41238.8 3.8	26586.7 2.4	31112.4 2.3	10875.0	
WETLANDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	56.7 (ACRES)			
PASTURE AND PASTURE	9.4 89.0	9.4 (TONS) 89.0 (ACRES)	711.7 (ACRES)				
WOODLAND	32.2 511.5	32.2 (TONS) 511.5 (ACRES)	27710.4 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION	148112.5 3.8	142062.5 3.6	140962.0 3.6	93860.5 2.3	106382.3 2.7	33185.9	
PERCENT REDUCTION:	8.0	50.0	-6.3	4.6	38.7	28.2	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SANDUSKY RIVER		MICHIGAN		COUNTY: 10 RICHMOND, OHIO			
LAND USE	EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER PROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL BLDG AREA (TONS/ACRE)	SOIL MGMT. GRASS AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)
CROPLAND 1	10931.1 6.2	6517.7 6.1	12150.8 6.2	10931.1 6.2	2132.9 5.4	1756.9	1756.9 6.2
CROPLAND 2	13655.1 5.7	13444.6 5.5	13513.8 6.1	13655.1 5.7	2664.4 5.7	3714.0	3534.1 5.8
CROPLAND 3	1129.0 1.2	1115.2 1.2	1252.9 1.3	1129.0 1.2	1129.0 1.2	354.1	0.0 0.0
CROPLAND 4	628.1 5.5	628.1 5.5	697.1 5.5	628.1 5.5	344.7 5.3	1200.9	0.0 0.0
CROPLAND 5	112.2 5.7	110.8 5.7	124.5 5.4	112.2 5.7	112.2 5.7	155.7	0.0 0.0
CROPLAND 10	10932.3 70.2	10799.0 59.4	12132.2 77.9	10932.3 70.2	2133.1 13.7	155.7	155.7 70.2
CROPLAND	37397.8 4.7	21845.6 2.8	34931.9 4.7	37397.8 4.7	9516.5 1.1	7917.3	
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	311.4 (ACRES)			
PASTURE	35.5 444.8 9.8	35.5 (TONS) 444.8 (ACRES)	35.5 (TONS) 444.8 (ACRES)	778.4 (ACRES)			
WOODLAND	139.7 1112.0 1.3	139.7 (TONS) 1112.0 (ACRES)	139.7 (TONS) 1112.0 (ACRES)	177.9 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS EROSION	38268.3 4.0	22454.7 2.3	42448.9 4.4	38268.3 4.4	8854.7 5.0	3652.3	
PERCENT REDUCTION:	0.0	41.3	1.2	0.0	76.9	43.4	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		MEXICO-OM		COUNTY: 62 ALL IN BASIN										
LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. 3133P LAVO (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)							
1--CROPLAND 1	509710.5 10.1	204833.8 4.0	491018.3 9.7	544671.5 10.7	496903.7 9.6	70549.8 1.4	216753.7 9.5	50631.7 10.2						
2--CROPLAND 2	470554.0 3.8	345550.2 2.8	452131.8 3.7	561772.1 4.1	458238.2 3.7	65861.4 .5	202104.5 1.5	123538.8 4.4						
3--CROPLAND 3	45246.0 3.0	33369.9 2.2	43489.2 2.9	44223.2 3.2	43707.1 2.9	45246.0 3.0	45246.0 3.0	15194.5 4.9						
4--CROPLAND 4	47933.5 .8	47933.5 .8	46163.0 .8	51111.9 .9	46602.2 .8	20247.0 .4	27247.0 .4	55517.9 0.0						
5--CROPLAND 5	22892.8 1.7	18382.1 1.3	22063.5 1.6	24417.4 1.8	22198.5 1.6	22892.3 1.7	22892.3 1.7	13955.2 7.4						
8--CROPLAND 8	1026.0 1.2	1026.0 1.2	992.2 1.1	1095.4 1.2	997.5 1.1	424.5 .5	424.5 .5	977.2 0.0						
9--CROPLAND 9	6098.7 1.2	6098.7 1.2	5908.2 1.1	6518.9 1.2	5951.7 1.1	6098.7 1.2	6098.7 1.2	5300.4 0.0						
10--CROPLAND 10	171954.1 92.9	6652.1 3.6	166170.2 89.8	14234.4 99.5	164412.4 91.0	24166.2 13.1	73733.7 39.8	1850.8 92.9						
11--CROPLAND	1275415.6 4.8	663846.3 2.5	1227936.4 4.6	1361444.8 5.1	1243011.3 4.6	255481.4 1.0	587507.0 2.2	267866.5 2.2						
VINEYARDS AND ORCH.	187.0 1.08	176.9 (TONS) 111.2 (ACRES)	176.9 (TONS) 111.2 (ACRES)	176.9 (TONS) 111.2 (ACRES)	176.9 (TONS) 111.2 (ACRES)	176.9 (TONS) 111.2 (ACRES)	176.9 (TONS) 111.2 (ACRES)	176.9 (TONS) 111.2 (ACRES)						
GRASSLAND AND PASTURE	852.5 1483.1	852.5 (TONS) 8483.1 (ACRES)	852.5 (TONS) 8483.1 (ACRES)	852.5 (TONS) 8483.1 (ACRES)	852.5 (TONS) 8483.1 (ACRES)	852.5 (TONS) 8483.1 (ACRES)	852.5 (TONS) 8483.1 (ACRES)	852.5 (TONS) 8483.1 (ACRES)						
WOODLAND	4353.6 29966.4	4353.6 (TONS) 29966.4 (ACRES)	4353.6 (TONS) 29966.4 (ACRES)	4353.6 (TONS) 29966.4 (ACRES)	4353.6 (TONS) 29966.4 (ACRES)	4353.6 (TONS) 29966.4 (ACRES)	4353.6 (TONS) 29966.4 (ACRES)	4353.6 (TONS) 29966.4 (ACRES)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	194958.6 4.2	1018026.6 2.2	1477577.3 4.5	216426.4 4.5	1900527.4 4.1	397146.3 .9	502510.3 1.3	465494.1 1.3						
PERCENT REDUCTION:	0.0	47.7	3.7	-6.7	2.5	79.6	53.7							

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

Basin: SANDUSKY RIVER UPPER SANDUSKY CO. COUNTY: W2 CRAWFORD, OHIO

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO Y. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL WASH GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS S.T. FACTOR (ACRES)
CROPLAND 1	146276.5	80289.2	139572.2	195418.8	142010.1	23722.5	17927.5	17927.5
S46	8.2	4.5	7.8	8.7	7.9	5.3	1.2	1.2
CROPLAND 2	177900.7	127706.6	169746.9	189019.6	172712.6	25202.6	45528.7	29993.6
S46	3.8	2.7	3.6	4.1	3.7	1.7	1.7	1.7
CROPLAND 3	7437.2	6467.3	7996.3	7902.0	7220.2	7437.2	3790.6	155.7
S46	2.0	1.7	1.9	2.1	1.9	2.0	2.3	10.2
CROPLAND 4	14280.4	14280.4	13525.3	15173.0	13853.9	5188.2	19446.4	0.0
S46	.8	.8	.7	.8	.8	.3	.3	0.0
CROPLAND 5	3251.5	3251.5	3102.3	3459.7	3156.6	3251.5	3128.4	0.0
S46	1.0	1.0	1.0	1.1	1.0	1.0	1.0	0.0
CROPLAND 10	21614.7	1712.4	24624.3	22965.6	20954.3	3062.1	370.1	374.1
S46	57.2	4.5	54.5	60.7	55.5	8.1	24.5	57.2
CROPLAND	370761.0	233707.4	353767.8	393933.7	359947.1	65868.1	166720.1	98299.7
VINEYARDS AND ORCH.	25.9	25.9 (TONS)	44.5 (ACRES)	44.5 (ACRES)	1742.1 (ACRES)			
GRASSLAND AND PASTURE	327.2	327.2 (TONS)	3444.6 (ACRES)	3444.6 (ACRES)	6212.2 (ACRES)			
WOODLAND	1213.1	1213.1 (TONS)	10744.1 (ACRES)	10744.1 (ACRES)	7521.9 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS EROSION	399118.8	252203.2	340982.9	423959.0	387526.8	72282.4	180395.7	112054.8
PERCENT REDUCTION:	0.0	36.8	4.6	-6.2	2.9	81.9	50.8	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		UPPER SANDUSKY, OH		COUNTY: 11 WYANDOT, OHIO															
LAND USE	EXISTING GROSS EROSION (TONS)	EXISTING POT-REDUCE LOSS TO T PLOUGHING AND EXISTING ONLY (TONS)	FALL PLOUGHING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 352UP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)											
CROPLAND 1	71455.2	19993.3	69256.6	76462.1	69806.2	9019.0	5504.3	5604.3											
SWG	12.8	3.6	12.4	13.6	12.5	1.7	5.3	12.8											
CROPLAND 2	28217.5	18404.4	27349.3	30171.0	27566.3	3798.5	5026.3	4470.1											
SWG	9.7	3.1	4.5	5.0	4.6	1.9	5.2	5.2											
CROPLAND 3	1474.6	1134.2	1429.2	1576.7	1440.6	1474.6	378.1	378.1											
SWG	3.9	3.0	3.8	4.2	3.8	3.9	3.9	3.9											
CROPLAND 4	2954.1	2954.1	2863.2	3158.6	2895.9	1227.1	3091.3	0.0											
SWG	1.0	1.0	.9	1.0	.9	.4	0.0	0.0											
CROPLAND 5	4991.5	3906.4	4837.9	5337.1	4476.3	4991.5	2735.5	133.4											
SWG	1.8	1.4	1.8	2.0	1.8	1.8	1.8	11.1											
CROPLAND 8	27.4	27.4	26.5	29.3	26.7	11.4	22.2	0.0											
SWG	1.2	1.2	1.2	1.3	1.2	.5	0.0	0.0											
CROPLAND 9	1821.5	1021.5	990.1	1092.3	998.0	1021.5	989.6	9.0											
SWG	1.1	1.1	1.1	1.2	1.1	1.1	1.1	0.0											
CROPLAND 10	50905.8	1245.4	49339.4	54430.3	49731.0	6852.7	400.3	400.3											
SWG	127.2	3.1	123.3	136.0	124.2	17.1	52.8	127.2											
CROPLAND 11	161047.6	48606.7	156092.2	172197.1	157331.0	24996.3	19148.2	0.0											
SWG	8.4	2.5	8.2	9.0	8.2	1.5	3.7	0.0											
VINEYARDS AND ORCH.	161.2	151.0 (TONS)	151.0 (TONS)	151.0 (TONS)	151.0 (TONS)	151.0 (TONS)	151.0 (TONS)	151.0 (TONS)											
SWG	66.7	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)	66.7 (ACRES)											
GRASSLAND AND PASTURE	183.5	183.5 (TONS)	183.5 (TONS)	183.5 (TONS)	183.5 (TONS)	183.5 (TONS)	183.5 (TONS)	183.5 (TONS)											
SWG	1378.8	1378.8 (ACRES)	1378.8 (ACRES)	1378.8 (ACRES)	1378.8 (ACRES)	1378.8 (ACRES)	1378.8 (ACRES)	1378.8 (ACRES)											
WOODLAND	496.3	496.3 (TONS)	496.3 (TONS)	496.3 (TONS)	496.3 (TONS)	496.3 (TONS)	496.3 (TONS)	496.3 (TONS)											
SWG	2357.4	2357.4 (ACRES)	2357.4 (ACRES)	2357.4 (ACRES)	2357.4 (ACRES)	2357.4 (ACRES)	2357.4 (ACRES)	2357.4 (ACRES)											
SWG	21	21 (TONS/ACRE)	21 (TONS/ACRE)	21 (TONS/ACRE)	21 (TONS/ACRE)	21 (TONS/ACRE)	21 (TONS/ACRE)	21 (TONS/ACRE)											
3 YEARLY TOTAL POTENTIAL GROSS EROSION	318608.5	97471.9	308844.2	340543.0	311286.2	58120.5	43168.3	0.0											
PERCENT REDUCTION:	7.1	2.2	6.8	7.5	6.9	1.3	3.1	0.0											
	0.0	69.4	3.1	-6.9	2.3	41.6	53.3	0.0											

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER			UPPER SANDUSKY			COUNTY: 13			MAY 1970, 1971		
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION YIELD (TONS/ACRE)	REDUCED FILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WMT. LOSS: 20% LAY AREA (ACRES)	EXISTING SOIL LOSS: 20% LAY AREA (ACRES)			
CROPLAND 1	4804.7	1067.5	4604.1	5108.4	4572.6	129.0	355.4	355.4			
SAG 1	13.5	3.0	13.0	14.4	12.9	1.7	13.5	13.5			
CROPLAND 2	2056.0	2056.0	1971.9	2185.9	1956.6	252.2	925.3	925.3			
SAG 2	2.5	2.5	2.4	2.7	2.4	.3	1.0	1.0			
CROPLAND 3	6101.3	2935.6	5851.8	6486.9	5804.5	6101.3	978.5	978.5			
SAG 3	6.2	3.0	6.0	6.6	5.9	6.2	6.2	6.2			
CROPLAND 4	1530.2	1530.2	1467.6	1626.9	1456.2	614.4	1568.0	1568.0			
SAG 4	.9	.9	.9	1.0	.9	.4	0.0	0.0			
CROPLAND 5	1901.8	765.6	1824.0	2022.0	1809.9	1901.8	266.7	266.7			
SAG 5	7.1	2.9	6.8	7.6	6.8	7.1	7.6	7.6			
CROPLAND 9	53.7	53.7	51.5	57.1	51.1	53.7	44.5	44.5			
SAG 9	1.2	1.2	1.2	1.3	1.1	1.2	1.2	1.2			
CROPLAND 10	1693.8	66.7	1624.5	1800.9	1612.0	207.8	22.2	22.2			
SAG 10	76.3	3.0	73.2	81.1	72.6	30.5	76.3	76.3			
CROPLAND	18101.5	8475.3	17399.7	19288.1	17264.9	12105.7	4158.8	4158.8			
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
PASTURE AND PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
WOODLAND	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7			
SUMMARY TOTAL POTENTIAL GROSS FROSTION	43265.4	20241.7	41498.5	45996.5	41177.4	23207.6	10541.5	10541.5			
PERCENT REDUCTION:	0.0	53.2	4.1	-6.3	4.8	46.4	33.2	33.2			

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SAMOUSKY RIVER				UPPER SAMOUSKY RIVER				COUNTY: 14 RICHMOND, OHIO															
LAND USE	EXISTING POT. REDUCED GROSS EROSION (TONS/ACRE)	SOIL SPRING LOSS TO T. AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 3222/2 LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)				
CROPLAND 1	10931.1	8517.7	10797.8	12130.8	10931.1	2132.9	5993.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3	1756.3				
546	6.2	4.8	6.1	6.9	6.2	1.2	3.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2				
CROPLAND 2	13655.1	10855.9	13488.0	15153.0	13655.1	2666.4	7493.7	5716.0	3536.1	3536.1	3536.1	3536.1	3536.1	3536.1	3536.1	3536.1	3536.1	3536.1	3536.1				
546	3.7	2.9	3.6	4.1	3.7	.7	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0				
CROPLAND 3	1129.0	1129.0	1135.2	1252.9	1129.0	1129.0	1129.0	350.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
546	1.2	1.2	1.2	1.3	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
CROPLAND 4	628.1	628.1	620.5	697.1	628.1	346.7	346.7	1200.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
546	.5	.5	.5	.6	.5	.3	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
CROPLAND 5	112.2	112.2	110.8	124.5	112.2	112.2	112.2	155.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
546	.7	.7	.7	.8	.7	.7	.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
CROPLAND 10	20932.3	622.7	10799.0	12132.2	10932.3	2133.1	5993.4	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7				
546	70.2	4.0	69.4	77.9	70.2	13.7	39.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2				
CROPLAND	37387.0	21865.0	36931.9	41491.3	37387.0	4516.3	21077.4	7317.3															
	4.7	2.8	4.7	5.2	4.7	1.1	2.7																
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	311.4 (ACRES)																		
	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)																			
GRASSLAND AND PASTURE	35.5	35.5 (TONS)	OTHER LAND	778.4 (ACRES)																			
	444.8	444.8 (ACRES)	USE AREA																				
	.08	.08 (TONS/ACRE)																					
WOODLAND	139.7	139.7 (TONS)	MISSING DATA	177.9 (ACRES)																			
	1112.0	1112.0 (ACRES)																					
	.13	.13 (TONS/ACRE)																					
SUMMARY TOTAL POTENTIAL GROSS EROSION	38260.3	22450.7	37803.7	42444.2	34260.3	4450.7	21652.1	9652.0															
	4.6	2.3	3.9	4.4	4.0	.9	2.2																
PERCENT REDUCTIONS:	0.0	41.3	1.2	-10.9	0.0	76.9	43.4																

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SAUNDUSKY RIVER				UPPER SAUNDUSKY				COUNTY: 62 ALL IN BASIN															
LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	SOIL PLACING ONLY (TONS/ACRE)	FALL PLACING ONLY (TONS)	WINTER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL P.D. AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1" SECTION (TONS/ACRE)														
CROPLAND 1	233719.1	110000.3	224474.4	249323.4	227560.5	33098.6	101101.3	25689.0	9.1														
CROPLAND 2	222158.3	159156.2	212870.0	236874.0	216204.7	31963.3	97268.2	57236.3	6.7														
CROPLAND 3	16142.1	11666.1	15492.6	17218.5	15496.3	16142.1	16142.1	4081.3	5.1														
CROPLAND 4	19392.9	19392.9	19577.2	26655.6	18834.2	8374.3	8374.3	24406.5	0.0														
CROPLAND 5	10256.9	8035.7	9875.2	10938.2	9955.0	10256.9	10256.9	6286.3	8.9														
CROPLAND 6	27.4	27.4	26.5	29.3	26.7	11.4	11.4	22.2	0.0														
CROPLAND 7	1075.2	1075.2	1041.6	1149.3	1049.0	1075.2	1075.2	934.1	0.0														
CROPLAND 8	85146.6	3547.3	42387.0	91328.5	43259.5	12255.7	37191.3	956.3	956.3														
CROPLAND 9	587918.5	313000.8	554744.3	627517.8	572485.9	113177.5	271420.4	121512.7	2.2														
CROPLAND 10	167.0	176.9 (TONS)	176.9 (TONS)	176.9 (TONS)	2943.0 (ACRES)	2943.0 (ACRES)	2943.0 (ACRES)	2943.0 (ACRES)	2943.0 (ACRES)														
VINEYARDS AND ORCH.	111.2	111.2 (ACRES)	111.2 (ACRES)	111.2 (ACRES)	111.2 (ACRES)	111.2 (ACRES)	111.2 (ACRES)	111.2 (ACRES)	111.2 (ACRES)														
GRASSLAND AND PASTURE	546.2	546.2 (TONS)	546.2 (TONS)	546.2 (TONS)	9659.3 (ACRES)	9659.3 (ACRES)	9659.3 (ACRES)	9659.3 (ACRES)	9659.3 (ACRES)														
WOODLAND	1871.8	1871.8 (TONS)	1871.8 (TONS)	1871.8 (TONS)	36032.9 (ACRES)	36032.9 (ACRES)	36032.9 (ACRES)	36032.9 (ACRES)	36032.9 (ACRES)														
SUMMARY TOTAL POTENTIAL GROSS EROSION																							
740929.2										396103.1													
4.2										4.0													
PERCENT REDUCTION:										0.0													
										46.5													
										3.9													
										-6.7													
										2.6													
										80.4													
										53.5													
										177105.4													
										343219.4													
										1.9													
										53.5													

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER			BUCYRUS-UM			COUNTY: 02 CRAWFORD, OHIO																					
LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL LOSS > T FACTOR (ACRES)	SOIL LOSS > T FACTOR (TONS/ACRE)	LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL LOSS > T FACTOR (ACRES)	SOIL LOSS > T FACTOR (TONS/ACRE)	LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL LOSS > T FACTOR (ACRES)	SOIL LOSS > T FACTOR (TONS/ACRE)				
CROPLAND 1	51193.0	28622.1	48846.7	54392.6	49649.3	8.5	5471.2	CROPLAND 2	60711.5	45842.4	57928.9	64506.0	58940.7	8600.8	26308.3	17435.7	CROPLAND 3	1456.9	1456.9	1390.2	1544.0	1414.4	1456.9	911.0	0.0	0.0	
SWG 1	8.7	4.9	8.3	9.3	8.5	1.2	3.3	SWG 2	3.5	2.6	3.3	3.7	3.4	.5	1.3	4.4	SWG 3	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	
CROPLAND 4	4751.7	4751.7	4534.0	5048.7	4613.2	.7	.3	CROPLAND 5	1389.9	1326.2	1476.8	1349.4	1389.9	1389.9	1356.6	1356.6	CROPLAND 6	8587.5	733.9	8193.9	9124.2	8337.0	1216.6	3721.2	195.7	155.7	
SWG 4	.8	.8	.7	.8	.7	.3	.3	SWG 5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	SWG 6	55.2	4.7	52.8	56.6	53.5	7.8	23.9	0.0	0.0	
CROPLAND 7	128090.5	82796.9	122219.9	136376.3	124354.6	3.9	57119.3	CROPLAND 8	4.0	2.6	3.8	4.3	3.9	.7	1.8	0.0	CROPLAND 9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	0.0	0.0	
VINEYARDS AND ORCH.	44.5	44.5	44.5	44.5	44.5	778.4	778.4	VINEYARDS AND ORCH.	44.5	44.5	44.5	44.5	44.5	44.5	44.5	44.5	VINEYARDS AND ORCH.	44.5	44.5	44.5	44.5	44.5	44.5	44.5	0.0	0.0	
GRASSLAND AND PASTURE	213.7	213.7	213.7	213.7	213.7	2491.3	2491.3	GRASSLAND AND PASTURE	213.7	213.7	213.7	213.7	213.7	213.7	213.7	213.7	GRASSLAND AND PASTURE	213.7	213.7	213.7	213.7	213.7	213.7	213.7	0.0	0.0	
WOODLAND	514.9	514.9	514.9	514.9	514.9	4443.4	4443.4	WOODLAND	514.9	514.9	514.9	514.9	514.9	514.9	514.9	514.9	WOODLAND	514.9	514.9	514.9	514.9	514.9	514.9	514.9	0.0	0.0	
SWG 7	12	12	12	12	12	12	12	SWG 8	12	12	12	12	12	12	12	12	SWG 9	12	12	12	12	12	12	12	0.0	0.0	
SUMMARY TOTAL POTENTIAL GROSS EROSION	143694.4	93180.7	137147.2	152622.9	139528.6	25349.7	64543.4	SUMMARY TOTAL POTENTIAL GROSS EROSION	143694.4	93180.7	137147.2	152622.9	139528.6	25349.7	64543.4	42610.7	SUMMARY TOTAL POTENTIAL GROSS EROSION	143694.4	93180.7	137147.2	152622.9	139528.6	25349.7	64543.4	42610.7	155.7	55.2
PERCENT REDUCTION:	0.0	35.2	4.6	-6.2	2.9	42.4	53.1	PERCENT REDUCTION:	0.0	35.2	4.6	-6.2	2.9	42.4	53.1	53.1	PERCENT REDUCTION:	0.0	35.2	4.6	-6.2	2.9	42.4	53.1	53.1	155.7	55.2

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 14 NICHOLAND, OHIO									
BASIN: SANDUSKY RIVER									
SUCRAUS, OH									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING ONLY (TONS)	AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WASH- GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	10931.1	8517.7	10797.8	12110.8	10931.1	2132.9	5999.4	1756.9	1756.9
346	6.2	4.4	6.1	6.9	6.2	1.2	3.4	3.4	4.2
CROPLAND 2	13655.1	10855.9	13088.6	15153.8	13655.1	2664.4	7493.7	1714.0	3536.1
345	3.7	2.9	3.6	4.1	3.7	.7	2.0	2.0	3.8
CROPLAND 3	1129.0	1129.0	1115.2	1252.9	1129.0	1129.0	1129.0	934.1	0.0
346	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.2	0.0
CROPLAND 4	628.1	628.1	620.5	697.1	628.1	344.7	344.7	1200.9	0.0
345	.5	.5	.5	.6	.5	.3	.3	.3	0.0
CROPLAND 5	112.2	112.2	110.8	124.5	112.2	112.2	112.2	155.7	0.0
346	.7	.7	.7	.8	.7	.7	.7	.7	0.0
CROPLAND 10	10932.3	622.7	11799.0	12132.2	10932.3	2133.1	5999.4	155.7	155.7
345	70.2	4.0	69.4	77.9	70.2	13.7	39.3	70.2	70.2
CROPLAND	37387.8	21865.6	36931.9	41491.3	37387.8	8516.3	21077.5	7317.3	
	4.7	2.8	4.7	5.2	4.7	1.1	2.7		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	311.4 (ACRES)			
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)				
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)				
GRASSLAND AND PASTURE	35.5	35.5 (TONS)	35.5 (TONS)	OTHER LAND	778.4 (ACRES)				
	444.8	444.8 (ACRES)	444.8 (ACRES)	USE AREA					
	.08	.08 (TONS/ACRE)	.08 (TONS/ACRE)	.08 (TONS/ACRE)					
WOODLAND	139.7	139.7 (TONS)	139.7 (TONS)	MISSING DATA	177.9 (ACRES)				
	1112.0	1112.0 (ACRES)	1112.0 (ACRES)						
	.13	.13 (TONS/ACRE)	.13 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	38268.3	22446.7	37803.9	42448.9	38268.3	8894.7	21652.1	9652.0	
	4.0	2.3	3.9	4.4	4.0	.9	2.2		
PERCENT REDUCTIONS:	0.0	41.3	1.2	-10.9	0.0	76.9	43.4		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS
 U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SANDUSKY RIVER		BUCYRUS CO.		COUNTY: 62 ALL IN BASIN															
LAND USE		EXISTING POT-REDUCE SOIL SPRING LOSS TO T PLOWING ONLY		FALL PLOWING ONLY (TONS/ACRE)		WINTER COVER CROP (TONS/ACRE)		MAXIMUM REDUCTION TILLAGE (TONS/ACRE)		REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)		SOIL WASH: GROUP LAND (ACRES)		EXISTING SOIL LOSS > 1 FACTOR (ACRES)					
		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)					
CROPLAND 1		62375.6	37362.2	59884.0	66786.8	60871.5	3420.0	28287.3	7672.5	7672.6	8.1								
SAG		8.1	4.9	7.2	8.7	7.9	1.2	3.7											
CROPLAND 2		74695.6	56831.7	71750.9	80004.4	72910.5	11310.7	53939.8	21194.2	13955.2	4.3								
SAG		3.5	2.7	3.4	3.8	3.4	.5	1.6											
CROPLAND 3		2585.9	2585.9	2505.4	2800.9	2543.4	2585.9	2585.9	1945.3	4.0									
SAG		1.4	1.4	1.4	1.5	1.4	1.4	1.4											
CROPLAND 4		5379.9	5379.9	5154.4	5745.4	5241.3	2403.8	2403.8	7428.0	0.0									
SAG		.7	.7	.7	.8	.7	.3	.3											
CROPLAND 5		1502.1	1502.1	1437.1	1631.3	1461.6	1502.1	1502.1	1512.3	0.0									
SAG		1.0	1.0	1.0	1.1	1.0	1.0	1.3											
CROPLAND 10		19519.8	1356.6	18922.9	21256.4	19269.3	3349.7	9720.7	311.4	62.7									
SAG		62.7	4.4	61.0	68.3	61.9	10.8	31.2											
CROPLAND		166058.9	105018.4	155704.6	178195.6	162297.6	30572.2	78440.1	33964.4										
SAG		4.2	2.6	4.0	4.5	4.1	.8	2.0											
VINEYARDS AND ORCH.		25.9	25.9	25.9	25.9	25.9	1089.7	1089.7											
SAG		44.5	44.5	44.5	44.5	44.5													
PASTURE AND PASTURE		249.2	249.2	249.2	249.2	249.2	3689.5	3689.5											
SAG		.10	.10	.10	.10	.10													
WOODLAND		654.6	654.6	654.6	654.6	654.6	4581.3	4581.3											
SAG		5270.7	5270.7	5270.7	5270.7	5270.7													
SUMMARY TOTAL POTENTIAL GROSS EROSION		183003.2	116108.8	176039.5	196333.9	178881.2	34523.0	86381.5	52351.7										
PERCENT REDUCTION:		36.6	36.6	36.6	36.6	36.6	81.1	52.5											

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 11 WYANDOT, OHIO

CRAFTSDOWN

3ASIN: 1YMOCHTEE CRFEN

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRAP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: MISCELL. PLUM AREA (TONS/ACRE)	SOIL MOIST. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	69333.8 15.5	15033.9 3.4	67200.4 15.0	74133.8 16.6	67733.8 15.2	9133.4 2.1	4970.1 5.4	4970.1 15.4
CROPLAND 2	77967.2 3.7	59874.8 2.9	75568.2 3.6	83365.0 4.0	76168.0 3.7	10495.6 1.5	20438.4 4.0	14303.2 4.0
CROPLAND 3	7552.8 3.4	6738.6 3.0	7120.4 3.3	8075.7 3.4	7571.5 3.3	7552.8 3.4	2246.2 3.4	2246.2 3.4
CROPLAND 4	8713.8 3.9	8713.8 3.9	8445.7 3.6	9317.0 3.9	4512.7 3.8	3619.6 3.4	10141.2 3.4	0.0 0.0
CROPLAND 5	3430.8 1.4	3744.4 1.3	3809.8 1.4	4202.9 1.5	3840.1 1.4	1950.8 1.4	2902.2 1.4	155.7 4.1
CROPLAND 8	236.8 1.2	236.8 1.2	229.5 1.1	253.2 1.3	231.4 1.2	98.4 3.5	200.2 3.5	0.0 0.0
CROPLAND 9	4708.6 1.2	4708.6 1.2	4563.7 1.1	5034.5 1.2	4599.9 1.1	4708.6 1.2	4092.1 1.2	0.0 0.0
CROPLAND 10	30985.3 92.9	1000.8 3.0	30032.9 90.0	33131.5 99.3	30271.2 90.7	4171.2 12.5	333.6 39.5	333.6 42.4
CROPLAND	203430.1 4.5	100061.7 2.2	197170.6 4.4	217513.6 4.8	198735.6 4.4	43910.4 1.0	45124.0 2.1	-----
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	1579.0 (ACRES)	-----	-----	-----
GRASS: 40 AND PASTURE	111.5 867.3 .13	111.5 (TONS) 867.3 (ACRES) .13 (TONS/ACRE)	111.5 (TONS) 867.3 (ACRES) .13 (TONS/ACRE)	3447.1 (ACRES)	3447.1 (ACRES)	-----	-----	-----
WOODLAND	528.2 4648.0 .11	528.2 (TONS) 4648.0 (ACRES) .11 (TONS/ACRE)	528.2 (TONS) 4648.0 (ACRES) .11 (TONS/ACRE)	32981.1 (ACRES)	32981.1 (ACRES)	-----	-----	-----
SUMMARY TOTAL POTENTIAL GROSS EROSION	336979.3 4.0	166247.8 2.0	326643.1 3.9	360235.4 4.3	329227.3 3.9	73565.3 3.9	156225.2 1.9	83620.4 53.5
PERCENT REDUCTION:	0.0	50.7	3.1	-6.9	2.3	78.2	53.5	-----

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: TIMOCHTEE CREEK		COUNTY: 12 HARDIN, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. PLUING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)			
CROPLAND 1	13718.9	3708.6	13176.6	14532.2	13230.8	1789.4	5802.0	1378.8	1223.2	11.0	
SWC	9.9	2.7	9.6	10.5	9.6	1.3	6.2				
CROPLAND 2	26784.8	16312.4	25726.1	28172.8	25812.0	3493.7	11329.0	7161.1	2513.1	7.2	
SWC	3.7	2.3	3.6	4.0	3.6	.5	1.6				
CROPLAND 3	668.0	668.0	641.6	707.6	644.2	668.0	668.0	289.1	0.0	0.0	
SWC	2.3	2.3	2.2	2.4	2.2	2.3	2.3				
CROPLAND 4	4084.3	4084.3	3922.9	4326.4	3539.0	1727.4	1727.4	5204.0	0.0	0.0	
SWC	.8	.8	.8	.4	.8	.3	.3				
CROPLAND 5	399.2	399.2	383.4	422.8	385.0	399.2	399.2	289.1	0.0	0.0	
SWC	1.4	1.4	1.3	1.5	1.3	1.4	1.4				
CROPLAND 8	69.6	69.6	66.8	73.7	67.1	29.4	29.4	89.3	0.0	0.0	
SWC	.8	.8	.8	.4	.8	.3	.3				
CROPLAND 9	73.1	73.1	70.3	77.5	70.5	73.1	73.1	66.7	0.0	0.0	
SWC	1.1	1.1	1.1	1.2	1.1	1.1	1.1				
CROPLAND 10	45797.9	25315.2	43987.7	48513.3	44164.6	4180.2	20027.1	14477.3			
SWC	3.2	1.7	3.0	3.4	3.1	.6	1.4				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	355.8 (ACRES)						
GRASSLAND AND PASTURE	10.5	10.5 (TONS)	177.9 (ACRES)	OTHER LAND USE AREA	445.1 (ACRES)						
SWC	.06	.06 (TONS/ACRE)									
WOODLAND	51.6	51.6 (TONS)	MISSING DATA	MISSING DATA	11475.5 (ACRES)						
SWC	1023.4	1023.4 (ACRES)									
SWC	.05	.05 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	80596.9	44599.3	77415.5	85368.5	77133.4	14485.5	35105.3	27554.5			
PERCENT REDUCTION:	0.0	44.7	3.9	-5.9	3.6	42.0	56.2				

DATE: 13 MAR 1964

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: TYMOCHEE CREEK		CRAWFORD, OH		COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING POT. REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL MGMT.	EXISTING					
	GROSS	LOSS TO T	PLOWING	COVER	REDUCTION	TILLAGE:	GROUP LAND	SOIL LOSS					
	FROSTION	AND EXISTING	ONLY	CROP	TILLAGE	CHISEL P. 34	AREA	FACTORS					
	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)	(ACRES)					
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)					
CROPLAND 1	87859.2	20410.4	84987.1	93776.4	65538.9	11712.5	5405.0	6249.3					
SWG	13.7	3.2	13.3	14.6	13.4	5.7		14.0					
CROPLAND 2	107694.6	79129.6	104116.6	114666.3	104400.3	14350.2	29178.2	21016.3					
SWG	3.7	2.7	3.6	3.9	3.6	1.5		4.4					
CROPLAND 3	19190.4	11476.4	18483.0	26446.1	18462.2	19190.4	3991.3	3602.8					
SWG	4.9	2.9	4.7	5.3	4.7	4.9		5.1					
CROPLAND 4	15222.1	15222.1	14693.4	16220.7	14756.6	6320.1	17991.7	6.0					
SWG	.8	.8	.8	.9	.8	.4		0.0					
CROPLAND 5	8060.1	5902.1	7770.8	8591.6	7774.9	8060.1	3902.3	622.7					
SWG	2.1	1.6	2.0	2.3	2.0	2.1		6.5					
CROPLAND 6	466.5	466.5	449.9	497.1	450.8	192.1	422.5	0.0					
SWG	1.1	1.1	1.1	1.2	1.1	.5		0.0					
CROPLAND 7	4948.0	4948.0	4785.7	5283.3	4821.0	4948.0	4292.2	0.0					
SWG	1.2	1.2	1.1	1.2	1.1	1.2		0.0					
CROPLAND 8	30946.3	1000.8	30032.9	33151.5	30271.2	12971.2	333.5	333.6					
SWG	92.9	3.0	90.0	99.3	96.7	38.6		92.9					
CROPLAND 9	274419.2	138548.1	265319.4	292810.0	266277.9	133001.8	65318.0						
SWG	4.1	2.1	4.0	4.4	4.0	2.3							
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.00 (TONS/ACRE)	1957.1 (ACRES)								
GRASSLAND AND PASTURE	131.3	131.3 (TONS)	OTHER LAND	4625.8 (ACRES)									
	1134.2	1134.2 (ACRES)	USE AREA										
	.12	.12 (TONS/ACRE)											
WOODLAND	589.3	589.3 (TONS)	MISSING DATA	66451.5 (ACRES)									
	5915.7	5915.7 (ACRES)											
	.10	.10 (TONS/ACRE)											
SUMMARY TOTAL POTENTIAL GROSS EROSION	524342.1	265408.5	507600.4	559390.1	509970.5	132747.9	157919.4						
PERCENT REDUCTION:	0.0	49.4	3.3	-6.7	2.7	74.7	51.4						

LAKE ERIE WASTE/WATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BROKEN SWORD CREEK		NEVADA-CO		COUNTY: 12 CRAWFORD, OHIO				
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO TILLAGE AND CROPPING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROPPING ONLY (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. SAVING AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	72997.5	41019.4	69651.8	77559.9	10341.3	31632.3	9955.3	4969.0
SAG	8.1	0.6	7.8	8.7	7.9	1.2	3.5	4.1
CROPLAND 2	86604.7	59602.2	82635.5	92317.6	94374.7	12269.0	20719.3	14949.5
SAG	4.2	2.9	9.0	4.4	4.1	0.6	1.9	4.8
CROPLAND 3	4981.7	4445.8	4658.0	5186.8	4739.3	4881.7	2700.9	44.5
SAG	1.8	1.6	1.7	1.9	1.8	1.8	1.9	13.4
CROPLAND 4	4882.8	4882.8	4659.0	5186.8	4740.4	2115.9	5125.7	0.0
SAG	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.0
CROPLAND 5	1181.8	1181.8	1127.6	1255.7	1147.3	1181.8	1104.6	0.0
SAG	1.1	1.1	1.0	1.1	1.0	1.1	1.1	0.0
CROPLAND 10	8894.4	667.2	8486.8	9450.3	6635.0	1250.0	155.7	155.7
SAG	57.1	4.3	54.5	60.7	55.5	8.1	28.4	57.1
CROPLAND	179442.9	111794.2	171218.5	190658.3	174209.1	32049.7	81196.7	39771.7
	4.5	2.8	4.3	4.4	4.4	0.8	2.9	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	638.1 (ACRES)			
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)				
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)					
GRASSLAND AND PASTURE	53.8	53.8 (TONS)	53.8 (TONS)	1833.3 (ACRES)				
	775.9	775.9 (ACRES)	775.9 (ACRES)					
	0.07	0.07 (TONS/ACRE)	0.07 (TONS/ACRE)					
WOODLAND	337.1	337.1 (TONS)	337.1 (TONS)	1472.7 (ACRES)				
	3827.7	3827.7 (ACRES)	3827.7 (ACRES)					
	0.09	0.09 (TONS/ACRE)	0.09 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	185802.0	115908.2	177394.7	197389.6	180394.5	33517.2	84293.2	45444.0
	4.1	2.5	3.9	4.3	3.9	0.7	1.3	
PERCENT PRODUCTION:	0.0	37.6	4.5	-6.2	2.9	82.0	54.5	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: BROKEN SWORD CREEK		NEVADA-01		COUNTY: 11 WYANDOT, OHIO															
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T. FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
CROPLAND 1	7810.3	2757.7	7569.9	8351.0	7630.0	1051.4	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7	711.7
SW6	11.0	3.9	10.6	11.7	10.7	1.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
CROPLAND 2	3172.4	1932.7	3074.8	3392.0	3099.2	427.1	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7	622.7
SW6	5.1	3.1	4.9	5.4	5.0	.7	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
CROPLAND 4	17.9	17.9	17.3	19.1	17.5	7.4	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
SW6	.8	.8	.8	.9	.8	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
CROPLAND 5	157.4	157.4	152.6	158.3	153.8	157.4	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2	111.2
SW6	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
CROPLAND 10	2156.6	66.7	2090.3	2305.9	2106.9	290.3	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
SW6	97.1	3.0	94.2	103.9	94.5	13.1	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
CROPLAND	13314.6	4932.4	12904.9	14236.3	13007.4	1933.6	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
SW6	8.9	3.3	8.7	9.6	6.7	1.3	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
SW6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	2.5	2.5	2.5	2.5	2.5	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
SW6	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
WOODLAND	11.0	11.0	11.0	11.0	11.0	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5	2223.5
SW6	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06
31444444 TOTAL POTENTIAL GROSS EROSION	36837.4	11369.2	29695.6	32756.1	29931.2	4475.8	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3	3936.3
SW6	7.8	2.9	7.5	8.3	7.6	1.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
PERCENT REDUCTION:	0.0	62.9	3.1	-6.9	2.3	85.4	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BROOKS CREEK		COUNTY: 42 ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE ONLY (TONS/ACRE)	LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MOIST. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)		
1	8087.7	43772.1	77221.7	85910.8	74898.4	11392.7	34876.3	3676.5	9676.6		
2	49777.1	61534.9	85719.1	95409.5	97177.9	12596.1	38495.3	21342.3	15204.4		
3	4081.7	4445.8	4658.0	5186.8	4739.3	4981.7	4981.7	2700.9	44.5		
4	4900.7	4900.7	4576.3	5207.1	4757.9	2123.3	2123.3	5148.8	13.4		
5	1339.2	1339.2	1280.2	1424.0	1301.1	1339.2	1339.2	1215.9	0.0		
6	11051.0	733.9	10577.0	11756.2	10741.9	1590.4	4750.1	177.9	0.0		
7	62.1	4.1	59.5	66.1	60.4	8.7	25.7	177.9	62.1		
8	192757.4	116726.6	154123.3	204894.5	187216.5	33983.4	86817.3	41261.7			
9	0.0	0.0	0.0	0.0	652.4	652.4	0.0				
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
11	56.3	56.3	56.3	56.3	1875.5	1875.5	0.0				
12	828.4	828.4	828.4	828.4	0.0	0.0	0.0				
13	348.1	348.1	348.1	348.1	3496.7	3496.7	0.0				
14	4005.6	4005.6	4005.6	4005.6	0.0	0.0	0.0				
15	20655.3	126526.1	199328.7	221765.9	202678.0	37146.0	94217.9	43784.4			
16	4.2	2.5	4.0	4.5	4.1	.7	1.9				
17	0.0	39.4	4.5	-6.3	2.9	82.2	50.9				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 03 SEMPER, OHIO									
BASIN: WOLF CREEK, WEST BRANCH BETTSVILLE, OH									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOUGH AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
1 CROPLAND	3691.3	3713.6	3694.3	4186.9	3691.3	574.7	1724.0	1067.5	89.0
346	3.6	3.5	3.5	3.9	3.6	.5	1.5	6.8	6.8
2 CROPLAND	3692.4	3630.5	35024.4	39694.4	36892.4	5448.2	16344.7	12384.9	11050.5
346	3.0	2.9	2.8	3.2	3.0	.4	1.3	3.1	3.1
3 CROPLAND	4290.1	4290.1	4072.9	4616.0	4290.1	4290.1	4290.1	2713.2	0.0
343	1.6	1.6	1.5	1.7	1.6	1.6	1.5	0.0	0.0
4 CROPLAND	13531.3	13531.3	12846.2	14559.0	13531.3	5994.9	5994.9	14322.2	0.0
346	.9	.9	.9	1.0	.9	.4	.4	6.0	6.0
5 CROPLAND	315.2	315.2	299.2	339.1	315.2	315.2	315.2	289.1	0.0
343	1.1	1.1	1.0	1.2	1.1	1.1	1.1	0.0	0.0
6 CROPLAND	21.4	21.4	20.3	23.0	21.4	9.5	9.5	22.2	0.0
346	1.0	1.0	.9	1.0	1.0	.4	.4	0.0	0.0
7 CROPLAND	2763.7	66.7	2623.8	2973.5	2763.7	408.1	1224.4	22.2	22.2
346	124.5	3.0	118.2	133.9	124.5	18.4	55.2	124.5	124.5
8 CROPLAND	61785.4	58238.6	56581.1	66342.0	61785.4	17040.7	29302.3	30921.3	
346	2.0	1.9	1.9	2.2	2.0	.6	1.3		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	1156.5 (ACRES)			
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)				
9 PASTURE AND PASTURE	11.5	11.5 (TONS)	0.0 (ACRES)	0.0 (ACRES)	2624.4 (ACRES)				
346	.02	.02 (TONS/ACRE)	.02 (TONS/ACRE)	.02 (TONS/ACRE)	.02 (TONS/ACRE)				
10 WOODLAND	60.3	60.3 (TONS)	0.0 (ACRES)	0.0 (ACRES)	4447.9 (ACRES)				
346	1645.7	1645.7 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)				
	.04	.04 (TONS/ACRE)	.04 (TONS/ACRE)	.04 (TONS/ACRE)	.04 (TONS/ACRE)				
SUMMARY TOTAL POTENTIAL GROSS EROSION									
	70114.9	66180.4	66568.9	75434.0	70114.9	19422.1	34020.1	37404.2	
	1.9	1.8	1.8	2.0	1.9	.5	.5		
PERCENT REDUCTION:									
	0.0	5.6	5.1	-7.6	0.0	72.3	51.5		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: VOLF CREEK, WEST BRANCH BETTSVILLE, OH COUNTY: 10 WANCOCK, OH

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL WENT TO LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
ROWLAND 2	408.7	408.7	345.6	424.1	388.7	52.4	175.4	0.0
546	2.3	2.3	2.2	2.4	2.2	.3	.3	0.0
ROWLAND A	26.4	26.4	24.9	27.4	25.1	10.7	22.2	0.0
546	1.2	1.2	1.1	1.2	1.1	.5	.5	0.0
ROWLAND	435.1	435.1	410.5	451.5	413.8	63.1	175.7	0.0
546	2.2	2.2	2.1	2.3	2.1	.3	.3	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WOODLAND	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
546	39.5	39.5	39.5	39.5	39.5	0.0	0.0	0.0
546	.04	.04	.04	.04	.04	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS EROSION	436.8	436.8	412.2	453.2	415.5	64.8	177.4	237.1
PERCENT REDUCTION:	0.0	0.0	5.6	-3.8	4.9	85.2	59.4	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

WOLF CREEK+WEST BRANCH BETTSVILLE+OH COUNTY: 62 ALL IN BASIN

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
CROPLAND 1 SUG	3891.3 3.6	3713.6 3.5	3694.3 3.5	4186.9 3.9	3891.3 3.6	574.7 .5	1724.3 1.5
CROPLAND 2 SUG	37301.1 3.0	36709.2 2.9	35410.0 2.8	40118.5 3.2	37281.0 3.0	5500.7 .4	16509.8 1.3
CROPLAND 3 SUG	4290.1 1.6	4072.9 1.5	4072.9 1.5	4616.0 1.7	4290.1 1.6	4290.1 1.6	4290.1 1.6
CROPLAND 4 SUG	13531.3 .9	13531.3 .9	12846.2 .9	14559.0 1.0	13531.3 .9	5994.9 .4	5994.9 .4
CROPLAND 5 SUG	315.2 1.1	315.2 1.1	299.2 1.0	359.1 1.2	315.2 1.1	315.2 1.1	315.2 1.1
CROPLAND 8 SUG	47.0 1.1	47.0 1.1	45.3 1.0	50.5 1.1	46.5 1.0	20.2 .5	20.2 .5
CROPLAND 10 SUG	2763.7 124.5	66.7 3.0	2623.8 118.2	2973.6 133.9	2763.7 124.5	408.1 18.4	1224.4 55.2
CROPLAND 10 SUG	62140.5 2.0	58673.9 1.9	58991.7 1.9	66843.6 2.2	62119.1 2.0	17103.9 .6	30078.5 1.3
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	1156.5 (ACRES)		
GRASSLAND AND PASTURE	11.5 489.3	11.5 (TONS) 489.3 (ACRES)	OTHER LAND USE AREA 0.02 (TONS/ACRE)	2624.4 (ACRES)			
WOODLAND	62.1 1685.3	62.1 (TONS) 1685.3 (ACRES)	MISSING DATA 0.0 (TONS/ACRE)	4447.9 (ACRES)			
JANUARY TOTAL POTENTIAL GROSS EROSION							
	70550.7 1.9	66619.6 1.8	66980.0 1.8	75884.0 2.0	70526.4 1.9	19479.3 .5	34192.5 .3
PERCENT REDUCTION:							
	0.0	5.6	5.1	-7.6	.6	72.4	51.5

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: WOLF CREEK-EAST BRANCH BETTSVILLE-ON										COUNTY: OS SENECA, OHIO				ALL IN BASIN			
LAND USE	EXISTING GROSS EROSION (TONS)	POT-REDUCE AND EXISTING ONLY (TONS)	SOIL SPRING ONLY (TONS)	LOSS TO TILLAGE ONLY (TONS)	SOIL SPRING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISPL 0.04 AREA (TONS)	SOIL WENT. 2033+ LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)					
1-CROPLAND 1	2959.3	2446.4	2809.4	3184.0	2959.3	3184.0	2959.3	437.0	1311.1	620.4	155.7	6.3					
546	3.6	3.0	3.4	3.9	3.5	3.5	.5	1.5									
2-CROPLAND 2	48688.6	46853.4	46223.4	52386.5	48688.6	52386.5	48688.6	7190.3	21570.3	15478.7	15279.5	3.2					
546	3.1	3.0	3.0	3.4	3.1	3.1	.5	1.4									
3-CROPLAND 3	5821.5	5821.5	5526.4	6263.7	5821.5	6263.7	5821.5	5821.5	5821.5	3586.8	0.0	0.0					
546	1.6	1.6	1.5	1.7	1.6	1.7	1.6	1.6	1.5								
4-CROPLAND 4	3677.9	3677.9	3491.7	3957.2	3677.9	3957.2	3677.9	1629.5	1629.5	4097.0	0.0	0.0					
546	.9	.9	.9	1.0	.9	1.0	.4	.4									
5-CROPLAND 5	431.6	431.6	409.8	468.4	431.6	468.4	431.6	431.6	431.6	400.3	0.0	0.0					
546	1.1	1.1	1.0	1.2	1.1	1.2	1.1	1.1	1.1								
8-CROPLAND 8	67.8	67.8	64.4	72.9	67.8	72.9	67.8	38.0	38.0	66.7	0.0	0.0					
546	1.0	1.0	1.0	1.1	1.0	1.1	.4	.4									
CROPLAND	61646.7	59297.0	58525.5	66328.7	61646.7	66328.7	61646.7	15539.9	30794.6	24549.9							
	2.5	2.4	2.4	2.7	2.5	2.7	.6	1.5									
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	578.2 (ACRES)													
	0.0	0.0 (ACRES)															
	0.0	0.0 (TONS/ACRE)															
GRASSLAND AND PASTURE	23.5	23.5 (TONS)	OTHER LAND	2041.1 (ACRES)													
	667.2	667.2 (ACRES)	JSE AREA														
	.04	.04 (TONS/ACRE)															
WOODLAND	81.6	81.6 (TONS)	MISSING DATA	22708.9 (ACRES)													
	1882.9	1882.9 (ACRES)															
	.04	.04 (TONS/ACRE)															
SUMMARY TOTAL POTENTIAL GROSS EROSION	113497.2	107761.1	122103.1	113497.8	28755.0	56742.6	43988.9										
	2.3	2.2	2.5	2.3	.6	1.1											
PERCENT REDUCTION:	8.0	3.8	5.1	-7.6	0.0	74.7	58.3										

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 02 CRAWFORD, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE (TONS/ACRE)	SOIL SPRING (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)		
CROPLAND	43893.4	26809.3	41118.3	45786.8	41836.5	6104.9	18673.8	4991.5	4991.5		
546 1	8.6	5.0	8.2	9.2	8.4	1.2	3.7		8.6		
CROPLAND	66458.8	47564.3	63412.8	70612.5	64520.5	9415.0	28798.3	16803.1	12147.7		
546 2	9.0	2.8	3.8	4.2	3.8	.6	1.7		9.6		
CROPLAND	5496.8	5496.8	5244.9	5840.3	5336.5	5496.8	5496.8	3261.8	0.0		
546 3	1.7	1.7	1.6	1.8	1.6	1.7	1.7		0.0		
CROPLAND	5685.9	5685.9	5425.3	6041.3	5520.1	2463.9	2463.9	6355.5	0.0		
546 4	.9	.9	.9	1.0	.9	.4	.4		0.0		
CROPLAND	748.5	748.5	714.2	795.3	726.7	748.5	748.5	790.7	0.0		
546 5	.9	.9	.9	1.0	.9	.9	.9		0.0		
CROPLAND	554.5	39.5	529.1	589.2	538.3	78.6	240.3	9.9	9.9		
546 10	56.0	4.0	55.4	59.5	54.4	7.9	24.3		56.0		
CROPLAND	122037.9	84344.3	116444.6	129665.4	118478.6	24307.7	56422.1	32212.5			
546	3.8	2.6	3.6	4.0	3.7	.8	1.8				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	266.9 (ACRES)							
	0.0	0.0 (ACRES)									
	0.00	0.00 (TONS/ACRE)									
GRASSLAND AND PASTURE	17.1	17.1 (TONS)	OTHER LAND USE AREA	1591.4 (ACRES)							
	316.3	316.3 (ACRES)									
	.05	.05 (TONS/ACRE)									
WOODLAND	220.7	220.7 (TONS)	MISSING DATA	553.5 (ACRES)							
	3271.7	3271.7 (ACRES)									
	.07	.07 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	124166.2	85889.8	118486.4	131911.6	120551.4	24925.0	57535.9	36354.0			
	3.4	2.4	3.3	3.6	3.3	.7	1.6				
PERCENT REDUCTION:	0.0	30.8	4.6	-6.2	2.9	79.9	53.7				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : FERT MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: CATTARAUGUS, NY									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO 1 PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM VILLAGE REDUCTION (TONS/ACRE)	REDUCED VILLAGE CHISEL PLOW AREA (ACRES)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)			
1 CROPLAND	28993.8	14270.3	27525.8	31195.9	28993.8	4281.4	4121.7	2899.9			
2 CROPLAND	130285.6	102316.2	123688.2	140148.7	139285.6	19240.5	33454.5	11330.2			
3 CROPLAND	9445.2	9445.2	9445.2	9445.2	9445.2	9445.2	5970.1	0.0			
4 CROPLAND	953.0	953.0	904.8	953.0	953.0	953.0	1156.3	0.0			
5 CROPLAND	1009.6	1009.6	958.5	1009.6	1009.6	1009.6	1037.0	0.0			
6 CROPLAND	148.6	148.6	133.5	151.3	148.6	62.3	139.4	0.0			
7 CROPLAND	6141.6	148.3	5830.5	6508.0	6141.6	907.0	49.4	49.4			
8 CROPLAND	124.3	3.0	118.0	133.8	124.3	16.4	55.1	124.3			
9 CROPLAND	176969.4	128283.2	168009.1	18410.2	174969.4	35368.6	47328.5	1.8			
10 VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	642.5	642.5					
11 GRASSLAND AND PASTURE	62.8	62.8	523.9	3083.9	3083.9						
12 WOODLAND	679.9	679.9	7205.6	1245.4	1245.4						
13 SUMMARY TOTAL POTENTIAL GROSS EROSION	181608.6	131913.0	172527.4	18410.2	181608.6	34919.3	86871.2	55903.0			
PERCENT REDUCTION:	0.0	27.4	5.0	-7.6	0.0	79.7	52.2				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		MOUTH		COUNTY: ON MURON, OHIO															
LAND USE	EXISTING POT-REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL MGMT.	EXISTING	SOIL LOSS	EXISTING	SOIL MGMT.	EXISTING	SOIL LOSS	EXISTING	SOIL MGMT.	EXISTING	SOIL LOSS	EXISTING	SOIL MGMT.
	GROSS	LOSS TO T PLOWING	PLOWING	COVER	REDUCTION	WILLAGE:	GROUP LAND												
	EROSION	AND EXISTING ONLY	ONLY	CROP	TILLAGE	CHISEL PLOW AREA													
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)												
1	6211.7	3162.9	5917.1	6506.3	5961.6	859.3	532.5	632.6	9.8										
2	11387.3	10368.5	10847.2	11927.4	10692.2	1575.3	3449.5	3449.6	3.3										
3	95.1	88.9	90.5	99.6	90.9	95.1	39.5	9.9	3.6										
4	1746.0	1746.0	1663.2	1628.6	1670.1	731.5	1255.3	9.8	0.0										
5	1540.5	1540.5	1467.5	1613.6	1473.5	1540.5	1690.2	0.0	0.0										
CROPLAND	20988.6	16906.8	19985.5	21975.7	20068.3	4401.7	7067.2												
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
GRASSLAND AND PASTURE	79.3	79.3	79.3	79.3	79.3	79.3	79.3												
WOODLAND	52.6	52.6	52.6	52.6	52.6	52.6	52.6												
SUMMARY TOTAL POTENTIAL GROSS EROSION	21166.5	17067.3	20165.2	22107.7	20244.5	4407.0	7996.3												
PERCENT REDUCTION:	0.0	19.4	4.7	-4.7	4.3	76.9	53.4												

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIO

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 11 LYNDOT, OHIO

WATER

BASEIN: HONEY CREEK

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROPPING (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS/ACRE)	SOIL MOIST. STORING LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
1	136.1	89.0	131.9	132.9	18.3	56.3	19.8	19.8
2	1630.5	1373.6	1590.3	1592.9	219.5	677.5	504.1	316.3
3	3.2	2.7	3.1	3.2	.4	1.3	3.8	3.8
4	294.4	294.4	285.3	297.6	122.3	122.3	197.7	0.0
5	13.1	13.1	12.5	12.7	13.1	13.1	9.3	0.0
6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	3.0
7	2074.1	1778.2	2010.1	2026.1	373.2	862.2	731.5	1.2
8	2.9	2.4	2.7	2.8	.5	1.2		
9	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)			
10	0.0	0.0 (ACRES)	0.0 (ACRES)					
11	0.0	0.00 (TONS/ACRE)						
12	0.0	0.0 (TONS)	0.0 (TONS)	9.9 (ACRES)				
13	0.0	0.0 (ACRES)	0.0 (ACRES)					
14	0.0	0.00 (TONS/ACRE)						
15	2.6	2.6 (TONS)	MISSING DATA	19.8 (ACRES)				
16	39.5	39.5 (ACRES)						
17	.07	.07 (TONS/ACRE)						
18	2130.0	1818.2	2064.4	2080.8	385.5	894.2	798.9	1.1
19	2.7	2.3	2.6	2.6	.5	1.1		
20	0.0	14.6	3.1	2.3	81.9	58.0		
21	0.0							
22	0.0							
23	0.0							
24	0.0							
25	0.0							
26	0.0							
27	0.0							
28	0.0							
29	0.0							
30	0.0							
31	0.0							
32	0.0							
33	0.0							
34	0.0							
35	0.0							
36	0.0							
37	0.0							
38	0.0							
39	0.0							
40	0.0							
41	0.0							
42	0.0							
43	0.0							
44	0.0							
45	0.0							
46	0.0							
47	0.0							
48	0.0							
49	0.0							
50	0.0							
51	0.0							
52	0.0							
53	0.0							
54	0.0							
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56	0.0							
57	0.0							
58	0.0							
59	0.0							
60	0.0							
61	0.0							
62	0.0							
63	0.0							
64	0.0							
65	0.0							
66	0.0							
67	0.0							
68	0.0							
69	0.0							
70	0.0							
71	0.0							
72	0.0							
73	0.0							
74	0.0							
75	0.0							
76	0.0							
77	0.0							
78	0.0							
79	0.0							
80	0.0							
81	0.0							
82	0.0							
83	0.0							
84	0.0							
85	0.0							
86	0.0							
87	0.0							
88	0.0							
89	0.0							
90	0.0							
91	0.0							
92	0.0							
93	0.0							
94	0.0							
95	0.0							
96	0.0							
97	0.0							
98	0.0							
99	0.0							
100	0.0							

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. BRUSH LAND AREA (ACRES)	EXISTING SOIL LOSS > Y FACTOR (TONS/ACRE)		
CROPLAND 1	78436.9	42331.5	74692.9	83634.3	76904.8	11264.3	34179.2	3765.6	8124.8		
546	8.0	4.3	7.6	8.6	7.9	1.2	3.3		9.8		
CROPLAND 2	209762.2	161622.5	199529.1	224464.0	207231.1	30450.3	91968.5	56211.5	27843.8		
546	3.7	2.9	3.5	4.0	3.7	.5	1.5		4.7		
CROPLAND 3	15037.1	15030.9	14302.4	10102.5	14072.6	15037.1	15037.1	9271.4	9.9		
546	1.6	1.6	1.5	1.7	1.6	1.6	1.6		3.6		
CROPLAND 4	8679.4	8679.4	8278.6	9210.3	8430.8	3739.9	3739.9	9965.0	0.0		
546	1.0	1.0	.9	1.0	.9	.4	.4		0.0		
CROPLAND 5	3311.7	3311.7	3152.8	3509.1	3222.6	3311.7	3311.7	3528.7	0.0		
546	.9	.9	.9	1.0	.9	.9	.9		0.0		
CROPLAND 8	148.6	140.6	133.5	151.3	140.6	62.3	62.3	138.4	0.0		
546	1.0	1.0	1.0	1.1	1.0	.5	.5		0.0		
CROPLAND 10	6696.1	187.8	6359.7	7197.2	6679.9	985.5	2961.2	59.3	59.3		
546	112.9	3.2	107.2	121.4	112.6	16.6	43.9		112.9		
CROPLAND	322062.0	231304.4	306449.0	344258.7	317542.4	64851.1	151259.3	87339.9			
	3.7	2.6	3.5	3.9	3.6	.7	1.7				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY		1107.0 (ACRES)						
	0.0	0.0 (ACRES)									
	0.00	0.00 (TONS/ACRE)									
PASTURE AND PASTURE	82.5	82.5 (TONS)	OTHER LAND		6484.3 (ACRES)						
	919.2	919.2 (ACRES)	JSE AREA								
	.09	.09 (TONS/ACRE)									
WOODLAND	955.8	955.8 (TONS)	MISSING DATA		1866.1 (ACRES)						
	11317.4	11317.4 (ACRES)									
	.04	.08 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	329125.5	236675.4	313221.3	351746.3	324521.6	67118.1	155137.3	102344.5			
	3.2	2.3	3.1	3.4	3.2	.7	1.3				
PERCENT REDUCTION:	0.0	28.1	4.8	-6.9	1.4	79.6	92.9				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK			AT RT. 231			COUNTY: 02 CRAWFORD, OHIO														
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO T. PLOUGHING AND EXISTING ONLY (TONS/ACRE)	REDUCED LOSS TO T. PLOUGHING ONLY (TONS/ACRE)	FALL PLOUGHING ONLY (TONS/ACRE)	WINTER COVER CRP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CRIPSEL PLOW AREA (TONS/ACRE)	SOIL MGMT. 300JP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)										
CROPLAND 1	43093.4	24809.3	41114.1	42786.8	41836.5	6104.9	18673.3	4991.5	9991.5	9.6										
SWG	8.6	5.0	8.2	9.2	8.4	1.2	3.7													
CROPLAND 2	66458.8	47564.3	63412.4	70612.4	64520.4	9415.0	24798.9	15403.1	12147.7	4.6										
SWG	4.0	2.8	3.8	4.2	3.8	.6	1.7													
CROPLAND 3	5496.8	5406.8	5244.3	5940.3	5336.5	5406.8	5496.8	3261.5	0.0	0.0										
SWG	1.7	1.7	1.6	1.8	1.6	1.7	1.7													
CROPLAND 4	5685.9	5685.9	5425.3	6041.3	5520.1	2463.9	2463.9	5355.3	0.0	0.0										
SWG	.9	.9	.9	1.0	.9	.4	.4													
CROPLAND 5	748.5	748.5	714.2	795.3	726.7	748.5	748.5	190.7	9.0	0.0										
SWG	.9	.9	.9	1.0	.9	.9	.9													
CROPLAND 10	554.5	39.5	529.1	589.2	538.3	78.6	240.3	9.3	9.9	56.0										
SWG	56.0	4.0	53.4	59.5	54.4	7.9	24.3													
CROPLAND	122037.9	84344.3	116444.6	129665.3	118478.5	24307.7	56422.1	32312.5												
SWG	3.8	2.6	3.6	4.0	3.7	.8	1.3													
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	266.9 (ACRES)																
GRASSLAND AND PASTURE	17.1	17.1 (TONS)	1591.4 (ACRES)		1591.4 (ACRES)															
SWG	316.3	316.3 (ACRES)	1591.4 (ACRES)																	
SWG	.05	.05 (TONS/ACRE)																		
WOODLAND	220.7	220.7 (TONS)	MISSING DATA	553.5 (ACRES)																
SWG	3271.7	3271.7 (ACRES)																		
SWG	.07	.07 (TONS/ACRE)																		
SUMMARY TOTAL POTENTIAL GROSS EROSION	124166.2	85889.8	114406.4	131911.5	120551.7	24925.8	57535.3	36354.8												
SWG	3.4	2.4	3.3	3.6	3.3	.7	1.3													
PERCENT REDUCTION:	0.0	30.4	4.6	-6.2	2.9	79.9	53.7													

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		AT WT. 231		COUNTY: US SENECA, OHIO			
LAND USE	EXISTING POT. REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GRUPLAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
CROPLAND 1	36453.4	18188.8	34607.7	39222.6	36453.4	5179.3	3000.2
SWG	7.0	3.5	6.7	7.6	7.0	3.1	9.1
CROPLAND 2	146996.4	112991.2	139553.6	158160.7	146996.4	38384.2	14636.2
SWG	3.8	2.9	3.6	4.1	3.8	1.7	5.3
CROPLAND 3	9991.5	9991.5	9485.6	10750.3	9991.5	6316.8	0.0
SWG	1.6	1.6	1.5	1.7	1.6	1.5	0.0
CROPLAND 4	1111.0	1111.0	1054.8	1195.4	1111.0	1354.1	0.0
SWG	.8	.8	.8	.9	.8	.4	0.0
CROPLAND 5	1308.8	1308.8	1318.4	1494.2	1308.8	1453.8	0.0
SWG	1.0	1.0	.9	1.0	1.0	1.0	0.0
CROPLAND 6	150.7	150.7	143.0	162.1	150.7	140.3	0.0
SWG	1.0	1.0	1.0	1.1	1.0	.4	0.0
CROPLAND 10	7817.0	217.5	7421.2	8410.7	7817.0	69.2	69.2
SWG	113.0	3.1	107.2	121.5	113.0	58.0	113.0
CROPLAND	20390.8	143959.5	193564.3	219395.4	20390.8	53424.1	
SWG	3.8	2.7	3.6	4.1	3.8	1.3	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	721.5 (ACRES)			
GRASSLAND AND PASTURE	72.3	72.3 (TONS)	662.2 (ACRES)	3321.1 (ACRES)			
SWG	.11	.11 (TONS/ACRE)					
WOODLAND	803.3	803.3 (TONS)	MISSING DATA	1502.4 (ACRES)			
SWG	.10	.10 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION							
209722.1	148327.3	199144.7	225562.1	209722.1	99303.3	63912.3	
3.3	2.3	3.1	5.5	3.3	1.5		
PERCENT REDUCTION:							
0.0	29.3	5.0	-7.6	0.0	74.9	52.4	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		AT WT. 231		COUNTY: 04 WUPON, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS)	POT-REDUCE AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOD AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)				
1 CROPLAND	6211.7	3162.9	5917.1	6506.3	5941.6	859.3	2602.3	632.5	632.6				
2 CROPLAND	11387.3	10348.5	10847.2	11927.4	10592.2	1575.3	4771.0	3449.5	3449.6				
3 CROPLAND	95.1	88.9	90.5	99.6	90.9	95.1	95.1	39.3	9.9				
4 CROPLAND	1746.0	1746.0	1663.2	1828.8	1670.1	731.5	731.5	1255.3	0.0				
5 CROPLAND	1540.5	1540.5	1467.5	1613.6	1473.5	1540.5	1540.5	1590.2	0.0				
6 CROPLAND	20980.6	16906.8	1995.5	21975.7	20668.3	4801.7	9740.5	7067.2	0.0				
LIVEYARDS AND ORCH.	0.0	0.0	0.0	0.0	197.7		1.4						
GRASSLAND AND PASTURE	2.5	2.5	2.5	2.5	1779.2								
WOODLAND	52.6	52.6	MISSING DATA	49.4									
SUMMARY TOTAL POTENTIAL GROSS EROSION													
	21166.5	17061.3	20165.2	22167.7	20248.5	4887.0	9856.6	7996.3					
PERCENT REDUCTION:													
	2.6	2.1	2.5	2.4	2.5	.6	1.2						
	0.0	19.4	4.7	-0.7	4.3	76.9	53.4						

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 11 JANUARY, 2010									
AT RT. 231											
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	WINTER COVER CROP (TONS) (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	REDUCED TILLAGE: CHISEL P-3W AREA (TONS) (TONS/ACRE)	SOIL MGMT. STOUP LAND AREA (ACRES)	EXISTING SOIL LOSS BY FACTOR (ACRES) (TONS/ACRE)				
CROPLAND 1	287.1 7.3	278.3 7.0	307.0 7.8	280.5 7.1	38.6 1.0	39.3	39.5 7.3				
CROPLAND 2	1801.6 3.4	1492.2 2.7	1969.1 3.6	1799.1 3.3	247.9 .5	543.6	355.8 4.0				
CROPLAND 4	294.4 1.5	285.3 1.4	314.7 1.5	287.8 1.5	122.3 .6	197.7	0.0 0.0				
CROPLAND 5	13.1 1.3	12.6 1.3	14.0 1.4	12.7 1.3	13.1 1.3	9.9	0.0 0.0				
CROPLAND	2036.2 3.1	1948.0 2.5	2361.1 3.0	2379.9 3.0	421.9 .5	798.7					
VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (ACRES)							
GRASSLAND AND PASTURE	6.7 79.1 0.08	6.7 (TONS) 79.1 (ACRES) 0.08 (TONS/ACRE)	OTHER LAND USE AREA	49.4 (ACRES)							
WOODLAND	.3 9.9 0.03	.3 (TONS) 9.9 (ACRES) 0.03 (TONS/ACRE)	MISSING DATA	29.7 (ACRES)							
31WAYWAY TOTAL POTENTIAL GROSS EROSION		2448.1 2525.7 2.8	2700.0 3.0 -6.9	2467.5 2.7 2.3	443.4 .5 82.4	1061.4 1.2 59.3	989.4				
PERCENT REDUCTION:		0.0	20.0	3.1							

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

345IN: MONEY CREEK AT RT. 231 COUNTY: 62 ALL IN RASIN

LAND USE	EXISTING POT. REDUCE LOSS TO PLOWING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLO. AREA (TONS)	SOIL MGMT. 3200P LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
1	46045.5	46229.4	81921.2	91821.9	84511.5	12386.3	13043.0	9063.8
2	226684.1	172416.0	215598.3	242669.6	224208.1	32946.6	59700.6	30789.3
3	15583.3	15577.2	14821.0	16690.3	15418.9	15583.3	9517.3	9.9
4	8837.3	8837.3	8428.6	9380.3	8588.8	3909.9	7162.7	0.0
5	3690.9	3690.9	3312.4	3917.1	3621.7	3690.9	3943.9	0.0
6	150.7	150.7	143.0	162.1	150.7	66.7	148.3	0.0
7	8371.5	257.0	7950.3	8999.9	8355.3	1233.0	79.1	79.1
8	105.8	3.2	100.5	113.4	105.6	15.6	46.9	105.8
9	349363.3	247158.5	332375.2	373541.2	344835.4	67716.7	93698.9	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	98.6	98.6	98.6	6741.0	6741.0	6741.0	6741.0	6741.0
13	1136.7	1136.7	1136.7	1136.7	1136.7	1136.7	1136.7	1136.7
14	1076.9	1076.9	1076.9	2135.0	2135.0	2135.0	2135.0	2135.0
15	12305.8	12305.8	12305.8	12305.8	12305.8	12305.8	12305.8	12305.8
16	357537.3	253292.0	340210.0	352019.0	72397.6	168330.2	109072.3	0.0
17	3.3	2.3	3.1	3.5	3.2	3.7	3.2	3.2
18	0.0	24.2	4.8	-6.9	1.3	79.8	52.9	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 02 CRAWFORD, OHIO									
MELMORE, OH									
BASIN: MONEY CREEK	LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT-REDUCE LOSS TO EROSION (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. 230UP LAND (ACRES)
	230PLAND 1	36052.1 8.3	21646.4 5.0	34399.7 7.9	38305.3 8.8	35000.5 6.0	5107.4 1.2	15622.5 3.5	4358.9 8.3
	230PLAND 2	61535.4 4.0	44199.5 2.8	58715.0 3.8	65381.4 4.2	59740.6 3.8	8717.5 1.7	26665.3 1.7	11169.1 4.6
	230PLAND 3	5117.5 1.7	4882.9 1.5	4882.9 1.5	5437.3 1.8	4968.2 1.8	5117.5 1.7	5117.5 1.7	3024.5 0.8
	230PLAND 4	5659.4 .9	5400.0 .9	5400.0 .9	6013.1 1.0	5494.3 .9	2452.4 .4	2452.4 .4	6316.0 0.0
	230PLAND 5	639.4 .9	610.1 .9	679.4 1.0	679.4 1.0	620.7 .9	639.4 .9	639.4 .9	691.3 0.0
	230PLAND 10	554.5 56.0	39.5 4.0	529.1 53.4	589.2 59.5	538.3 54.4	78.6 7.9	248.3 24.3	9.9 56.0
	230PLAND	109558.3 3.7	77301.7 2.6	104536.8 3.5	116405.7 3.3	106362.6 3.6	22112.8 .7	50737.5 1.7	29959.0
	VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	257.0 (ACRES)			
	GRASSLAND AND PASTURE	14.3 296.5	14.3 (TONS) 296.5 (ACRES)	1561.7 (ACRES)	1561.7 (ACRES)	1561.7 (ACRES)			
	WOODLAND	209.3 3054.2	209.3 (TONS) 3054.2 (ACRES)	454.7 (ACRES)	454.7 (ACRES)	454.7 (ACRES)			
	SUMMARY TOTAL POTENTIAL GROSS EROSION	111280.5 3.3	78583.6 2.3	106190.5 3.1	118221.4 3.5	108041.2 3.2	22541.3 .7	51655.3 1.5	33764.4
	PERCENT REDUCTION:	0.0	29.4	4.6	-6.2	2.9	79.7	53.5	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
: LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 04 HURON, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	VARIATION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WASH. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)		
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(ACRES)	(TONS/ACRE)		
210PLAND 1	6211.7	3162.9	5917.1	6506.3	5941.6	959.3	2502.3	632.6	632.6		
SW6	9.0	5.0	9.4	10.3	9.4	1.4	4.1	9.0	9.0		
210PLAND 2	11387.3	10368.5	10847.2	11927.4	10692.2	1575.3	4771.0	3449.6	3449.6		
SW6	3.3	3.0	3.1	3.5	3.2	.5	1.4	3.3	3.3		
210PLAND 3	95.1	88.9	90.5	99.5	98.9	95.1	93.1	39.3	39.3		
SW6	2.4	2.2	2.3	2.5	2.3	2.4	2.4	3.6	3.6		
210PLAND 4	1746.0	1746.0	1663.2	1828.8	1670.1	731.5	731.5	1255.3	1255.3		
SW6	1.4	1.4	1.3	1.5	1.3	.6	.5	0.0	0.0		
210PLAND 5	1540.5	1540.5	1467.5	1613.5	1473.5	1540.5	1540.5	1590.2	1590.2		
SW6	.9	.9	.9	1.0	.9	.9	.9	0.0	0.0		
CROPLAND	20988.6	16906.8	19985.5	21975.7	20068.3	4801.7	9740.6	7067.2	7067.2		
	3.0	2.4	2.8	3.1	2.8	.7	1.4				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	197.7 (ACRES)					
	0.0	0.0	0.0	0.0	0.0						
GRASSLAND AND PASTURE	2.5	2.5 (TONS)	79.1 (ACRES)	79.1 (ACRES)	1779.2 (ACRES)						
	.03	.03 (TONS/ACRE)	.03 (TONS/ACRE)	.03 (TONS/ACRE)	.03 (TONS/ACRE)						
WOODLAND	52.6	52.6 (TONS)	800.6 (ACRES)	800.6 (ACRES)	49.4 (ACRES)						
	.07	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	21166.5	17067.3	20165.2	22167.7	20248.5	4807.0	9856.6	7996.3	7996.3		
	2.6	2.1	2.5	2.4	2.5	.5	1.2				
PERCENT REDUCTION:	0.0	19.4	4.7	-4.7	4.3	16.9	53.4				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MONEY CREEK		COUNTY: 62 ALL IN BASIN									
		WELLSBOROUGH									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)			
1	59524.1	34613.6	56703.1	58202.5	8515.7	25972.1	7917.2	6573.0			
2	182817.6	143642.1	173893.7	180526.8	26521.5	80122.7	49495.3	23811.0			
3	13939.8	13933.7	13258.9	13746.4	13939.8	13939.8	8579.5	9.9			
4	8222.4	8222.4	7838.8	7981.4	3545.9	3545.9	4559.7	0.0			
5	2962.7	2962.7	2820.7	2877.1	2962.7	2962.7	3153.1	0.0			
6	140.6	140.6	133.5	140.6	62.3	62.3	138.4	0.0			
7	4239.5	128.5	4027.5	4223.3	622.7	1872.9	39.5	107.3			
8	107.3	3.3	102.0	115.3	15.8	47.6					
9	271846.7	203643.6	258676.2	267738.1	56170.6	128378.4	74282.9				
10	3.5	2.6	3.3	3.4	.7	1.5					
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	929.1 (ACRES)							
	0.0	0.0 (ACRES)									
	0.0	0.0 (TONS/ACRE)									
GRASSLAND AND PASTURE	39.6	39.6 (TONS)	OTHER LAND	6009.6 (ACRES)							
	721.5	721.5 (ACRES)	JSE AREA								
	.05	.05 (TONS/ACRE)									
WOODLAND	699.5	699.5 (TONS)	MISSING DATA	1502.4 (ACRES)							
	10842.3	10842.3 (ACRES)									
	.07	.07 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	277184.9	207431.1	263792.2	273307.0	57869.9	131296.0	90549.1				
	3.1	2.3	3.3	3.0	.6	1.6					
PERCENT REDUCTION:	0.0	25.0	4.8	-6.8	1.5	79.1	52.5				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: HONEY CREEK UPSTREAM FROM SILVER CR COUNTY: 02 CRAWFORD, OHIO

LAND USE	EXISTING GROSS EROSION (TONS)	POT-REDUCE LOSS TO T AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW (TONS)	SOIL WENT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)
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LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : TEST MANAGEMENT PRACTICE SCENARIOS

WATERWAY FROM SILVER CR. COUNTY: JS SENECA, OHIO

WATERWAY FROM SILVER CR. COUNTY: JS SENECA, OHIO

LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	LOSS TO 1 PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM PRODUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (ACRES)	SOIL WASH GROUP LAND (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	10917.3	5255.4	11741.4	10917.3	1612.3	4936.9	1779.2	780.9
SW	6.1	3.0	5.9	6.1	.9	2.7	10.2	10.2
CROPLAND 2	43586.1	68129.3	79343.9	43586.1	12743.9	37031.4	23761.6	7462.6
SW	3.5	2.5	3.5	3.5	.5	1.5	5.1	5.1
CROPLAND 3	7344.6	7344.6	7902.5	7344.6	7344.6	7344.6	4645.5	0.0
SW	1.6	1.6	1.7	1.6	1.6	1.5	0.0	0.0
CROPLAND 4	708.2	708.2	762.0	708.2	313.8	313.8	899.9	0.0
SW	.8	.8	.9	.8	.4	.4	0.0	0.0
CROPLAND 5	597.4	597.4	542.8	597.4	597.4	597.4	593.1	0.0
SW	1.0	1.0	1.1	1.0	1.0	1.0	0.0	0.0
CROPLAND 6	100.4	100.4	95.4	100.4	44.5	44.5	99.9	0.0
SW	1.0	1.0	1.1	1.0	.5	.5	0.0	0.0
CROPLAND 7	3685.0	3685.0	3964.8	3685.0	544.2	1632.5	29.7	29.7
SW	124.1	3.0	133.5	124.1	18.3	55.0	124.1	124.1
CROPLAND 8	106939.0	82224.7	101524.4	106939.0	22400.7	51901.3	31767.3	106939.0
SW	3.4	2.6	3.2	3.4	.7	1.6	1.6	1.6
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	365.7 (ACRES)			
SW	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)				
GRASSLAND AND PASTURE	19.0	19.0 (TONS)	2115.2 (ACRES)	2115.2 (ACRES)				
SW	306.4	306.4 (ACRES)						
WOODLAND	327.9	327.9 (TONS)	830.3 (ACRES)	830.3 (ACRES)				
SW	4566.5	4566.5 (ACRES)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	109717.1	104179.4	118023.1	109717.1	23672.1	53330.1	37471.1	109717.1
PERCENT REDUCTION:	0.0	23.0	5.0	0.0	78.4	51.0		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

34 BASIN: HONEY CREEK UPSTREAM FROM SILVER CREEK COUNTY: 34 HURON, OHIO

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO 75% OF EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. SAVINGS AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
1 CROPLAND 346	6211.7 9.8	3162.9 5.0	5917.1 9.4	6506.1 10.3	5941.5 9.4	2602.5 4.1	632.6 9.8	632.6 9.8
2 CROPLAND 346	11387.3 3.3	10368.5 3.0	16847.2 3.1	11927.4 3.5	13892.2 3.2	4771.0 1.4	3449.6 3.3	3449.6 3.3
3 CROPLAND 346	95.1 2.4	88.9 2.2	90.5 2.3	99.5 2.5	90.9 2.3	95.1 2.4	39.5 3.6	39.5 3.6
4 CROPLAND 346	1746.0 1.4	1746.0 1.4	1665.2 1.3	1828.8 1.5	1670.1 1.3	731.5 1.5	1255.3 0.0	1255.3 0.0
5 CROPLAND 346	1540.5 0.9	1540.5 0.9	1467.5 0.9	1613.6 1.0	1473.5 0.9	1540.5 0.9	1590.2 0.0	1590.2 0.0
6 CROPLAND 346	20980.6 3.0	16906.8 2.4	19965.5 2.8	21975.7 3.1	20068.3 2.8	9740.5 1.4	7067.2 1.4	7067.2 1.4
VINEYARDS AND ORCH.	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)
GRASSLAND AND PASTURE	2.5 79.1 0.03	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)	2.5 (TONS) 79.1 (ACRES) 0.03 (TONS/ACRE)
WOODLAND	52.6 800.6 0.07	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)	52.6 (TONS) 800.6 (ACRES) 0.07 (TONS/ACRE)
34 SUMMARY TOTAL POTENTIAL GROSS EROSION	21166.5 2.6	17067.3 2.1	20165.2 2.5	22167.7 2.4	20248.5 2.5	9955.5 1.2	7395.3 1.2	7395.3 1.2
PERCENT REDUCTIONS:	0.0	19.4	4.7	-4.7	4.3	76.9	53.4	53.4

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK									
UPSTREAM FROM SILVER CR COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3D AREA (TONS/ACRE)	SOIL MGMT. 3D3D LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
1. CROPLAND	46590.5	26556.2	44392.4	49555.5	45461.1	6545.3	20205.3	6068.3	5070.6
SYG	7.7	4.4	7.3	8.2	7.5	1.1	3.3		9.6
2. CROPLAND	137213.1	110459.0	130505.5	146741.4	135486.4	19902.9	60105.3	39598.4	18621.8
SYG	3.6	2.9	3.4	3.8	3.5	.5	1.5		4.4
3. CROPLAND	11433.7	11427.3	10874.2	12245.7	11313.1	11433.7	11433.7	7007.3	9.9
SYG	1.6	1.6	1.5	1.7	1.6	1.6	1.6		3.6
4. CROPLAND	7480.0	7480.0	7512.4	8355.7	7645.8	3396.5	3396.5	9174.2	0.0
SYG	1.0	1.0	.9	1.0	.9	.4	.4		0.0
5. CROPLAND	2690.5	2690.5	2461.8	2843.4	2607.4	2690.5	2690.5	2995.1	0.0
SYG	.9	.9	.9	1.0	.9	.9	.9		0.0
6. CROPLAND	100.4	100.4	95.4	108.1	100.4	44.5	44.5	98.4	0.0
SYG	1.0	1.0	1.0	1.1	1.0	.5	.5		0.0
7. CROPLAND	4239.5	128.5	4327.5	4554.0	4223.3	622.7	1872.3	39.3	39.3
SYG	107.3	3.3	102.0	115.3	106.9	15.8	47.4		107.3
8. CROPLAND	210147.7	159242.1	19949.8	224474.3	206837.5	44736.1	99749.7	62433.8	
SYG	3.3	2.5	3.2	3.6	3.3	.7	1.5		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	731.4 (ACRES)					
SYG	0.0	0.0 (ACRES)							
9. PASTURE	35.0	35.0 (TONS)	OTHER LAND	5199.1 (ACRES)					
SYG	672.1	672.1 (ACRES)	JSE AREA						
10. PASTURE	540.6	540.6 (TONS)	MISSING DATA	1265.2 (ACRES)					
SYG	7759.1	7759.1 (ACRES)							
11. PASTURE	21444.4	162655.0	204105.4	228974.1	211095.4	46116.1	102106.6	72538.2	
SYG	3.0	2.2	2.8	3.2	2.9	.6	1.4		
PERCENT REDUCTION:	0.0	24.2	4.8	-6.8	1.6	78.5	52.4		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK UPSTM. FROM AICHOLZ DITCH COUNTY: 02 CRAWFORD, OHIO

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOUGH AND EXISTING ONLY (TONS/ACRE)	FALL PLOUGH ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOUGH AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
CROPLAND 1	29461.5	18137.5	28111.2	31302.3	4173.7	12766.7	3657.2	3657.2
	8.1	5.0	7.7	8.5	7.0	3.3	8.1	8.1
CROPLAND 2	42178.7	31899.9	40245.5	44214.9	40946.5	5975.3	11307.5	7709.7
	3.7	2.8	3.6	4.3	3.6	1.5	4.3	4.3
CROPLAND 3	3994.8	3994.0	3810.9	4243.6	3877.5	3994.0	2322.8	0.0
	1.7	1.7	1.6	1.8	1.7	1.7	1.7	0.0
CROPLAND 4	5425.8	5425.8	5177.1	5764.9	5267.5	2351.2	6059.0	0.0
	.9	.9	.9	1.0	.9	.4	.4	0.0
CROPLAND 5	552.5	552.5	527.2	547.1	536.4	552.5	512.3	0.0
	.9	.9	.9	1.0	.9	.9	.9	0.0
CROPLAND 10	544.5	39.5	529.1	589.2	536.3	78.6	9.9	9.9
	56.0	4.0	53.4	59.5	54.4	7.9	20.3	56.0
VINEYARDS AND ORCH.	82167.0	60049.2	78401.0	87302.6	79770.4	17125.3	23969.2	0.0
	3.4	2.5	3.3	3.6	3.3	.7	1.5	0.0
	0.0	0.0	0.0	0.0	168.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	13.4	13.4	13.4	13.4	1304.7	1304.7	53.4	53.4
	286.6	286.6	286.6	286.6	0.05	0.05	0.05	0.05
WOODLAND	160.0	160.0	160.0	160.0	385.5	385.5	0.0	0.0
	2392.0	2392.0	2392.0	2392.0	0.07	0.07	0.07	0.07
SUMMARY TOTAL POTENTIAL GROSS EROSION	83531.6	61093.8	79711.1	87411.5	81100.2	17549.0	27033.3	27033.3
PERCENT REDUCTION:	0.0	26.9	4.6	-6.2	2.9	79.0	53.4	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		UPSTN. FROM A1C10L2 DITC COUNTY: 03 SENECA, 0410									
LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCED LOSS TO T. AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. STOP LAND (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)			
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)			
CROPLAND 1	4106.6	2167.4	2498.7	4418.5	4106.6	606.5	751.2	543.6			
SWG	5.5	2.9	5.2	5.9	5.5	.8	2.4	6.6			
CROPLAND 2	52307.8	40941.0	49659.3	56280.5	52307.8	7724.8	13967.3	5347.4			
SWG	3.8	3.0	3.6	4.1	3.8	.6	1.7	5.1			
CROPLAND 3	4123.0	4123.0	3914.2	4436.1	4123.0	4123.0	2609.4	0.0			
SWG	1.6	1.6	1.5	1.7	1.6	1.6	1.5	0.0			
CROPLAND 4	441.7	441.7	419.4	475.3	441.7	195.7	533.7	0.0			
SWG	.8	.8	.8	.9	.8	.4	.4	0.0			
CROPLAND 5	508.9	508.9	443.1	547.5	508.9	508.9	494.2	0.0			
SWG	1.0	1.0	1.0	1.1	1.0	1.0	1.3	0.0			
CROPLAND 8	60.3	60.3	57.2	64.8	60.3	26.7	59.3	0.0			
SWG	1.0	1.0	1.0	1.1	1.0	.5	.5	0.0			
CROPLAND	61548.3	48243.2	54431.9	66222.7	61548.3	13185.6	19315.3				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	257.0 (ACRES)						
GRASSLAND AND PASTURE	168.0	168.0 (TONS)	168.0 (TONS)	168.0 (TONS)	1255.3 (ACRES)						
WOODLAND	152.4	152.4 (TONS)	152.4 (TONS)	152.4 (TONS)	405.3 (ACRES)						
	2866.4	2866.4 (TONS)	2866.4 (TONS)	2866.4 (TONS)							
	.05	.05 (TONS/ACRE)	.05 (TONS/ACRE)	.05 (TONS/ACRE)							
ANNUAL TOTAL POTENTIAL GROSS EROSION	62881.0	49323.3	59705.4	67644.1	62881.0	13600.2	21755.0				
PERCENT REDUCTION:	2.9	2.3	2.7	3.1	2.9	.6	1.4				
	0.0	21.6	5.1	-7.6	0.0	78.4	51.0				

Lake Erie Wastewater Management Study U.S. Army Corps of Engineers, Buffalo District
 Land Management Alternatives: Best Management Practice Scenarios

BASIN: HONEY CREEK											UPSTM. FROM AIC40LZ DITC COUNTY: ON TUDON, OHIO										
LAND USE	EXISTING GROSS EROSION (TONS)	POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOU AREA (TONS)	SOIL WASH. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)											
1 CROPLAND 1	6211.7	3162.9	5917.1	6586.3	5941.6	859.3	2682.3	632.6	632.6	9.8											
346	9.8	5.0	9.8	10.3	9.8	1.4	4.1														
2 CROPLAND 2	11387.3	10368.5	12847.2	11927.4	10892.2	1575.3	4771.2	3449.6	3449.6	3.3											
346	3.3	3.0	3.1	3.5	3.2	.5	1.4														
3 CROPLAND 3	95.1	88.9	90.5	99.6	90.9	95.1	95.1	39.5	39.5	9.9											
343	2.4	2.2	2.5	2.5	2.5	2.4	2.4			3.6											
4 CROPLAND 4	1746.0	1746.0	1663.2	1828.4	1670.1	751.5	751.5	1255.3	1255.3	0.8											
346	1.4	1.4	1.3	1.5	1.3	.6	.6			0.0											
5 CROPLAND 5	1540.5	1540.5	1467.5	1613.6	1473.5	1540.5	1540.5	1698.2	1698.2	0.0											
343	.9	.9	.9	1.1	.9	.9	.9			0.0											
1 CROPLAND 1	20980.6	16906.8	19985.5	21975.7	20068.3	4501.7	9740.5	7967.2	7967.2												
340	3.0	2.4	2.8	3.1	2.8	.7	1.4														
2 VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	137.7 (ACRES)																
3 GRASSLAND AND PASTURE	2.5	2.5 (TONS)	79.1 (ACRES)	1775.2 (ACRES)																	
343	.03	.03 (TONS/ACRE)																			
4 WOODLAND	52.6	52.6 (TONS)	MISSING DATA	49.4 (ACRES)																	
340	.07	.07 (TONS/ACRE)																			
SUMMARY TOTAL POTENTIAL GROSS EROSION	21166.5	17667.3	20165.2	22167.7	20248.5	4887.6	9855.5	7996.3	7996.3												
PERCENT REDUCTION:	0.0	19.4	4.7	-4.7	4.2	76.9	53.4														

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASEIN: MONEY CREEK UPSTM. FROM ALCANIZ DITCH COUNTY: 62 ALL IN PASTIN

LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL NGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
CROPLAND 1 SAG	39779.9 7.9	23467.8 4.7	37927.0 7.5	42227.7 8.4	5639.5 1.1	17188.5 3.4	5040.9	4833.4 9.1
CROPLAND 2 SAG	105918.9 3.7	81255.5 2.9	100795.7 3.5	113071.1 3.9	15281.5 .5	46241.3 1.5	24540.4	16506.6 4.4
CROPLAND 3 SAG	8212.0 1.7	8205.9 1.7	7815.7 1.6	8779.3 1.8	8212.0 1.7	8212.0 1.7	4971.8	9.9 3.6
CROPLAND 4 SAG	7613.5 1.0	7613.5 1.0	7259.7 .9	8049.0 1.0	3278.4 .4	3273.4 .4	7448.1	0.0 0.0
CROPLAND 5 SAG	2601.9 .9	2601.9 .9	2477.8 .9	2748.2 1.0	2601.9 .9	2601.9 .9	2797.2	0.0 0.0
CROPLAND 6 SAG	60.3 1.0	60.3 1.0	57.2 1.0	54.8 1.1	25.7 .5	25.7 .5	59.3	0.0 0.0
CROPLAND 7 SAG	554.5 56.0	39.5 4.0	529.1 53.4	589.2 59.5	538.3 54.4	240.3 24.3	9.9	9.9 56.0
CROPLAND 8 SAG	164741.0 3.3	125240.4 2.5	156862.2 3.2	175549.3 3.6	35128.6 .7	77789.3 1.5	49371.5	
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	622.7 (ACRES)			
GRASSLAND AND PASTURE	24.8 533.7	24.8 (TONS) 533.7 (ACRES)	OTHER LAND USE AREA	4339.2 (ACRES)				
WOODLAND	365.1 6059.0	365.1 (TONS) 6059.0 (ACRES)	MISSING DATA	840.2 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION	167610.0 3.0	127520.5 2.2	159612.9 2.4	174540.6 3.1	36041.6 .6	79353.3 1.4	56804.5	
PERCENT REDUCTION:	0.0	23.9	4.4	-6.5	2.0	78.5	52.7	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HONEY CREEK		ATTICANT 4		COUNTY: J2 CRAWFORD, OHIO															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
1 CROPLAND	29461.5	18137.5	28111.2	31302.9	28602.2	4173.7	12766.7	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2	3657.2
2 CROPLAND	42178.7	31899.9	40245.5	44414.9	40948.5	5975.3	18277.4	11307.5	7709.7	7709.7	7709.7	7709.7	7709.7	7709.7	7709.7	7709.7	7709.7	7709.7	7709.7
3 CROPLAND	3994.0	3994.0	3810.9	4243.6	3877.5	3994.0	3994.0	2322.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 CROPLAND	5425.8	5425.8	5177.1	5764.9	5267.5	2351.2	2351.2	6059.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 CROPLAND	552.5	552.5	527.2	587.1	536.4	552.5	552.5	612.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 CROPLAND	554.5	39.5	529.1	589.2	538.3	78.6	240.3	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
7 CROPLAND	82167.0	60049.2	78401.0	87302.6	79770.4	17125.5	38182.1	23359.2	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
8 VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	168.6 (ACRES)	168.6 (ACRES)	168.6 (ACRES)	168.6 (ACRES)	168.6 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9 GRASSLAND AND PASTURE	13.4	13.4 (TONS)	JATER LAND USE AREA	1304.7 (ACRES)	1304.7 (ACRES)	1304.7 (ACRES)	1304.7 (ACRES)	1304.7 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10 WOODLAND	160.0	160.0 (TONS)	MISSING DATA	585.1 (ACRES)	585.1 (ACRES)	585.1 (ACRES)	585.1 (ACRES)	585.1 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS EROSION																			
83531.6		61093.8		77711.1		86741.5		41100.3		17549.0		38910.4		27033.3					
3.1		2.3		2.3		3.1		3.0		.5		1.1							
PERCENT REDUCTION: 0.0		26.5		4.6		-6.2		2.9		79.0		53.4							

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		ATTICART 4		COUNTY: 04 MURON, OHIO											
LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO SOIL AND EXISTING ONLY (TONS)	REDUCE SOIL LOSS TO EXISTING ONLY (TONS)	SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CRDP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. STUMP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)					
CROPLAND 1	6211.7	3162.9	5917.1	6506.3	5941.6	859.3	2602.3	632.6	632.6	9.8					
346	9.8	5.6	9.4	10.3	9.4	1.4	4.1	3449.6	3449.6	3.3					
CROPLAND 2	11387.3	10368.5	10447.2	11927.4	10892.2	1575.3	9771.0	3449.6	3449.6	3.3					
346	3.3	3.0	3.1	3.5	3.2	.5	1.4	39.3	39.3	2.9					
CROPLAND 3	95.1	88.9	90.3	99.5	90.9	95.1	95.1	39.3	39.3	2.9					
346	2.4	2.2	2.3	2.5	2.3	2.4	2.4	1255.3	1255.3	0.0					
CROPLAND 4	1746.0	1746.0	1663.2	1828.8	1670.1	731.5	731.5	1698.2	1698.2	0.0					
346	1.4	1.4	1.3	1.5	1.3	.6	.5	7067.2	7067.2	0.0					
CROPLAND 5	1540.5	1540.5	1467.3	1513.6	1473.5	1540.5	1540.5	3449.6	3449.6	3.3					
346	.9	.9	.9	1.0	.9	.9	.9	1255.3	1255.3	0.0					
CROPLAND	20980.6	16906.8	19985.5	21975.7	20068.3	4801.7	9740.5	7067.2	7067.2	1.4					
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	197.7 (ACRES)										
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)											
	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)											
GRASSLAND AND PASTURE	1.7	1.7 (TONS)	1.7 (TONS)	1.7 (TONS)	1779.2 (ACRES)										
	69.2	69.2 (ACRES)	69.2 (ACRES)	69.2 (ACRES)											
	.02	.02 (TONS/ACRE)	.02 (TONS/ACRE)	.02 (TONS/ACRE)											
WOODLAND	52.6	52.6 (TONS)	52.6 (TONS)	52.6 (TONS)	49.4 (ACRES)										
	800.6	800.6 (ACRES)	800.6 (ACRES)	800.6 (ACRES)											
	.07	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)											
SUMMARY TOTAL POTENTIAL GROSS EROSION	21165.8	17066.7	20164.5	22167.1	20247.8	4886.2	9855.3	7986.4	7986.4	1.2					
	2.7	2.1	2.5	2.8	2.5	.6	1.2								
PERCENT REDUCTION:	0.0	19.4	4.7	-4.7	4.3	76.9	53.4								

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 62 ALL IN RASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH: 5000 LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES)		
CROPLAND 1	36373.3	21699.5	34692.9	38562.5	35244.0	3136.4	15579.4	4438.0	4394.5		
	8.2	4.9	7.6	8.7	7.0	1.2	3.5		4.3		
CROPLAND 2	72902.5	58828.2	69451.1	77547.1	71176.2	10405.6	31614.0	20361.0	12044.4		
	3.6	2.9	3.4	3.8	3.5	.5	1.5		4.2		
CROPLAND 3	6682.5	6676.3	6363.6	7133.6	6561.9	6682.5	6682.5	4003.1	9.9		
	1.7	1.7	1.6	1.8	1.6	1.7	1.7		3.6		
CROPLAND 4	7567.0	7567.0	7215.5	8019.0	7332.9	3257.8	3257.8	7788.7	0.0		
	1.0	1.0	.9	1.0	.9	.4	.4		9.0		
CROPLAND 5	2125.4	2125.4	2025.4	2235.5	2342.3	2125.4	2125.4	2332.7	0.0		
	.9	.9	.9	1.0	.9	.9	.9		0.0		
CROPLAND 10	554.5	39.5	529.1	589.2	538.3	78.6	240.3	9.9	9.9		
	56.0	4.0	53.4	59.5	54.4	7.9	24.3		56.0		
CROPLAND	126205.2	96935.9	120277.6	134086.3	122895.6	27586.3	54593.4	59333.9			
	3.2	2.5	3.1	3.4	3.2	.7	1.3				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	533.7 (ACRES)						
	0.00	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.00 (TONS/ACRE)							
PASTURE AND PASTURE	17.0	17.4 (TONS)	0.0 (ACRES)	3815.3 (ACRES)							
	405.3	405.3 (ACRES)	0.0 (ACRES)								
	.04	.04 (TONS/ACRE)	.04 (TONS/ACRE)								
WOODLAND	273.7	273.7 (TONS)	MISSING DATA	830.3 (ACRES)							
	4428.1	4428.1 (ACRES)									
	.86	.86 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	128896.4	99071.9	122856.4	136927.7	125524.1	28508.6	61027.1	44597.5			
	2.9	2.2	2.8	3.1	2.8	.6	1.4				
PERCENT REDUCTION:	8.0	23.1	4.7	-6.2	2.6	77.9	52.7				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 02 CRAWFORD, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCE LOSS TO T. AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL P. 3D AREA (TONS)	521L WENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)		
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(ACRES)	(TONS/ACRE)		
CROPLAND 1	21667.1 8.5	12661.7 5.0	20674.0 8.1	23021.3 9.0	21035.2 8.2	3069.5 1.2	9389.1 3.7	2550.1	2550.1		
CROPLAND 2	21182.2 3.5	14867.6 2.7	26135.0 3.7	22421.1 4.1	20446.7 3.6	2989.5 .6	9144.3 1.7	5406.7	3706.6		
CROPLAND 3	1988.0 1.8	1988.0 1.8	1896.9 1.7	2112.2 1.9	1930.0 1.7	1988.0 1.8	1988.0 1.3	1187.0	0.0		
CROPLAND 4	3458.8 .9	3458.8 .9	3300.2 .9	3674.9 1.0	3357.9 .9	1498.8 .4	1498.8 .4	3835.1	0.0		
CROPLAND 5	279.1 .9	279.1 .9	266.4 .9	296.6 1.0	271.0 .9	279.1 .9	279.1 .9	306.4	0.0		
CROPLAND 10	554.5 56.0	39.5 4.0	529.1 53.4	569.2 59.5	538.3 54.4	78.6 7.9	240.3 24.3	9.9	56.0		
VINEYARDS AND ORCH.	49849.7 3.7	33294.7 2.5	46801.6 3.5	52115.3 3.9	47619.1 3.6	9903.5 .7	22519.6 1.7	13215.2			
GRASSLAND AND PASTURE	9.6 287.6 .05	9.6 (TONS) 207.6 (ACRES) .05 (TONS/ACRE)	OTHER LAND JSE AREA	672.1 (ACRES)							
WOODLAND	102.8 1373.9 .07	102.8 (TONS) 1373.9 (ACRES) .07 (TONS/ACRE)	MISSING DATA	187.8 (ACRES)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	49786.1 3.3	33831.1 2.3	47509.4 3.2	52890.6 3.5	48337.3 3.2	10143.0 .7	22933.5 1.5	14984.5			
PERCENT REDUCTION:	0.0	32.0	4.6	-6.2	2.9	79.6	53.9				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		WIS ROAD		COUNTY: OS WENEGA, OHIO															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH. LOSS > T FACTOR (TONS/ACRE)												
CROPLAND 2	74.6 1.9	74.6 1.9	70.2 1.6	80.3 2.0	74.6 1.9	53.1 .5	39.5												
CROPLAND	74.6 1.9	74.6 1.9	70.2 1.6	80.3 2.0	74.6 1.9	53.1 .5	39.5												
VINEYARDS AND ORCH.	0.0 0.00	0.0 0.00	0.0 0.00	0.0 0.00	9.9 0.00	9.9 0.00	0.0												
GRASSLAND AND PASTURE	0.0 0.00	0.0 0.00	0.0 0.00	0.0 0.00	9.9 0.00	9.9 0.00	0.0												
WOODLAND	0.0 0.00	0.0 0.00	0.0 0.00	0.0 0.00	365.7 0.00	365.7 0.00	0.0												
SUMMARY TOTAL POTENTIAL GROSS EROSION		74.6 1.9	74.6 1.9	70.2 1.6	80.3 2.0	74.6 1.9	53.1 .5												
PERCENT REDUCTIONS:		0.0	0.0	5.1	-7.5	0.0	85.3												

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MONEY CREEK		COUNTY: LAKE HURON, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE (TONS/ACRE)	FALL PLOWING (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
CROPLAND 1	393.7	197.7	375.1	412.4	376.6	54.5	165.8	39.5	39.5	39.5	39.5
346	18.8	5.0	9.5	10.4	9.5	1.4	4.2	10.0	10.0	10.0	10.0
CROPLAND 2	2267.9	2075.7	2160.3	2375.5	2169.3	313.7	958.2	691.9	691.9	691.9	691.9
346	3.3	3.0	3.1	3.4	3.1	.5	1.4	3.3	3.3	3.3	3.3
CROPLAND 3	16.7	16.7	15.9	17.5	15.9	16.7	16.7	9.9	9.9	9.9	9.9
346	1.7	1.7	1.6	1.8	1.6	1.7	1.7	0.0	0.0	0.0	0.0
CROPLAND 4	622.5	622.5	593.0	652.0	595.4	260.8	260.8	436.9	436.9	436.9	436.9
346	1.4	1.4	1.4	1.5	1.4	.6	.6	0.0	0.0	0.0	0.0
CROPLAND 5	248.9	248.9	237.1	260.8	238.1	248.9	248.9	227.3	227.3	227.3	227.3
346	1.1	1.1	1.0	1.1	1.0	1.1	1.1	0.0	0.0	0.0	0.0
CROPLAND	3549.7	3161.5	3381.4	3718.2	3395.3	894.6	1641.6	1403.5	1403.5	1403.5	1403.5
	2.5	2.3	2.4	2.6	2.4	.6	1.2				
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	29.7	29.7				
	0.00	0.00	0.00	0.00	0.00						
GRASSLAND AND PASTURE	1.8	1.8	1.8	1.8	1.8	89.0	89.0				
	.04	.04	.04	.04	.04						
WOODLAND	.5	.5	.5	.5	.5	0.0	0.0				
	19.8	19.8	19.8	19.8	19.8						
	.03	.03	.03	.03	.03						
SUMMARY TOTAL POTENTIAL GROSS EROSION	3552.0	3163.8	3383.7	3723.5	3397.6	896.9	1643.3	1472.7	1472.7	1472.7	1472.7
	2.4	2.1	2.3	2.5	2.3	.6	1.1				
PERCENT REDUCTION:	8.0	10.9	4.7	-4.7	4.3	74.7	53.7				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HONEY CREEK		COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO FLOODING AND EXISTING ONLY (TONS)	SOIL PLOUING ONLY (TONS)	SPRING PLOUING ONLY (TONS)	FALL PLOUING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WGT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1" FACTOR (TONS/ACRE)	
1 CROPLAND	22068.8	12459.3	21049.1	23433.7	21011.8	3124.0	9554.0	2589.7	4399.5	9.5	
546	8.5	5.0	8.1	9.0	8.3	1.2	3.7				
2 CROPLAND	23467.3	17040.5	22348.1	24901.0	22752.7	3317.3	10136.3	6148.0	4399.5	4.5	
546	3.8	2.8	3.6	4.1	3.7	.5	1.5				
3 CROPLAND	2004.7	2004.7	1912.8	2129.7	1946.6	2004.7	2004.7	1116.9	0.0	0.0	
546	1.8	1.8	1.7	1.9	1.7	1.8	1.8				
4 CROPLAND	4081.3	4081.3	3893.2	4326.9	3953.3	1759.5	1753.5	4270.0	0.0	0.0	
546	1.0	1.0	.9	1.0	.9	.4	.4				
5 CROPLAND	528.1	528.1	503.5	557.3	509.1	528.1	528.1	533.7	0.0	0.0	
546	1.0	1.0	.9	1.0	1.0	1.0	1.0				
10 CROPLAND	554.5	39.5	529.1	589.2	538.3	74.6	248.3	9.9	9.9	56.0	
546	56.0	4.0	53.4	59.5	54.4	7.9	24.3				
1 CROPLAND	52696.7	36553.4	50275.8	55937.8	51111.2	10912.3	24223.5	14668.2			
	3.6	2.5	3.4	3.4	3.5	.7	1.7				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	118.6 (ACRES)							
	0.0	0.0 (ACRES)									
	0.0	0.0 (TONS/ACRE)									
PASTURE AND PASTURE	11.5	11.5 (TONS)	JATER LAND USE AREA	771.0 (ACRES)							
	257.0	257.0 (ACRES)									
	.04	.04 (TONS/ACRE)									
WOODLAND	103.3	103.3 (TONS)	MISSING DATA	553.5 (ACRES)							
	1393.7	1393.7 (ACRES)									
	.07	.07 (TONS/ACRE)									
3 SUMMARY TOTAL POTENTIAL GROSS EROSION	54602.7	37911.9	52099.7	57953.8	52963.5	11297.7	25183.9	16872.4			
	3.2	2.2	3.1	3.4	3.1	.7	1.5				
PERCENT REDUCTION:	0.0	30.6	4.6	-6.1	3.0	79.3	53.3				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HONEY CREEK TRIBUTARY		J2 CRAWFORD, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO 1 AND EXISTING ONLY (TONS/ACRE)	SPRING PLOUGHING ONLY (TONS/ACRE)	FALL PLOUGHING ONLY (TONS/ACRE)	WINTER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. STILL LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)		
CROPLAND 1	2863.4	1638.9	2752.2	3042.4	2779.9	405.6	1240.9	326.2	326.2		
SHRUBS	8.0	5.0	8.4	9.3	8.5	1.2	3.8	8.4	8.4		
CROPLAND 2	5858.2	4615.0	5562.0	6215.7	5619.5	828.8	2535.3	1581.3	1136.7		
SHRUBS	3.7	2.9	3.5	3.9	3.6	.5	1.6	4.1	4.1		
CROPLAND 3	380.9	360.9	363.4	404.7	369.7	380.9	380.9	227.3	0.0		
SHRUBS	1.7	1.7	1.6	1.8	1.6	1.7	1.7	0.0	0.0		
CROPLAND 4	1049.2	1049.2	1001.1	1114.8	1018.6	454.7	454.7	1225.5	0.0		
SHRUBS	.9	.9	.9	.9	.8	.4	.4	0.0	0.0		
CROPLAND 5	77.0	77.0	73.4	81.4	74.7	77.0	77.0	128.5	0.0		
SHRUBS	.6	.6	.6	.6	.6	.6	.5	0.0	0.0		
CROPLAND	10220.6	7753.0	9752.1	10859.4	9922.4	2147.0	4689.4	3489.1			
SHRUBS	2.9	2.2	2.8	3.1	2.8	.6	1.5				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)					
GRASSLAND AND PASTURE	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)					
WOODLAND	316.3	316.3 (TONS)	316.3 (TONS)	316.3 (TONS)	316.3 (TONS)	0.0 (ACRES)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	10233.9	7766.3	9765.4	10872.7	9935.7	2160.3	4701.7	3805.4			
PERCENT REDUCTION:	0.0	24.1	4.6	-6.2	2.9	78.9	54.1				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HONEY CREEK TRIBUTARY WEIS ROAD COUNTY: CATTARAUGUS, NY

LAND USE	EXISTING POTENTIAL SOIL SPRING LOSS TO Y PLUING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. SLOPP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
CROPLAND 1	2569.6	1334.4	2487.7	2451.9	1076.6	266.3	266.3
CROPLAND 2	3671.7	3261.8	3497.5	3512.1	1539.3	1087.3	1087.3
CROPLAND 4	306.9	306.9	292.4	293.6	128.6	227.3	227.3
CROPLAND 5	905.6	905.6	862.7	866.3	905.6	1797.1	1797.1
CROPLAND	7453.8	5808.7	7100.3	7129.9	3649.1	2679.6	2679.6
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	39.5	39.5	39.5	39.5	39.5	39.5	39.5
WOODLAND	25.8	25.8	25.8	25.8	25.8	25.8	25.8
SUMMARY TOTAL POTENTIAL GROSS EROSION	7480.4	5835.3	7126.9	7156.5	3679.7	3094.2	3094.2
PERCENT REDUCTION:	0.0	22.0	4.7	4.3	74.3	50.9	50.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: HONEY CREEK TRIBUTARY		COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CATTLE PADD (TONS/ACRE)	SOIL MGMT. STRIP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)				
CROPLAND 1 S46	5433.0 9.2	2965.3 5.0	5179.9 8.7	5733.9 9.7	5237.6 8.8	761.1 1.3	2337.4 3.3	593.1 9.2			
CROPLAND 2 S46	9521.8 3.6	7876.7 3.0	9079.5 3.4	10661.6 3.4	9191.5 3.4	1536.7 1.3	4073.4 1.3	2223.9 3.7			
CROPLAND 3 S46	380.9 1.7	380.9 1.7	363.4 1.6	404.7 1.6	369.7 1.6	380.9 1.7	380.9 1.7	0.0 0.0			
CROPLAND 4 S46	1356.2 0.9	1356.2 0.9	1293.5 0.9	1436.3 1.0	1312.2 0.9	583.3 0.4	583.3 0.4	0.0 0.0			
CROPLAND 5 S46	982.6 0.8	982.6 0.8	936.1 0.8	1030.4 0.8	941.0 0.8	982.6 0.8	982.6 0.8	0.0 0.0			
CROPLAND	17674.5 2.9	13561.7 2.2	16852.4 2.7	18666.9 3.0	17052.2 2.8	4044.6 0.7	8337.5 1.4	6167.7 1.4			
VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	98.8 (ACRES)					
PASTURE AND PASTURE	39.5 0.02	39.5 (TONS) 0.02 (ACRES)	39.5 (TONS) 0.02 (ACRES)	39.5 (TONS) 0.02 (ACRES)	39.5 (TONS) 0.02 (ACRES)	1650.7 (ACRES)					
WOODLAND	39.2 0.06	39.2 (TONS) 0.06 (ACRES)	39.2 (TONS) 0.06 (ACRES)	39.2 (TONS) 0.06 (ACRES)	39.2 (TONS) 0.06 (ACRES)	0.0 (ACRES)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	17714.5 2.6	13601.7 2.0	16892.4 2.5	18706.9 2.7	17092.2 2.5	4084.6 0.6	8377.5 1.2	5959.6 1.2			
PERCENT REDUCTION:	0.0	23.2	4.6	-5.6	3.5	76.9	52.7				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MONEY CREEK		COUNTY: 02 CATTARAUGUS, OHIO		ALL IN BASIN		
LAND USE		RT.133		RT.133		
EXISTING GROSS EROSION (TNS)	EXISTING POT. REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TNS)	CALL PLOWING ONLY (TNS)	WINTER COVER CROP (TNS)	MAXIMUM REDUCTION TILLAGE (TNS)	REDUCED TILLAGE CHISEL PLOW AREA (TNS)	SOIL LOSS FACTOR (TNS/ACRE)
13502.3	7373.6	12683.6	14366.2	13108.5	1912.8	1892.6
346	1	4.1	5.6	8.7	8.8	3.3
11802.0	8314.5	11337.4	12624.6	11535.4	1583.3	3192.6
346	2	3.7	2.6	3.6	4.0	1.6
1118.5	1118.5	1067.3	1188.4	1085.9	1118.5	573.3
343	3	2.0	2.0	2.1	2.0	0.0
2798.8	2798.8	2670.5	2973.7	2717.1	1212.8	3103.6
346	4	3.9	3.9	1.3	3.4	0.0
74.4	74.4	71.0	79.0	72.2	74.4	89.0
346	5	3.8	3.8	3.8	3.8	0.0
554.5	39.5	529.1	589.2	538.3	78.6	9.9
56.0	4.0	53.4	59.5	54.4	7.9	56.0
29930.5	19719.3	24558.8	31801.1	29057.4	6080.4	9051.0
3.5	2.3	3.4	3.4	3.4	3.7	1.5
0.0	0.0	0.0	39.5	39.5		
0.0	0.0	0.0				
0.00	0.00	0.00				
7.2	7.2	7.2	OTHER LAND JSC AREA	464.6		
136.4	136.4	136.4				
0.05	0.05	0.05				
77.2	77.2	MISSING DATA	98.8	98.8		
939.0	939.0	939.0				
0.08	0.08	0.08				
SUMMARY TOTAL POTENTIAL GROSS EROSION						
30326.1	20009.0	32216.1	29444.0	6228.7	13072.7	3627.2
3.2	2.1	3.0	3.3	3.1	1.6	
PERCENT REDUCTION:						
0.0	34.0	4.6	-6.2	2.9	79.5	54.3

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: MONAHEE LAKE		TR16. BELOW MONAHEE		COUNTY: 33 SENECA, OHIO		ALL IN BASIN			
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	LOSS TO F. PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL LOSS > T FACTOR (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	
1. CROPLAND 346	2885.9 6.8	959.7 3.2	1904.3 6.6	2158.2 7.3	2085.5 6.8	889.7 5.3	296.2 1.0	296.5 1.0	237.2 7.7
2. CROPLAND 346	10431.1 4.9	6552.3 3.1	9903.0 4.6	11223.4 5.2	10431.1 4.9	4621.4 2.2	1540.5 .7	2144.9 2.2	1798.9 5.2
3. CROPLAND 346	483.8 1.6	483.8 1.6	459.3 1.5	520.5 1.7	483.6 1.6	483.3 1.5	483.6 1.6	386.4 1.5	0.8 0.8
4. CROPLAND 346	57.8 .7	57.8 .7	54.9 .7	62.2 .8	57.6 .7	25.6 .5	25.6 .5	79.1 .5	0.8 0.8
5. CROPLAND 346	75.4 1.1	75.4 1.1	71.6 1.0	81.2 1.2	75.4 1.1	75.4 1.1	75.4 1.1	69.2 1.1	0.0 0.0
6. CROPLAND 346	18.0 1.8	18.0 1.8	9.5 1.0	10.4 1.1	10.0 1.0	4.4 .4	4.4 .4	9.9 .4	0.8 0.0
7. CROPLAND	13064.0 4.5	8130.0 2.8	12402.6 4.3	14056.4 4.8	15664.0 4.5	6097.3 2.1	2425.9 .5	2706.7 2.1	
8. VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	19.4 (ACRES)				
9. PASTURE AND PASTURE	1.9 39.5	1.9 (TONS) 39.5 (ACRES)	OTHER LAND USE AREA 0.05 (TONS/ACRE)		69.2 (ACRES)				
10. WOODLAND	28.8 365.7	28.8 (TONS) 365.7 (ACRES)	MISSING DATA 0.08 (TONS/ACRE)		19.8 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION									
	13173.0 4.0	6209.5 2.5	12567.6 5.4	14171.1 4.5	13173.0 4.0	6166.7 1.9	2471.3 .7	3331.3 1.9	
PERCENT REDUCTIONS:									
	0.0	37.7	5.1	-7.6	9.0	81.2	53.2		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: HUCKEY CREEK		AT RT. 67		COUNTY: 02 CHAMFORD, OHIO															
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	EXISTING POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	JANICE COVER (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)										
CROPLAND 1	7091.4	3162.9	6718.6	7481.4	6836.0	997.5	3051.3	532.3	632.6										
S&G	11.1	5.0	10.5	11.9	10.8	1.6	4.4		11.1										
CROPLAND 2	4923.4	1364.7	4697.8	5231.1	4779.8	697.5	2133.3	1245.4	974.5										
S&G	4.0	2.7	3.0	4.2	3.4	.6	1.7		4.6										
CROPLAND 3	379.3	379.3	361.9	403.0	368.3	379.3	379.3	237.2	0.0										
S&G	1.6	1.6	1.5	1.7	1.6	1.6	1.6		0.0										
CROPLAND 4	26.6	26.6	25.4	28.2	25.8	11.5	11.3	39.5	0.0										
S&G	.7	.7	.5	.7	.7	.3	.3		0.0										
CROPLAND 5	109.1	109.1	104.1	115.9	105.9	109.1	109.1	98.9	0.0										
S&G	1.1	1.1	1.1	1.2	1.1	1.1	1.1		0.0										
CROPLAND 6	12479.8	7042.6	11907.8	13259.6	12115.8	2194.9	5684.7	2233.3											
S&G	5.5	3.1	5.3	5.9	5.4	1.0	2.5												
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY			9.9 (ACRES)													
	0.00	0.00 (TONS/ACRE)																	
GRASSLAND AND PASTURE	2.8	2.8 (TONS)	OTHER LAND			29.7 (ACRES)													
	19.8	19.8 (ACRES)	JSE AREA																
	.14	.14 (TONS/ACRE)																	
WOODLAND	10.8	10.8 (TONS)	MISSING DATA			98.8 (ACRES)													
	197.7	197.7 (ACRES)																	
	.05	.05 (TONS/ACRE)																	
SYNTHETIC TOTAL POTENTIAL GROSS EROSION																			
	12492.9	7338.3	12398.1	13803.9	12614.4	2286.8	5926.1	2369.3											
	5.1	2.9	4.8	5.4	4.9	.9	2.3												
PERCENT REDUCTIONS:																			
	0.0	43.5	4.6	-6.2	2.9	82.3	54.4												

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BUCKEYE CREEK										AT RT. 67										COUNTY: 03 SEMECA, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO EROSION (TONS/ACRE)	REDUCE EXISTING AND POT. LOSS (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)																			
CROPLAND 1	106.6	3.6	106.6	101.2	114.6	106.6	15.7	47.2	29.7	0.0																			
CROPLAND 2	1643.8	3.3	1148.8	1560.5	1768.6	1643.8	242.8	729.5	504.1	134.4																			
CROPLAND 3	156.1	1.6	156.1	148.2	167.9	156.1	156.1	156.1	98.3	0.0																			
CROPLAND 4	156.1	1.6	156.1	1.5	1.7	1.6	1.6	1.6	1.6	0.0																			
CROPLAND 5	25.9	.9	25.9	24.6	27.9	25.9	25.9	25.9	29.7	0.0																			
CROPLAND 6	1932.4	2.9	1437.4	1834.5	2079.0	1932.4	440.5	957.5	662.3	0.0																			
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9	9.9	0.0																			
GRASSLAND AND PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	59.3	59.3	59.3	0.0																			
WOODLAND	0.7	19.8	0.7	0.7	0.7	0.7	39.5	39.5	39.5	0.0																			
SUMMARY TOTAL POTENTIAL GROSS EROSION										SUMMARY TOTAL POTENTIAL GROSS EROSION																			
2045.0										2045.0																			
1521.4										1521.4																			
2.8										2.8																			
2.1										2.1																			
5.1										5.1																			
25.6										25.6																			
0.0										0.0																			
PERCENT REDUCTION:										PERCENT REDUCTION:																			
77.2										77.2																			
50.4										50.4																			

LAME CREEK WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BUCKEYE CREEK		AT RT. 67		COUNTY: 62 ALL IN BASIN										
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE)						
CROPLAND 1	7211.3	3319.0	6081.2	7663.9	7006.5	1021.8	672.1	642.5						
546	18.7	9.9	10.2	11.4	10.4	1.5	4.5	31.3						
CROPLAND 2	6915.3	9861.7	6595.7	7372.0	6763.7	987.1	1981.9	1116.9						
546	3.7	2.6	3.5	3.9	3.6	.5	1.5	4.8						
CROPLAND 3	535.4	535.4	510.1	570.9	524.3	535.4	336.1	0.0						
546	1.6	1.6	1.5	1.7	1.6	1.6	1.5	0.0						
CROPLAND 4	26.6	26.6	25.4	28.2	25.8	11.5	39.5	0.0						
545	.7	.7	.6	.7	.7	.3	.5	0.0						
CROPLAND 5	148.1	148.1	141.4	157.8	144.6	148.1	158.4	0.0						
546	1.1	1.1	1.0	1.1	1.0	1.1	1.1	0.0						
CROPLAND 6	14836.7	8898.8	14153.8	15792.4	14462.9	2703.9	3074.0	1116.9						
546	4.8	2.9	4.6	5.1	4.7	.9	2.2	4.8						
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	19.8 (ACRES)										
546	0.0	0.0 (ACRES)	0.0 (TONS/ACRE)											
GRASSLAND AND PASTURE	2.8	2.8 (TONS)	JOTHER LAND USE AREA	98.8 (ACRES)										
546	19.8	19.8 (ACRES)	JSE AREA											
545	.14	.14 (TONS/ACRE)												
CROPLAND 7	11.7	11.7 (TONS)	MISSING DATA	138.4 (ACRES)										
546	227.3	227.3 (ACRES)												
545	.05	.05 (TONS/ACRE)												
SUMMARY TOTAL POTENTIAL GROSS EROSION	15470.1	9216.4	14758.7	16446.0	15080.7	2431.7	3459.3	1116.9						
PERCENT REDUCTION:	4.5	2.7	4.3	4.4	4.4	.8	2.1	4.5						
	0.0	40.0	4.6	-5.4	2.5	91.7	53.3	4.5						

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PAST MANAGEMENT PRACTICE SCENARIOS

BASIN: SILVER CREEK CONFLUENCE W/ HONEY CR COUNTY: L2 CHAMPAIGN, OHIO

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL LOSS: GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS: TOTAL FACTOR (TONS/ACRE)
1 CROPLAND	6598.5	3598.4	6288.5	7102.4	6394.5	933.7	701.8	701.8
2 CROPLAND	19340.7	12283.7	18454.2	20549.5	18776.6	2739.9	4240.3	3453.5
3 CROPLAND	1123.5	1123.5	1072.0	1193.7	1190.7	1123.5	701.8	0.0
4 CROPLAND	233.6	233.6	222.9	248.2	226.8	101.2	257.0	0.0
5 CROPLAND	86.9	86.9	82.9	92.3	84.3	86.9	79.1	0.0
6 CROPLAND	1.1	1.1	1.0	1.2	1.1	1.1	1.1	0.0
7 CROPLAND	27375.2	17236.6	26120.5	29086.1	26576.7	4945.2	5940.0	5940.0
8 VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	89.0	89.0	89.0	89.0
9 GRASSLAND AND PASTURE	9.9	9.9	9.9	9.9	257.0	257.0	257.0	257.0
10 WOODLAND	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.3
SUMMARY TOTAL POTENTIAL GROSS FROSTION	27719.7	17466.6	26442.9	29439.4	26903.9	5087.8	12729.9	6721.3
PERCENT REDUCTION:	0.0	37.0	4.5	-6.2	2.9	81.6	54.1	54.1

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SILVER CREEK		CONFLUENCE W/ MONEYP CR		COUNTY: 03 SENECA, J-110															
LAND USE	EXISTING POT. REDUCE SOIL LOSS TO T PLOWING ONLY	FALL PLOWING ONLY	WINTER COVER CROP	MAXIMUM TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. SLOPP LAND (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
CROPLAND 1	1601.1	1667.6	1520.0	1722.7	1601.1	236.5	709.1	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
SM6	3.6	3.3	3.4	3.9	3.6	.5	1.5	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
CROPLAND 2	18229.8	15098.8	17306.1	19613.5	18229.8	2692.1	8076.2	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4	5258.4
SM6	3.5	3.0	3.3	3.7	3.5	.5	1.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
CROPLAND 3	1018.4	1018.4	966.9	1095.8	1018.4	1018.4	1019.4	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3	642.3
SM6	1.4	1.6	1.5	1.7	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 4	38.2	38.2	36.2	41.1	38.2	16.9	16.9	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
SM6	.8	.8	.7	.8	.8	.3	.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 5	150.9	150.9	143.2	162.3	150.9	150.9	150.9	138.4	138.4	138.4	138.4	138.4	138.4	138.4	138.4	138.4	138.4	138.4	138.4
SM6	1.1	1.1	1.0	1.2	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 8	48.2	48.2	38.1	43.2	48.2	17.8	17.8	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
SM6	1.0	1.0	1.0	1.1	1.0	.5	.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 10	21077.8	18614.1	20010.5	22678.6	21077.8	4132.6	9989.5	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0	6573.0
SM6	3.2	2.8	3.0	3.5	3.2	.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	79.1 (ACRES)	79.1 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PASTURE AND PASTURE	19.8	19.8 (ACRES)	19.8 (ACRES)	19.8 (ACRES)	19.8 (ACRES)	395.4 (ACRES)	395.4 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM6	.02	.02 (TONS/ACRE)	.02 (TONS/ACRE)	.02 (TONS/ACRE)	.02 (TONS/ACRE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CROPLAND 11	62.0	62.0 (TONS)	62.0 (TONS)	62.0 (TONS)	62.0 (TONS)	158.1 (ACRES)	158.1 (ACRES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SM6	.05	.05 (TONS/ACRE)	.05 (TONS/ACRE)	.05 (TONS/ACRE)	.05 (TONS/ACRE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS EROSION	21563.9	19050.9	20475.2	23196.8	21563.9	4279.1	13253.3	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7	9045.7
PERCENT REDUCTION:	0.0	11.7	5.0	-7.0	0.0	40.2	52.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SILVER CREEK		CONFLUENCE W/ MONY CR		COUNTY: 62 ALL IN BASIN			
LAND USE	EXISTING POTENTIAL SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING (TONS/ACRE)	WINTER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL WENT GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE)
CROPLAND 1	8191.6 7.1	4976.5 6.3	7408.5 7.6	8125.1 7.6	1170.1 1.0	1106.5 3.1	751.2 0.3
CROPLAND 2	37569.7 4.0	28142.5 3.0	35760.3 3.4	46143.0 4.2	5432.0 0.6	9498.7 1.7	4052.5 5.3
CROPLAND 3	2141.9 1.6	2141.9 1.6	2338.8 1.5	2289.5 1.7	2109.1 1.6	1344.3 1.5	0.0 0.0
CROPLAND 4	271.7 0.9	271.7 0.9	259.1 0.4	249.2 0.9	264.9 0.4	306.4 0.4	0.0 0.0
CROPLAND 5	237.7 1.1	237.7 1.1	226.1 1.0	254.6 1.2	235.2 1.1	217.5 1.1	0.0 0.0
CROPLAND 6	40.2 1.0	40.2 1.0	34.1 1.0	43.2 1.1	40.2 0.5	39.5 0.5	0.0 0.0
CROPLAND 7	4052.6 3.9	35050.5 2.9	46130.9 3.7	51764.6 4.1	47654.4 3.8	12553.0 1.9	
VINEYARDS AND ORCH.	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	150.0 (ACRES)		
GRASSLAND AND PASTURE	1.3 29.7 0.64	1.3 (TONS) 29.7 (ACRES) 0.04 (TONS/ACRE)	OTHER LAND USE AREA (TONS/ACRE)	652.4 (ACRES)			
WOODLAND	111.2 1957.1 0.06	111.2 (TONS) 1957.1 (ACRES) 0.06 (TONS/ACRE)	MISSING DATA	227.3 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS EROSION							
	49324.5	36525.2	46966.3	52688.1	44513.6	23004.4	14767.1
	3.3	2.5	3.2	3.6	0.6	1.5	
PERCENT REDUCTION:	0.0	25.9	4.4	-6.4	1.6	61.0	53.4

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SILVER CREEK		COUNTY: 02 CRAWFORD, OHIO										
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	DOWNSTREAM FROM MARSH		FALL PLOWING ONLY		WINTER COVER CROP		MAXIMUM REDUCTION TILLAGE (TONS/ACRE)		REDUCED TILLAGE: CHISEL P. 24 AREA (TONS/ACRE)		EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE)
		EXISTING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE)	LOSS TO T PLOWING ONLY (TONS/ACRE)	EXISTING LOSS TO T PLOWING ONLY (TONS/ACRE)	LOSS TO T PLOWING ONLY (TONS/ACRE)	EXISTING LOSS TO T PLOWING ONLY (TONS/ACRE)	LOSS TO T PLOWING ONLY (TONS/ACRE)	EXISTING LOSS TO T PLOWING ONLY (TONS/ACRE)	LOSS TO T PLOWING ONLY (TONS/ACRE)			
1- CROPLAND	6590.5	3508.9	6200.5	7002.4	6398.3	933.7	2855.9	701.8	701.8	701.8	701.8	
546	9.4	5.0	9.0	10.0	9.1	1.3	4.1	4.1	4.1	4.1	9.4	
2- CROPLAND	19360.7	12283.7	18454.2	20549.5	18776.6	2739.9	8381.0	4249.3	4249.3	4249.3	3459.5	
546	4.6	2.9	4.4	4.8	4.4	.6	2.3	2.3	2.3	2.3	0.0	
3- CROPLAND	1123.5	1123.5	1072.0	1193.7	1090.7	1123.5	1123.5	701.8	701.8	701.8	0.0	
546	1.6	1.6	1.5	1.7	1.6	1.6	1.6	1.6	1.6	1.6	0.0	
4- CROPLAND	233.6	233.6	222.9	248.2	226.6	101.2	101.2	257.0	257.0	257.0	0.0	
546	.9	.9	.9	1.0	.9	.4	.4	.4	.4	.4	0.0	
5- CROPLAND	86.9	86.9	82.9	92.3	84.3	86.9	86.9	79.1	79.1	79.1	0.0	
546	1.1	1.1	1.0	1.2	1.1	1.1	1.1	1.1	1.1	1.1	0.0	
1- CROPLAND	27375.2	17236.6	26120.5	29686.1	26576.7	4985.2	12548.3	5980.0	5980.0	5980.0		
546	4.6	2.9	4.4	4.9	4.4	.8	2.1	2.1	2.1	2.1		
WETLANDS AND ORCH.	0.0	0.0 (TONS)	4.0 (TONS)	4.0 (TONS)	4.0 (TONS)	4.0 (TONS)	4.0 (TONS)	4.0 (TONS)	4.0 (TONS)	4.0 (TONS)		
546	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)		
GRASSLAND AND PASTURE	9.9	9.9 (TONS)	9.9 (TONS)	9.9 (TONS)	9.9 (TONS)	257.0 (ACRES)	257.0 (ACRES)	257.0 (ACRES)	257.0 (ACRES)	257.0 (ACRES)		
546	.09	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)	.09 (TONS/ACRE)		
WOODLAND	49.3	49.3 (TONS)	MISSING DATA	MISSING DATA	MISSING DATA	MISSING DATA	MISSING DATA	MISSING DATA	MISSING DATA	MISSING DATA		
546	.07	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)	.07 (TONS/ACRE)		
SUMMARY TOTAL POTENTIAL GROSS EROSION		27710.7	26442.9	29439.4	26903.9	5087.8	12723.1	6721.3	6721.3	6721.3		
PERCENT REDUCTION:		4.1	2.6	3.9	4.4	.8	1.9	1.9	1.9	1.9		
		37.0	4.6	-6.2	2.5	81.6	54.1	54.1	54.1	54.1		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIO

BASIN: SILVER CREEK										DOWNSTREAM FROM MAPSH										COUNTY: CATTARAUGUS, NY									
LAND USE		EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)		LOSS TO FLOWING AND FLOODING ONLY (TONS/ACRE)		SOIL SPRING (TONS/ACRE)		FALL PLOWING ONLY (TONS/ACRE)		WINTER COVER (TONS/ACRE)		MAXIMUM REDUCTION TILLAGE (TONS/ACRE)		REDUCED TILLAGE (TONS/ACRE)		SOIL MOIST. GROUP LAND AREA (ACRES)		EXISTING SOIL LOSS (TONS/ACRE)											
CROPLAND 1		211.9	98.8	201.2	228.5	211.9	31.3	93.3	19.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7										
CROPLAND 2		8628.4	8094.7	8191.6	8283.8	8283.8	1274.2	3822.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7										
CROPLAND 3		439.6	439.6	417.4	473.0	439.6	439.6	439.5	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9	276.9										
CROPLAND 4		0.3	0.3	7.9	9.0	0.3	3.7	3.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3										
CROPLAND 5		118.5	118.5	112.5	127.5	118.5	118.5	118.5	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7										
CROPLAND		9406.7	8749.9	8930.6	10121.3	9406.7	1067.3	4879.4	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3										
VINEYARDS AND ORCH.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
BRASSLAND AND PASTURE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
WOODLAND		23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7										
SUMMARY TOTAL POTENTIAL GROSS EROSION		9406.7	8749.9	8930.6	10121.3	9406.7	1067.3	4879.4	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3	2747.3										
PERCENT REDUCTION:		8.0	7.0	5.0	-7.6	0.0	79.9	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3										

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: SILVER CREEK		DOWNSTREAM FROM MARSH				COUNTY: 42 ALL IN BASIN											
LAND USE	EXISTING GROSS EROSION (TONS)	POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (TONS)	SOIL MGMT. 343UP LAND AREA (ACRES)	EXISTING GROSS EROSION (TONS)	POT-REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL PLOW AREA (TONS)	SOIL MGMT. 343UP LAND AREA (ACRES)	EXISTING GROSS EROSION (TONS)		
CROPLAND 1	6882.5	3607.7	6489.7	7230.5	6610.2	965.0	2943.3	721.5	9.4	5.0	9.0	10.0	1.3	4.1	721.5		
CROPLAND 2	27969.1	20368.4	26645.4	29833.3	27405.0	4014.2	12203.7	5573.0	4.3	3.1	4.1	4.2	1.3	1.3	5573.0		
CROPLAND 3	1563.1	1563.1	1489.4	1666.7	1530.3	1563.1	1563.1	978.5	1.6	1.6	1.7	1.6	1.5	1.5	978.5		
CROPLAND 4	241.9	241.9	230.8	257.2	235.1	104.5	104.5	266.3	.9	.9	1.0	.4	.4	.4	0.0		
CROPLAND 5	205.4	205.4	195.4	219.6	202.9	205.4	205.4	187.8	1.1	1.0	1.2	1.1	1.1	1.1	0.0		
CROPLAND 6	36782.0	25986.5	35051.1	39207.5	35393.5	6452.6	17026.9	9727.7	4.2	3.0	4.0	4.1	.8	2.3	9727.7		
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
GRASSLAND AND PASTURE	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9		
WOODLAND	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0		
SUMMARY TOTAL POTENTIAL GROSS EROSION																	
37149.7																	
26268.1																	
35405.0																	
39594.5																	
36344.6																	
6941.7																	
13002.4																	
PERCENT REDUCTIONS:																	
0.0																	
29.3																	
4.7																	
-6.6																	
2.2																	
81.2																	
53.6																	

C-JUNTY: v2 CRAWFORD, OHIO

3421M: SILVER CREEK

UPSTEAD FROM WASH

C-JUNTY: 02 CASSFORD, OHIO

LAND USE	EXISTING POT. REDUCED LOSS TO FLOODING AND EXISTING ONLY (TONS)	EXISTING POT. REDUCED LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION (TONS)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED TILLAGE? (TONS)	REDUCED TILLAGE? (TONS/ACRE)	3330 LAND AREA (ACRES)	SOIL LOSS > T FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)
20PLAND 1	632.8	3459.5	6134.0	6834.7	6245.2	911.3	2181.5	4.9	2181.5	4.9	591.3	691.9	9.3
20PLAND 2	17569.7	10755.7	16764.4	14667.4	17057.5	2449.0	7613.5	2.1	7613.5	2.1	3676.3	3172.8	5.1
20PLAND 3	997.0	947.0	941.1	1059.4	948.0	997.0	397.3	1.6	397.3	1.6	522.7	0.0	0.0
20PLAND 4	226.9	226.9	216.5	241.1	220.3	98.3	98.3	.4	98.3	.4	247.1	0.0	0.0
20PLAND 5	46.9	46.9	42.9	92.3	84.3	86.9	85.3	1.1	85.3	1.1	79.1	0.0	0.0
20PLAND	25313.3	15526.0	24153.1	26495.5	24575.1	4582.5	11583.3	2.2	11583.3	2.2	5317.7		
WETLANDS AND DRAINAGE	0.0	0.0 (TONS)	JATER AREA ONLY	0.0 (ACRES)	0.0 (ACRES)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)
GRASSLAND AND PASTURE	9.9	9.9 (TONS)	OTHER LAND USE AREA	247.1 (ACRES)	247.1 (ACRES)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)	247.1 (TONS/ACRE)
WOODLAND	42.5	42.5 (TONS)	MISSING DATA	39.5 (ACRES)	39.5 (ACRES)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)	39.5 (TONS/ACRE)
SUMMARY TOTAL	25527.3	15674.1	24359.3	27120.1	24575.1	4657.0	11704.9	2.0	11704.9	2.0	5910.7		
POTENTIAL GROSS EROSION	2.7	2.7	4.1	4.6	4.2	.8							
PERCENT REDUCTION:	8.8	38.6	4.6	-6.2	2.9	81.8	54.1						

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SILVER CREEK		UPSTREAM FROM MARSH										COUNTY: 03 SENECA, OHIO	
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO T. PLOUGHING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOUGHING ONLY (TONS/ACRE)	FALL PLOUGHING ONLY (TONS/ACRE)	WINTER COVER CROPS (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)			
1	155.7	99.4	167.8	167.5	155.7	23.0	23.0	69.0	9.3	9.3			
2	15.7	5.0	14.9	14.9	15.7	2.3	2.3	7.3	15.7	15.7			
3	4974.0	4508.7	4722.9	5352.6	4974.8	734.7	2204.0	1176.2	118.6	118.6			
4	4.2	3.0	4.0	4.6	4.2	.6	1.3	6.9	6.9	6.9			
5	126.2	126.2	119.8	135.8	126.2	126.2	126.2	126.2	79.1	79.1			
6	1.6	1.6	1.5	1.7	1.6	1.6	1.6	1.6	0.0	0.0			
7	32.3	32.3	30.7	34.8	32.3	32.3	32.3	32.3	29.7	29.7			
8	1.1	1.1	1.0	1.2	1.1	1.1	1.1	1.1	0.0	0.0			
9	5289.0	4716.6	5021.2	5690.7	5289.0	916.2	2431.5	1294.9					
10	4.1	3.6	3.9	4.4	4.1	.7	1.9						
11	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)							
12	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)								
13	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)								
14	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	29.7 (ACRES)							
15	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)								
16	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)								
17	6.0	6.0 (TONS)	MISSING DATA	MISSING DATA	0.0 (ACRES)								
18	130.4	130.4 (ACRES)											
19	0.0	0.0 (TONS/ACRE)											
20	5289.0	4722.6	5027.2	5696.7	5289.0	922.2	2437.5	1433.3					
21	3.7	3.3	3.5	4.8	3.7	.6	1.7						
22	0.0	10.5	5.1	-7.5	0.0	82.6	54.0						
23	PERCENT REDUCTION:												

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: SILVER CREEK				COUNTY: 62 ALL IN MARSH									
LAND USE	EXISTING GROSS PRODUCTION (TONS/ACRE)	POT. REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PL/DJ AREA (TONS/ACRE)	SOIL WGT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS S.F. FACTOR (ACRES)				
CROPLAND 1 SAC	6588.6 9.4	3508.9 5.0	4285.4 9.0	702.9 10.3	6400.9 9.1	934.3 1.3	2856.5 1.1	701.9 9.4	101.0 9.4				
CROPLAND 2 SAC	22544.5 4.6	15264.4 3.1	21487.4 6.4	24020.5 4.9	22032.1 4.5	3223.7 .7	9817.6 2.3	4933.1 5.2	3291.4 5.2				
CROPLAND 3 SAC	1123.2 1.6	1123.2 1.6	1071.1 1.3	1195.1 1.7	1094.1 1.6	1123.2 1.6	1123.2 1.5	781.4 0.0	0.0 0.0				
CROPLAND 4 SAC	226.9 .9	226.9 .9	216.5 .9	241.1 1.0	220.3 .9	98.3 .4	98.3 .4	247.1 0.0	0.0 0.0				
CROPLAND 5 SAC	119.2 1.1	119.2 1.1	113.6 1.0	127.1 1.2	116.6 1.1	119.2 1.1	119.2 1.1	108.7 0.0	0.0 0.0				
CROPLAND	30602.4 4.6	20242.6 3.1	29179.4 6.4	32586.2 4.9	29864.0 4.5	5498.7 .8	14016.7 2.1	6612.5 2.1					
VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS/ACRE) 0.00 (TONS/ACRE)	0.0 (ACRES)							
GRASSLAND AND PASTURE	9.9 .09	9.9 (TONS) .09 (TONS/ACRE)	9.9 (TONS) .09 (TONS/ACRE)	276.4 (ACRES)	276.4 (ACRES)								
WOODLAND	44.5 642.0	44.5 (TONS) 642.0 (ACRES)	MISSING DATA	39.5 (ACRES)	39.5 (ACRES)								
SUMMARY TOTAL POTENTIAL GROSS EROSION													
	30817.6 4.2	20401.7 2.9	29381.8 6.0	32812.1 4.5	30075.2 4.1	9578.1 .8	14148.4 1.9	7343.7 54.1					
PERCENT REDUCTION:													
	0.0	33.8	4.7	-6.5	2.4	81.9							

LARE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: AICHOLZ DITCH HONEY CREEK-COUNTY 40-49 COUNTY: 22 CRAWFORD, OHIO

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
BAROPLAND 2	16.0	16.0	15.2	17.0	15.5	2.3	6.3	9.0
545	1.6	1.6	1.5	1.7	1.6	.2	.7	8.0
BAROPLAND	16.0	16.0	15.2	17.0	15.5	2.3	6.3	9.3
	1.6	1.6	1.5	1.7	1.6	.2	.7	
LIVEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
GRASSLAND AND PASTURE	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
WOODLAND	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS EROSION	16.0	16.0	15.2	17.0	15.5	2.3	6.3	9.9
	1.6	1.6	1.5	1.7	1.6	.2	.7	
PERCENT REDUCTION:	0.0	0.0	5.0	-6.2	3.1	85.6	56.3	

Lake Erie Wastewater Management Study U.S. Army Corps of Engineers, Buffalo District
Land Management Alternatives: Best Management Practice Scenarios

Basin: Richolz Ditch Wmlev Creek County Rd. 49 County: 33 Seneca, Ohio

Land Use	Existing Gross Erosion (tons/acre)	Existing Potential Soil Loss (tons/acre)	Fall Ploing Only (tons/acre)	Winter Cover Crop (tons/acre)	Maximum Tillage Reduction (tons/acre)	Reduced Tillage (tons/acre)	Soil Mgmt. Group Land Area (acres)	Existing Soil Loss Factor (acres)
Crop Land 1	59.0	59.0	56.0	63.5	59.0	26.1	49.4	0.0
Crop Land 2	17411.8	16479.8	16530.2	18740.3	17411.8	2571.4	6375.3	237.2
Crop Land 3	2890.0	2890.0	2743.7	3109.5	2890.0	2890.0	1828.6	0.0
Crop Land 4	240.2	240.2	228.1	258.5	240.2	106.4	286.6	0.0
Crop Land 5	10.4	10.4	10.2	11.5	10.4	10.4	9.3	0.0
Crop Land 6	40.2	40.2	38.1	43.2	40.2	17.8	39.5	0.0
Crop Land 7	1.0	1.0	1.0	1.1	1.0	.5		0.0
Crop Land 8	20652.0	19720.0	19606.3	22220.6	20652.0	5605.1	9889.3	
Vineyards and Orch.	0.0	0.0	0.0	0.0	0.0	39.5		
Grassland and Pasture	79.1	79.1	79.1	79.1	79.1	484.3		
Woodland	38.9	38.9	38.9	38.9	38.9	316.3		
Summary Total Potential Gross Erosion	21376.6	20413.8	20296.3	22997.0	21376.6	5832.2	11162.3	9884.2
Percent Reduction:	0.0	4.5	5.1	-7.6	0.0	72.7	47.9	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: AICHOLZ DITCH MONEY CREEK, COUNTY RD. 49 COUNTY: 62 ALL IN BASIN

LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO T. PLOUING (TONS/ACRE)	FALL PLOUING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
CROPLAND 1	59.0	59.0	56.0	63.5	99.0	26.1	49.4	0.0
545	1.2	1.2	1.1	1.3	1.2	.3		0.0
CROPLAND 2	17427.8	16495.7	16751.2	17427.3	2573.6	7721.0	6385.2	237.2
546	2.7	2.6	2.6	2.3	.4	1.2		6.9
CROPLAND 3	2890.0	2890.0	2743.7	3109.5	2890.0	2890.0	1828.5	0.0
546	1.6	1.6	1.5	1.7	1.6	1.6		0.0
CROPLAND 4	240.2	240.2	228.1	258.5	240.2	106.4	286.6	0.0
546	.8	.8	.6	.3	.8	.4		0.0
CROPLAND 5	10.8	10.8	10.2	11.6	10.8	10.8	9.3	0.0
546	1.1	1.1	1.0	1.2	1.1	1.1		0.0
CROPLAND 6	40.2	40.2	30.1	43.2	40.2	17.8	39.5	0.0
546	1.0	1.0	1.0	1.1	1.0	.3		0.0
CROPLAND	20668.0	19135.9	19621.5	22237.5	20661.5	10772.1	5599.2	
	2.4	2.3	2.3	2.6	2.4	.7		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	4ATER AREA ONLY (TONS/ACRE)	39.5 (ACRES)				
	0.0	0.0 (ACRES)						
	0.00	0.00 (TONS/ACRE)						
GRASSLAND AND PASTURE	1.6	1.6 (TONS)	OTHER LAND USE AREA (TONS/ACRE)	444.3 (ACRES)				
	79.1	79.1 (ACRES)						
	.02	.02 (TONS/ACRE)						
WOODLAND	33.9	38.9 (TONS)	MISSING DATA	316.3 (ACRES)				
	899.5	899.5 (ACRES)						
	.04	.04 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	21392.4	20429.5	20311.3	23013.7	21391.5	11163.7	9894.1	
	2.2	2.1	2.1	2.3	2.2	.6		
PERCENT REDUCTION:	0.0	4.5	5.1	-7.5	.0	72.7	47.8	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: TEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BROCKKNIFE CREEK COUNTY LINE ROAD COUNTY: 02 CRAWFORD, OHIO

LAND USE	EXISTING POT. REDUCE SOIL SPRING GROSS LOSS TO PLOWING EROSION AND EXISTING ONLY (TONS) (TNS)	FALL PLOWING ONLY (TNS) (TNS)	WINTER COVER (TNS) (TNS)	MAXIMUM REDUCTION TILLAGE (TNS) (TNS)	REDUCED TILLAGE CHISEL PLOW AREA (TNS) (TNS)	SOIL MGMT. STEEP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
1. CROPLAND 1	4931.0 8.3	3845.0 4.9	4705.0 6.0	5239.2 6.7	4787.2 6.1	698.6 .9	798.9 6.3
2. CROPLAND 2	15226.5 3.5	12417.4 2.9	14526.4 3.4	16178.1 3.7	14782.4 3.4	2157.1 .5	2866.4 0.8
3. CROPLAND 3	1625.1 1.6	1625.1 1.6	1550.7 1.5	1726.7 1.7	1577.7 1.6	1625.1 1.6	988.4 0.8
4. CROPLAND 4	917.8 .9	917.8 .9	875.7 .9	975.2 1.0	891.0 .9	397.7 .4	998.5 0.8
5. CROPLAND 5	196.4 1.1	196.4 1.1	187.4 1.1	208.7 1.2	190.7 1.1	196.4 1.1	177.9 0.8
6. CROPLAND 6	22896.8 3.2	19001.7 2.6	21447.4 3.0	24327.9 3.3	22229.0 3.1	5074.9 .7	7264.9 1.5
7. VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	79.1 (ACRES)		
8. GRASSLAND AND PASTURE	3.8 79.1 .05	3.8 (TONS) 79.1 (ACRES)	3.8 (TONS) 79.1 (ACRES)	543.6 (ACRES)			
9. WOODLAND	43.8 701.8 .06	43.8 (TONS) 701.8 (ACRES)	43.8 (TONS) 701.8 (ACRES)	197.7 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS EROSION	23508.2 2.9	19517.4 2.4	22433.0 2.7	24974.5 3.0	22824.0 2.8	5248.4 .6	8243.5 1.4
PERCENT REDUCTION:	0.0	17.0	4.5	-6.2	2.9	77.7	52.1

COUNTRY: OS SENECA, OHIO

COUNTY LINE ROAD

RASIN: BROKENWIFE CREEK



LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

343IN: PROCKMIFE CREEK COUNTY LIND ROAD COUNTY: 00 MURTM, OHIO

LAND USE	EXISTING POT-REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
200PLAND 1	787.5	395.4	750.1	824.8	108.9	329.3	79.1
346	10.0	5.0	4.5	10.4	1.4	4.2	10.0
200PLAND 2	1939.6	908.3	900.3	1088.9	143.8	435.5	326.2
346	3.2	3.1	3.0	3.3	3.6	1.1	3.2
200PLAND 3	16.7	16.7	15.9	17.5	16.7	16.7	9.9
346	1.7	1.7	1.6	1.8	1.7	1.7	0.0
200PLAND 4	177.0	177.0	168.7	145.4	74.2	74.2	119.5
346	1.5	1.5	1.4	1.6	1.4	1.4	0.0
200PLAND 5	45.5	45.5	43.3	47.6	45.5	45.5	49.4
343	.9	.9	.9	1.0	.9	.9	0.0
200PLAND	2066.3	1632.9	1988.3	2164.2	389.1	901.9	583.2
	3.5	2.6	3.4	3.7	3.4	1.5	
346YARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	19.8 (ACRES)		
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)			
346SSLAND AND PASTURE	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	9.9 (ACRES)		
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)			
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)			
400DLAND	7.6	7.6 (TONS)	MISSING DATA	MISSING DATA	29.7 (ACRES)		
	98.0	98.0 (ACRES)					
	0.0	0.0 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	2144.2	1711.9	2061.9	2266.4	414.0	949.1	711.7
	3.8	2.4	2.9	3.2	.6	1.3	
PERCENT REDUCTION:	0.0	20.9	4.7	-4.7	80.9	55.1	

LAKE ERIE WASTE/WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

3451N: MADONNAWIFE CREEK		COUNTY LINE ROAD		COUNTY: 62 ALL IN BASIN															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCED LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
346 1	5822.5	4301.5	5553.8	6175.9	5644.4	822.9	2512.3	379.7	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8	869.8
346 2	22788.4	19788.5	21711.0	24284.4	22299.1	3264.1	9923.4	6591.5	3291.4	3291.4	3291.4	3291.4	3291.4	3291.4	3291.4	3291.4	3291.4	3291.4	3291.4
346 3	2422.2	2422.2	2307.4	2563.4	2574.0	2422.2	2422.2	1492.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
346 4	1236.7	1236.7	1179.1	1313.3	1202.3	334.7	539.7	1284.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
346 5	252.7	252.7	241.0	267.9	245.0	252.7	252.7	237.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
346 6	3.1	2.6	2.9	3.3	3.0	7296.6	15645.3	10585.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	177.9 (ACRES)														
GRASSLAND AND PASTURE	5.3	5.3 (TONS)	OTHER LAND USE AREA	741.3 (ACRES)															
WOODLAND	75.2	75.2 (TONS)	MISSING DATA	247.1 (ACRES)															
SUMMARY TOTAL POTENTIAL GROSS EROSION	33278.3	28663.7	31716.4	35425.0	32534.9	7529.9	16052.0	12177.2											
PERCENT REDUCTION:	0.0	13.9	4.7	-6.5	2.3	77.4	51.3												

1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

1. The first part of the document is a list of references. The references are listed in a standard format, with the author's name, the title of the work, and the publisher. The references are as follows:

Abstract

LAKE Erie WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIS: AGRICULTURAL DITCH		ACKERMAN DITCH		COUNTY: 02 CRAWFORD, OHIO		ALL IN BASIN			
LAND USE	EXISTING POTENTIAL GROSS EROSION AND EXISTING ONLY (TONS/ACRE)	LOSS TO T. PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED FILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	
1--CROPLAND 1	438.0	187.8	411.0	457.7	418.2	61.0	186.7	39.5	39.5
546	18.9	4.8	18.4	11.6	10.6	1.5	4.7	19.9	19.9
2--CROPLAND 2	2622.7	2163.7	2502.5	2746.7	2546.2	371.6	1136.5	968.7	227.3
546	2.7	2.2	2.6	2.3	2.6	.4	1.2	5.0	5.0
3--CROPLAND 3	71.4	71.4	68.1	75.0	69.3	71.4	71.4	59.5	0.0
546	1.8	1.8	1.7	1.9	1.8	1.8	1.9	9.0	9.0
4--CROPLAND 4	1300.1	1300.1	1240.6	1341.4	1262.4	563.4	563.4	1334.4	0.0
546	1.0	1.0	.9	1.0	.9	.4	.4	0.0	0.0
1--CROPLAND	4425.0	3723.0	4222.2	4731.7	4295.9	1067.4	1958.0	2382.1	
	1.9	1.6	1.8	2.0	1.8	.4	.3		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	19.4 (ACRES)				
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)						
GRASSLAND AND PASTURE	1.0	1.0 (TONS)	OTHER LAND	118.6 (ACRES)					
	29.7	29.7 (ACRES)	USE AREA						
	.03	.03 (TONS/ACRE)							
WOODLAND	6.7	6.7 (TONS)	MISSING DATA	0.0 (ACRES)					
	227.3	227.3 (ACRES)							
	.03	.03 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	4432.7	3730.7	4229.9	4709.4	4303.6	1075.1	1963.7	2639.1	
	1.7	1.4	1.6	1.8	1.6	.4	.7		
PERCENT REDUCTION:	0.0	15.4	4.6	-6.2	2.9	75.7	55.7		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: CUYAHOGA, OHIO									
ALL IN BASIN									
LAND USE	EXISTING POT-REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	SOIL WGT.	EXISTING	
	GROSS	LOSS TO T. PLOWING	PLOWING	COVER	REDUCTION	TILLAGE:	GROUP LAND	SOIL LOSS	
	EROSION	AND EXISTING ONLY	ONLY	CHOP	TILLAGE	CHISEL PLOW AREA	AREA	> T FACTOR	
	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)	(ACRES)	
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	
1	6215.4	1450.2	5900.7	6687.4	917.9	2753.7	516.0	415.1	
2	12.1	2.4	11.5	13.0	1.8	3.4		14.5	
3	22999.6	15043.4	21435.1	27746.4	3396.6	10189.7	3001.4	4942.1	
4	4.6	3.0	4.4	4.9	.7	2.0		4.5	
5	487.8	487.8	463.1	524.9	487.8	487.8	306.4	0.0	
6	1.6	1.6	1.5	1.7	1.6	1.5		0.0	
7	50.1	50.1	47.5	53.9	50.1	22.2	59.3	0.0	
8	.8	.8	.9	.9	.8	.4		0.0	
9	179.0	179.0	169.9	192.6	179.0	173.0	177.3	0.0	
10	1.0	1.0	1.0	1.1	1.0	1.0		0.0	
11	29931.9	17210.5	28416.3	32205.1	24931.9	13532.4	5059.0		
12	4.9	2.4	4.7	5.3	4.9	2.2			
VINEYARDS	7.1	7.1	7.1	59.3	59.3				
AND ORCH.	9.9	9.9	9.9						
	.72	.72	.72						
GRASSLAND	10.0	10.0	10.0	177.9	177.9				
AND PASTURE	148.3	148.3	148.3						
	.07	.07	.07						
WOODLAND	54.0	54.0	54.0	0.0	0.0				
	830.3	830.3	830.3						
	.07	.07	.07						
SUMMARY TOTAL POTENTIAL GROSS EROSION	30003.0	17211.4	28417.4	32206.2	30003.0	13703.5	7007.3		
	4.3	2.5	4.3	4.4	.7	1.3			
PERCENT REDUCTION:	0.0	42.4	5.1	-7.5	0.0	93.1	54.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: OS SENECA, MI									
ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS > 1/2 FURROW (TONS/ACRE)
CROPLAND 1	21727.5	7765.7	20627.4	23377.7	21727.5	3208.7	9626.1	2362.3	1700.1
343	9.2	3.3	8.7	9.9	9.2	1.4	4.1		11.2
CROPLAND 2	50689.9	33821.7	48123.3	54539.8	50689.9	7485.8	22457.5	11050.5	11040.6
346	4.6	5.1	4.4	4.9	4.6	.7	2.0		9.6
CROPLAND 3	1207.0	1207.0	1145.9	1207.0	1207.0	1207.0	1207.0	761.1	0.0
345	1.6	1.6	1.5	1.7	1.6	1.6	1.5		0.0
CROPLAND 4	83.5	83.5	79.2	83.5	83.5	37.0	37.0	98.9	0.0
346	.8	.8	.8	.9	.8	.4	.4		0.0
CROPLAND 5	379.6	379.6	360.3	408.4	379.6	379.6	379.6	375.6	0.0
346	1.0	1.0	1.0	1.1	1.0	1.0	1.0		0.0
CROPLAND 6	74087.5	43257.5	70336.1	79719.4	74087.5	12318.1	33707.5	14648.3	
343	5.1	3.0	4.8	5.4	5.1	.8	2.5		
VINEYARDS AND ORCH.	7.1	7.1	7.1	7.1	7.1	148.3			
343	.72	.72	.72	.72	.72				
PASTURE AND PASTURE	29.4	29.4	29.4	29.4	29.4	622.7			
343	.08	.08	.08	.08	.08				
WOODLAND	273.4	273.4	273.4	273.4	273.4	3864.7			
343	.11	.11	.11	.11	.11				
SUMMARY TOTAL POTENTIAL GROSS EROSION	90860.0	53287.9	86278.5	97732.0	90860.0	15422.3	41544.5	21330.0	
PERCENT REDUCTION:	0.0	41.4	5.0	-7.6	0.0	83.0	54.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: G2 CRAWFORD, OHIO

MILAN, OH

343RD WAGON RIVER

LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. REDUCED LOSS TO Y. PLANTING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: INITIAL FLOW AREA (TONS/ACRE)	SOIL LOSS: TROPIC LAND (TONS/ACRE)
200PLAND 1	9213.0	9853.1	9790.8	9790.8	1315.2	3992.3	9790.3
546	9.2	9.9	9.9	9.9	1.3	9.9	9.2
200PLAND 2	5676.1	4166.4	5016.3	6030.7	404.1	2659.7	1591.2
546	3.7	2.7	3.5	3.6	.5	1.5	9.3
200PLAND 3	250.0	250.0	232.5	265.6	290.7	250.0	150.1
546	1.6	1.6	1.4	1.7	1.5	1.5	9.0
200PLAND 4	436.5	436.5	416.5	465.7	149.1	187.1	323.7
546	.8	.8	.8	.8	.4	.4	9.0
200PLAND 5	136.3	136.3	130.1	144.9	136.3	136.3	90.9
546	1.4	1.4	1.3	1.5	1.4	1.4	9.0
200PLAND	15711.9	9871.9	14991.9	16693.9	2684.7	7027.4	3321.3
	4.7	3.0	4.5	5.0	.8	2.1	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	39.5 (ACRES)			
	0.0	0.0 (ACRES)					
	0.0	0.0 (TONS/ACRE)					
GRASSLAND AND PASTURE	0.0	0.0 (TONS)	OTHER LAND USE AREA	118.6 (ACRES)			
	138.4	138.4 (ACRES)					
	.06	.06 (TONS/ACRE)					
WOODLAND	38.6	38.6 (TONS)	MISSING DATA	207.6 (ACRES)			
	316.3	316.3 (ACRES)					
	.10	.10 (TONS/ACRE)					
343RD TOTAL POTENTIAL GROSS EROSION	16617.4	10456.3	15857.8	16134.4	2873.9	7495.4	3903.3
	4.2	2.6	4.0	4.4	.7	1.9	
PERCENT REDUCTION:	0.0	37.1	4.6	-6.2	2.9	82.7	55.1

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MURON RIVER		COUNTY: 03 SENECA, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE SOIL SPRING LOSS TO T PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MOIST. GROUP LAYO (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)			
1--CROPLAND 1	7582.9	2868.9	7123.0	8672.6	1198.3	3328.1	311.3	911.9			
545	8.2	3.1	7.9	8.4	1.2	3.5		4.2			
2--CROPLAND 2	41707.2	28435.6	39155.4	49174.1	1198.3	14977.7	4459.2	0943.3			
546	4.4	3.0	4.0	4.4	1.7	2.7		4.4			
3--CROPLAND 3	1642.7	1642.7	1559.7	1767.4	1498.7	1542.7	1347.5	0.0			
545	1.6	1.5	1.5	1.7	1.6	1.5		0.0			
4--CROPLAND 4	303.1	303.1	277.0	326.0	134.5	134.5	296.6	1.0			
546	1.1	1.1	1.0	1.1	0.5	0.5		0.0			
5--CROPLAND 5	114.2	114.2	106.4	122.9	114.2	114.2	133.1	0.0			
545	1.1	1.1	1.0	1.2	1.1	1.1		0.0			
6--CROPLAND 6	371.6	371.6	352.0	374.6	144.6	144.6	355.7	0.0			
546	1.0	1.0	1.0	1.1	0.5	0.5		0.0			
7--CROPLAND 7	51641.7	33736.2	49226.9	55563.9	1541.7	21457.3	13157.4	0943.3			
545	4.2	2.6	4.0	4.4	1.7	2.7		4.4			
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	-1.0 (ACRES)						
545	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)							
GRASSLAND AND PASTURE	13.0	13.0 (TONS)	OTHER LEAD JSE AREA	672.1 (ACRES)							
545	266.9	266.9 (ACRES)									
WOODLAND	97.2	97.2 (TONS)	MISSING DATA	217.5 (ACRES)							
545	1462.9	1462.9 (ACRES)									
8--TOTAL POTENTIAL GROSS EROSION	52561.9	34376.2	49906.1	56545.4	9580.9	24343.1	19114.7	0943.3			
545	3.7	2.4	3.5	4.0	0.7	1.7		4.0			
PERCENT REDUCTION:	0.0	34.6	5.1	-7.6	0.0	53.7		0.0			

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MURON RIVER		MILAN, OH		COUNTY: ON HURON, OHIO			
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO 7 PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER (TONS/ACRE)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)
210PLAND 1	271640.8	115227.4	258775.6	25949.4	37581.5	113818.3	25044.1
546	10.8	4.6	10.3	10.4	1.5	4.3	10.8
210PLAND 2	159863.6	140443.1	152281.1	152012.9	22115.5	66979.9	47355.2
546	3.4	3.0	3.2	3.5	.5	1.4	3.5
210PLAND 3	85449.5	76723.6	81396.6	81734.3	85449.5	85449.5	27404.0
546	3.1	2.8	3.0	3.3	3.1	3.1	3.2
210PLAND 4	28420.2	28420.2	27072.2	29768.2	27184.6	11907.3	19538.6
546	1.5	1.5	1.4	1.5	1.4	.6	0.0
210PLAND 5	22504.0	22504.0	21436.6	23573.3	21525.5	22504.0	19417.5
546	1.2	1.2	1.1	1.2	1.1	1.2	0.0
210PLAND 6	104.1	104.1	99.2	109.0	99.6	43.6	89.0
546	1.2	1.2	1.1	1.2	1.1	.5	0.0
210PLAND 7	568002.2	383422.4	541061.3	59492.7	543506.3	179501.4	139948.4
546	4.1	2.8	3.9	4.3	3.9	2.2	
VINEYARDS AND ORCH.	298.5 (TONS)	298.5 (TONS)	298.5 (TONS)	298.5 (TONS)	298.5 (TONS)	298.5 (TONS)	298.5 (TONS)
546	365.7 (ACRES)	365.7 (ACRES)	365.7 (ACRES)	365.7 (ACRES)	365.7 (ACRES)	365.7 (ACRES)	365.7 (ACRES)
GRASSLAND AND PASTURE	442.9 (TONS)	442.9 (TONS)	442.9 (TONS)	442.9 (TONS)	442.9 (TONS)	442.9 (TONS)	442.9 (TONS)
546	7094.4 (ACRES)	7094.4 (ACRES)	7094.4 (ACRES)	7094.4 (ACRES)	7094.4 (ACRES)	7094.4 (ACRES)	7094.4 (ACRES)
WOODLAND	1976.7 (TONS)	1976.7 (TONS)	1976.7 (TONS)	1976.7 (TONS)	1976.7 (TONS)	1976.7 (TONS)	1976.7 (TONS)
546	22377.8 (ACRES)	22377.8 (ACRES)	22377.8 (ACRES)	22377.8 (ACRES)	22377.8 (ACRES)	22377.8 (ACRES)	22377.8 (ACRES)
SUMMARY TOTAL POTENTIAL GROSS EROSION	583394.6	394715.7	555855.4	610933.3	558150.2	186368.4	172432.4
PERCENT REDUCTION:	0.0	32.3	4.7	-4.7	4.3	68.1	45.3

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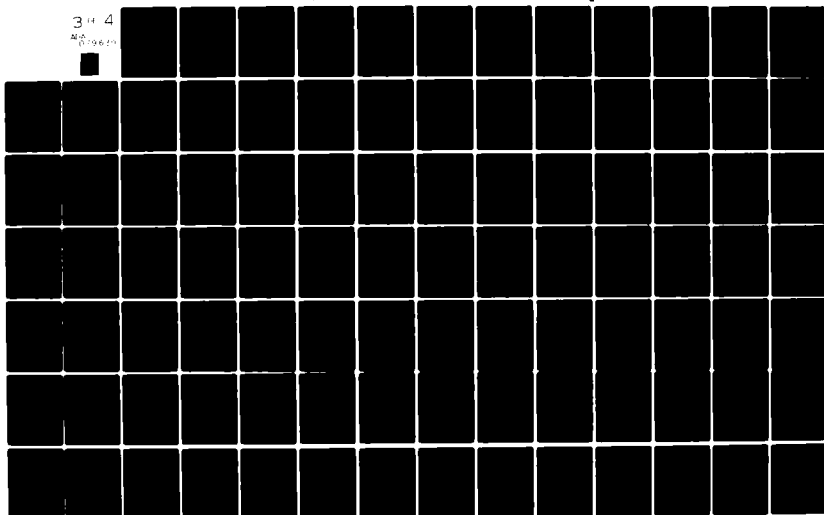
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LAKL ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MURON RIVER			MILANOM			COUNTY: 37 ERIE, ONTIO					
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER (TONS)	MAXIMUM TILLAGE REDUCTION (TONS)	REDUCED TILLAGE CRIPSEL AREA (TONS/ACRE)	SOIL MGMT. SAVOP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)			
230PLAND 1	4562.7	4621.6	4314.1	4611.2	4367.4	1881.3	2006.5	227.3			
346	2.3	2.2	2.2	2.4	2.2	.9		2.6			
230PLAND 2	3897.4	3685.1	4119.7	3730.6	401.4	1607.5	2936.8	9.0			
346	1.4	1.3	1.4	1.2	.2	.5		6.0			
230PLAND 3	1476.5	1396.1	1556.7	1413.3	1476.5	1476.5	751.2	0.0			
346	2.0	1.3	2.1	1.9	2.0	2.0		0.0			
230PLAND 4	2658.8	2514.7	2293.7	2545.0	1096.6	1096.6	3192.5	9.0			
346	.8	.8	.9	.8	.3	.3		0.0			
230PLAND 5	1434.9	1425.8	1513.1	1373.5	1434.9	1434.9	1512.3	19.4			
346	.9	.9	1.0	.9	.9	.9		1.5			
230PLAND 6	354.3	335.5	373.6	339.1	146.1	146.1	454.7	0.0			
346	.8	.7	.6	.7	.1	.1		0.0			
230PLAND 7	14713.8	474.4	13912.3	14084.1	1649.3	6049.7	158.1	158.1			
346	93.1	3.0	98.1	89.1	12.0	39.4		93.1			
230PLAND 8	14708.8	27513.3	30683.6	27853.0	7129.7	13712.2	10912.2				
346	2.7	1.3	2.3	2.6	.7	1.5					
VINEYARDS AND ORCH.	1.4	1.4	1.4	257.0	257.0						
346	.87	.87	.87								
230PLAND 9	82.7	82.7	82.7	909.3	909.3						
346	.10	.10	.10								
230PLAND 10	1373.6	1373.6	1373.6	147.8	147.8						
346	.61	.61	.61								
SUMMARY TOTAL POTENTIAL GROSS EROSION	30966.4	16385.6	29363.0	32572.4	29734.3	8702.7	15373.5	16174.0			
PERCENT REDUCTION:	2.2	1.2	2.1	2.3	2.1	.5	1.1				
	0.6	47.1	5.2	-5.2	4.1	71.9	50.4				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

MILAN, OH

34515: HURON RIVER

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO T PLOUING ONLY (TONS/ACRE)	FALL PLOUING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION VILLAGE (TONS/ACRE)	REDUCED VILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	321836.2	149051.2	306748.7	308751.1	46852.1	138411.8	32756.0	30828.8
	9.8	4.4	9.4	9.4	1.4	4.2		10.3
CROPLAND 2	233679.1	192931.9	223198.6	226353.6	33917.7	101762.6	65629.4	60210.6
	3.5	2.9	3.3	3.4	.5	1.3		3.7
CROPLAND 3	90193.9	81362.0	85917.1	86372.8	90193.9	90193.9	30154.2	22778.2
	3.0	2.7	2.8	2.9	3.0	3.0		3.2
CROPLAND 4	32649.8	32649.8	31110.7	31286.8	13783.1	13783.1	24925.5	0.0
	1.3	1.3	1.2	1.3	.6	.6		0.0
CROPLAND 5	24395.8	24386.7	23235.7	23352.0	24395.8	24395.8	21498.1	19.8
	1.1	1.1	1.1	1.1	1.1	1.1		1.5
CROPLAND 8	830.0	830.0	787.0	810.3	354.4	354.4	989.3	0.0
	.9	.9	.9	.9	.4	.4		0.0
CROPLAND 10	14713.8	474.4	13912.3	14084.1	1889.3	6088.7	158.1	158.1
	93.1	3.0	88.0	89.1	12.0	38.4		93.1
CROPLAND	717495.8	477685.2	684910.1	691010.1	210586.3	374970.3	177011.0	
	4.1	2.7	3.9	3.9	1.2	2.1		
VINEYARDS AND ORCH.	299.9	299.9 (TONS)	JATER AREA ONLY	5115.1 (ACRES)				
	385.5	385.5 (ACRES)						
	.78	.78 (TONS/ACRE)						
GRASSLAND AND PASTURE	713.4	713.4 (TONS)	OTHER LAND USE AREA	15886.4 (ACRES)				
	9288.7	9288.7 (ACRES)						
	.08	.08 (TONS/ACRE)						
WOODLAND	3307.6	3307.6 (TONS)	MISSING DATA	4556.1 (ACRES)				
	29118.8	29118.8 (ACRES)						
	.13	.13 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	737682.4	492444.4	704222.7	711322.0	220071.0	387332.3	224000.1	
	3.3	2.2	3.2	3.5	1.0	1.4		
PERCENT REDUCTION:	0.0	33.2	4.0	-5.4	3.7	71.2	47.4	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: MORVALL CREEK		MORVALL, NY		COUNTY: CHAUTAUK, NY		ALL IN BASIN			
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: MISCL PLD AREA (TONS/ACRE)	SOIL MGMT. RESID LAND AREA (ACRES)	CRISTING SOIL LOSS BY FACTOR (ACRES)	
CROPLAND 1	2771.1	1047.5	2639.7	2982.5	2658.6	303.4	1141.0	266.7	266.7
346	10.4	0.0	9.9	10.0	9.9	1.4	1.5	10.4	10.4
CROPLAND 2	1070.1	1047.5	1026.0	1129.2	1331.2	149.1	451.7	355.8	355.8
346	3.0	3.0	2.9	3.2	2.9	.4	1.3	3.0	3.0
CROPLAND 3	3993.5	3993.5	3980.1	4142.7	3819.2	3993.5	3993.5	1334.4	0.0
346	3.0	3.0	2.9	3.1	2.9	3.0	3.3	0.0	0.0
CROPLAND 5	323.5	323.5	308.2	338.9	309.5	323.5	323.5	266.9	0.0
346	1.2	1.2	1.2	1.3	1.2	1.2	1.2	0.0	0.0
CROPLAND	8166.2	6452.0	7778.9	8553.5	7811.1	6549.5	5929.7	2224.0	
346	3.7	2.9	3.5	3.0	3.5	2.2	2.7		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	266.9 (ACRES)					
346	0.0	0.0 (ACRES)	6.00 (TONS/ACRE)						
GRASSLAND AND PASTURE	13.2	13.2 (TONS)	OTHER LAND USE AREA	355.0 (ACRES)					
346	355.0	355.0 (ACRES)	3.0 (TONS/ACRE)						
WOODLAND	0.0	0.0 (TONS)	MISSING DATA	177.9 (ACRES)					
346	0.0	0.0 (ACRES)	0.00 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	8743.9	6911.0	8329.4	9157.4	8363.9	5190.0	6392.7	2797.7	
346	3.2	2.5	3.0	3.3	3.0	1.9	2.3		
PERCENT REDUCTIONS:	0.0	21.0	4.7	-4.7	4.3	40.5	27.5		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: VERMILION RIVER		VERMILION, OH		COUNTY: 34 HUPON, OHIO				
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CMISEL 3-3W AREA (TONS/ACRE)	SOIL WGMT. 3400+ LAND AREA (ACRES)	EXISTING SOIL LOSS T FACTOR (ACRES)
1 SUG	90795.8 18.5	38073.9 4.4	86409.3 10.0	95102.3 11.0	12560.7 1.5	38040.7 4.4	9620.9 16.5	
2 SUG	42324.0 3.6	35410.4 3.0	40316.5 3.5	44331.4 3.8	5855.1 .5	17732.5 1.5	11533.5 3.7	
3 SUG	95563.5 3.0	89243.3 2.8	91030.7 2.9	100096.1 3.1	95563.5 3.0	95563.5 3.0	51876.5 3.0	28852.0
4 SUG	9792.5 2.2	9792.5 2.2	9328.0 2.1	10257.0 2.3	9366.7 2.1	4132.4 .9	4447.3 0.0	0.0
5 SUG	6421.6 1.1	6421.6 1.1	6117.0 1.1	6726.2 1.2	6142.4 1.1	6421.6 1.1	3504.3 1.1	0.0
6 SUG	24487.4 3.9	178941.7 2.9	233281.5 3.7	256513.0 4.1	234249.7 3.0	124503.7 2.0	161861.4 2.6	62211.2
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	1245.4 (ACRES)			
PASSLAND AND PASTURE	127.1 3024.6	127.1 (TONS) 3024.6 (ACRES)	127.1 (TONS) 3024.6 (ACRES)	4625.6 (ACRES)				
WOODLAND	967.8 15834.5	967.8 (TONS) 15834.5 (ACRES)	MISSING DATA	1304.7 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION								
	249951.2	182934.0	238148.3	261753.7	239132.1	127619.4	165578.9	82375.0
	3.0	2.2	2.9	3.2	2.9	1.5	2.3	
PERCENT REDUCTION:	0.0	26.8	4.7	-4.7	4.3	44.9	33.8	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: VERMILION RIVER		VERMILION, OH		COUNTY: CUYAHOGA, OHIO					
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T PLOUGHING AND EXISTING ONLY (TONS/ACRE)	FALL PLOUGHING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MOIST. 3000' LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	SOIL LOSS FACTOR (TONS/ACRE)
210PLAND 1	5635.4	2369.9	5328.4	5394.2	723.6	2320.3	741.3	731.4	7.7
546	7.6	3.2	7.2	7.3	1.8	3.1			
210PLAND 2	508.7	546.9	556.7	620.9	75.6	242.9	326.2	42.4	3.0
546	1.4	1.4	1.7	1.7	.2	.7			
210PLAND 3	3901.4	3901.4	3682.9	4114.0	3734.4	3981.4	1640.3	0.0	0.0
546	2.4	2.4	2.2	2.5	2.3	2.4			
210PLAND 4	433.2	453.2	428.5	477.2	433.8	186.9	316.3	0.0	0.0
546	1.4	1.4	1.4	1.5	1.4	.5			
210PLAND 5	88.5	88.5	83.7	93.3	84.7	88.5	79.1	0.0	0.0
546	1.1	1.1	1.1	1.2	1.2	1.1			
210PLAND 10	3485.6	160.8	3220.1	3591.2	437.3	1480.7	49.0	49.4	68.9
546	68.9	3.4	65.2	72.7	86.0	28.4			
210PLAND	14072.8	7987.9	13386.3	14839.5	5413.3	8108.6	3153.1		
	4.5	2.4	4.2	4.7	4.3	2.5			
VINEYARDS AND ORCH.	54.7	54.7 (TONS)	JATER AREA ONLY		118.6 (ACRES)				
	69.2	69.2 (ACRES)							
	.79	.79 (TONS/ACRE)							
GRASSLAND AND PASTURE	147.3	147.3 (TONS)	OTHER LAND USE AREA		1018.1 (ACRES)				
	1719.8	1719.8 (ACRES)							
	.89	.89 (TONS/ACRE)							
WOODLAND	667.9	667.9 (TONS)	MISSING DATA		217.5 (ACRES)				
	2382.1	2382.1 (ACRES)							
	.24	.24 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	15386.4	4769.0	14597.2	16175.9	6469.8	9286.3	7341.7		
	2.8	1.2	1.9	2.1	.9	1.2			
PERCENT REDUCTION:	8.0	43.4	5.1	-5.1	4.0	39.5			

Lake Erie Wastewater Management Study
Land Management Alternatives: Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

BASIN: VERMILION RIVER		VERMILION, OH		COUNTY: IN RICHLAND, OHIO						
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS)	LOSS TO T PAVING AND EXISTING ONLY (TONS)	SOIL SPRING PAVING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION VILLAGE (TONS)	REDUCED VILLAGE: CHISFL PLOW AREA (TONS)	SOIL MOIST. SETUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	(TONS/ACRE)
230PLAND 1	6403.3	3025.2	6366.8	7150.5	6443.3	1257.2	800.6	800.6	800.6	800.6
346	8.0	4.8	8.0	8.9	8.0	1.6	6.4	6.4	6.4	6.4
230PLAND 2	22513.3	15957.7	22238.7	24984.2	22513.3	4592.8	5426.4	5426.4	5426.4	5426.4
343	4.1	2.9	4.1	4.6	4.1	.8	2.3	2.3	2.3	2.3
230PLAND 3	3368.6	3368.6	3327.6	3738.4	3368.6	3368.6	1779.2	1779.2	1779.2	1779.2
346	1.9	1.9	1.9	2.1	1.9	1.9	1.9	1.9	1.9	1.9
230PLAND 4	562.3	562.3	555.4	624.0	562.3	308.4	809.6	809.6	809.6	809.6
343	6.6	6.6	6.6	6.7	6.6	.3	.3	.3	.3	.3
230PLAND 5	266.2	266.2	262.9	295.4	266.2	266.2	355.0	355.0	355.0	355.0
346	7.7	7.7	7.7	8.0	7.7	7.7	7.7	7.7	7.7	7.7
230PLAND 10	1921.3	266.9	1897.9	2132.2	1921.3	374.9	89.0	89.0	89.0	89.0
346	21.6	3.0	21.3	24.0	21.6	4.2	11.3	11.3	11.3	11.3
230PLAND	35875.0	24246.9	34647.4	38928.7	35075.0	9968.3	20809.6	20809.6	20809.6	20809.6
346	3.8	2.6	3.7	4.2	3.6	1.1	2.2	2.2	2.2	2.2
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)				
346	0.0	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)					
GRASSLAND AND PASTURE	30.4	30.4 (TONS)	30.4 (TONS)	30.4 (TONS)	30.4 (TONS)	845.6 (ACRES)				
346	355.8	355.8 (ACRES)	355.8 (ACRES)	355.8 (ACRES)	355.8 (ACRES)					
346	3.09	3.09 (TONS/ACRE)	3.09 (TONS/ACRE)	3.09 (TONS/ACRE)	3.09 (TONS/ACRE)					
WOODLAND	152.5	152.5 (TONS)	152.5 (TONS)	152.5 (TONS)	152.5 (TONS)	89.0 (ACRES)				
343	1423.3	1423.3 (ACRES)	1423.3 (ACRES)	1423.3 (ACRES)	1423.3 (ACRES)					
346	1.1	1.1 (TONS/ACRE)	1.1 (TONS/ACRE)	1.1 (TONS/ACRE)	1.1 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	35540.1	24625.3	35109.1	39420.6	35540.1	10232.4	21240.2	21240.2	21240.2	21240.2
346	3.2	2.2	3.1	3.5	3.2	3.9	1.9	1.9	1.9	1.9
PERCENT REDUCTION:	8.0	30.7	1.2	-10.9	0.0	71.2	40.2	40.2	40.2	40.2

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: VERMILION RIVER VERMILION, OH COUNTY: 16 ASHLAND, OHIO

LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO T. PLUING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 312/3 LAUD TILLAGE (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)
312PLAND 1	40935.5	19570.7	4012.4	47317.5	40933.5	11266.1	4903.7
546	8.5	4.1	8.4	9.9	8.5	2.3	8.5
312PLAND 2	39704.1	35437.5	34975.5	45896.4	39704.1	10927.7	12632.0
546	3.1	2.8	3.1	3.5	3.1	.9	7.0
312PLAND 3	3438.0	3438.0	3374.9	3974.2	3438.0	3438.0	1957.1
546	1.8	1.8	1.7	2.0	1.8	1.8	0.0
312PLAND 4	214.1	214.1	210.2	247.5	214.1	147.3	533.7
546	.4	.4	.4	.5	.4	.3	0.0
312PLAND 5	735.6	735.6	722.1	850.3	735.6	735.6	1423.3
546	.5	.5	.5	.6	.5	.5	0.0
312PLAND 10	16571.1	2046.0	16267.0	19155.6	16571.1	4560.8	533.7
546	31.0	3.8	30.5	35.3	31.0	8.5	31.0
312PLAND	101596.4	61441.9	97732.1	117441.6	101596.4	31075.5	21893.3
	4.6	2.6	4.6	5.4	4.6	1.4	3.3
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	355.4 (ACRES)		
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)				
BRASSLAND AND PASTURE	405.2	405.2 (TONS)	OTHER LAND USE AREA	2046.0 (ACRES)			
	1423.3	1423.3 (ACRES)					
	.28	.28 (TONS/ACRE)					
WOODLAND	1488.5	1488.5 (TONS)	MISSING DATA	2401.9 (ACRES)			
	5337.5	5337.5 (ACRES)					
	.28	.28 (TONS/ACRE)					
312PLAND TOTAL POTENTIAL GROSS EROSION	112159.3	60637.8	110138.7	129333.2	112159.3	35725.1	79222.3
	3.6	2.2	3.5	4.2	3.6	1.2	2.5
PERCENT REDUCTION:	0.0	38.8	1.4	-15.3	3.6	68.1	29.4

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : WEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 62 ALL IN BASIN

LAND USE	EXISTING POTENTIAL SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WASH GROUP LAND > 1 FACTOR (TONS/ACRE)
CROPLAND 1	143887.9	63059.7	130369.7	155512.7	134619.1	25637.6
SWG	9.6	4.3	9.2	10.4	9.3	1.7
CROPLAND 2	195130.0	87392.5	102087.4	115932.9	103254.6	21251.2
SWG	3.5	2.9	3.4	3.9	3.4	.7
CROPLAND 3	106271.4	99951.4	101422.1	111922.6	101949.6	106271.4
SWG	2.9	2.7	2.7	3.0	2.7	2.9
CROPLAND 4	11022.1	11022.1	10522.1	11506.3	10576.9	4745.6
SWG	1.0	1.0	1.7	1.9	1.7	.8
CROPLAND 5	7511.9	7511.9	7365.7	7965.2	7224.9	7511.9
SWG	1.0	1.0	1.0	1.1	1.0	1.0
CROPLAND 10	21898.0	2440.9	21305.0	24478.9	21732.2	5373.0
SWG	32.6	3.7	31.0	37.0	32.4	8.0
CROPLAND	395641.3	272218.5	380967.0	427718.5	384391.3	170360.7
VINEYARDS AND ORCH.	54.7	54.7	54.7	54.7	54.7	1719.9
GRASSLAND AND PASTURE	710.0	710.0	710.0	710.0	710.0	8579.5
WOODLAND	3268.7	3268.7	3268.7	3268.7	3268.7	4015.0
Summary Total Potential Gross Erosion	412189.6	284902.1	397055.8	445271.2	400587.3	180473.6
Percent Reduction:	0.0	30.9	3.7	-8.0	2.8	56.2

LARE ERIC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BLACK RIVER		ELYRIA, OH		COUNTY: OH MURRAY, OHIO			
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO Y PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. SIDEW LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)
CROPLAND 1	7141.9 10.1	2312.9 3.2	6850.9 8.4	7533.3 10.6	6879.2 9.7	994.9 1.4	711.7 10.1
CROPLAND 3	6874.6 2.9	6489.4 2.7	6542.5 2.7	7200.6 3.0	6575.7 2.7	6874.6 2.9	622.7 2.6
CROPLAND 4	348.3 2.0	348.3 2.0	331.8 1.9	364.4 2.1	333.1 1.9	145.9 0.8	145.9 0.8
CROPLAND 5	182.9 1.0	182.9 1.0	174.2 1.0	191.5 1.1	174.9 1.0	182.9 1.0	177.9 0.8
CROPLAND	14597.7 6.2	9333.5 2.7	13905.3 4.0	15289.9 4.4	13962.9 4.0	8198.3 2.4	10216.5 2.9
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)
GRASSLAND AND PASTURE	32.4 177.9 -1.8	32.4 (TONS) 177.9 (ACRES)	32.4 (TONS) 177.9 (ACRES)	266.9 (ACRES)	266.9 (ACRES)	266.9 (ACRES)	266.9 (ACRES)
WOODLAND	44.6 622.7 -0.7	44.6 (TONS) 622.7 (ACRES)	44.6 (TONS) 622.7 (ACRES)	MISSING DATA 0.0 (ACRES)	MISSING DATA 0.0 (ACRES)	MISSING DATA 0.0 (ACRES)	MISSING DATA 0.0 (ACRES)
334444 TOTAL POTENTIAL GROSS EROSION	14674.7 3.4	9410.5 2.2	13982.3 3.3	15366.9 3.6	14039.9 3.3	8275.3 1.9	10293.5 2.4
PERCENT REDUCTION:	0.0	35.9	4.7	-4.7	4.3	43.6	29.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 16 ASHLAND, OHIO															
BASIN: BLACK RIVER		ELYRIA, OH		FALL PLOWING ONLY (TONS/ACRE)		WINTER COVER CRAP (TONS/ACRE)		MAXIMUM REDUCTION TILLAGE (TONS/ACRE)		REDUCED TILLAGE: MISCELL. PLANT AREA (TONS/ACRE)		SOIL NEWLY GROUP LAND AREA (ACRES)		EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)
CROPLAND 1	10912.9	5337.5	10221.8	12036.9	10912.9	2865.9	1160.9	1060.1	1060.1	1060.1	1060.1	1060.1	1060.1	1060.1	1060.1
346	5.6	2.9	5.5	6.4	5.6	1.5	3.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
CROPLAND 2	14951.2	14196.0	14676.8	17283.0	14951.2	4115.0	10287.2	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7	4892.7
346	3.1	2.9	3.0	3.5	3.1	.8	2.1	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
CROPLAND 3	4368.6	4368.6	4280.6	5040.7	4360.6	4360.6	4360.6	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1	1937.1
346	2.2	2.2	2.2	2.6	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
CROPLAND 4	38.0	38.0	29.4	34.6	30.0	20.6	20.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
346	.3	.3	.3	.4	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
CROPLAND 5	191.3	191.3	187.8	221.2	191.3	191.3	191.3	355.8	355.8	355.8	355.8	355.8	355.8	355.8	355.8
346	.5	.5	.5	.6	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
CROPLAND 6	29946.0	24115.4	29396.4	34616.4	27946.0	11553.4	22024.3	3162.7	3162.7	3162.7	3162.7	3162.7	3162.7	3162.7	3162.7
346	3.3	2.6	3.2	3.8	3.3	1.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	WATER AREA ONLY	266.9 (ACRES)											
346	0.0	0.0 (ACRES)	0.0 (TONS/ACRE)												
GRASSLAND AND PASTURE	37.7	37.7 (TONS)	OTHER LAND USE AREA	711.7 (ACRES)											
346	622.7	622.7 (ACRES)	0.06 (TONS/ACRE)												
WOODLAND	324.4	324.4 (TONS)	MISSING DATA	1690.2 (ACRES)											
346	2223.9	2223.9 (ACRES)													
346	.15	.15 (TONS/ACRE)													
SUMMARY TOTAL POTENTIAL GROSS EROSION															
34573.7	27922.5	33946.7	39931.4	34573.7	13592.5	25537.7	13699.5								
2.5	2.0	2.5	2.9	2.5	1.0	1.9									
PERCENT REDUCTION:															
0.0	19.2	1.8	-15.4	0.0	60.7	26.1									

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
PRACTICE SCENARIOS

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
WASTEWATER MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BLACK RIVER		ELYRIA, OH		COUNTY: 18 CUYAHOGA, OHIO		EXISTING	
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL LOSS > 1 FACTOR (ACRES)
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
WOODLAND	5.6	160.7	5.6 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND	0.0	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0
PASTURE	0						

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BLACK RIVER		ELYRIA, OH		COUNTY: SILOPAH, OHIO															
LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCE AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CRAP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL P. 3/4 AREA (TONS)	SOIL MGMT. 283UP LAND AREA (ACRES)	EXISTING SOIL LOSS > T. FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
230PLAND 1	5089.5	18576.4	47639.5	53900.5	49272.8	4439.0	25589.2	6466.1	5311.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
346	7.5	2.7	6.9	7.4	7.2	1.2	3.7												
240PLAND 2	8604.5	8604.5	8183.6	9259.2	4464.2	1449.7	4395.9	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0
346	1.7	1.7	1.6	1.4	1.7	.3	.7												
210PLAND 3	115349.6	115349.6	109707.5	124126.2	113468.9	115349.6	115349.6	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0	59613.0
346	1.9	1.9	1.4	2.1	1.9	1.9	1.3												
220PLAND 4	3243.5	3243.5	3044.9	3490.3	3190.4	1657.0	1657.0	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2	3031.2
346	1.1	1.1	1.0	1.2	1.1	.5	.5												
210PLAND 5	2169.8	2169.8	2063.7	2336.9	2134.4	2169.8	2169.8	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5	2924.5
346	.8	.8	.7	.8	.6	.8	.9												
230PLAND 10	44054.9	918.5	41900.0	47406.9	43336.6	7422.3	22506.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3	459.3
346	95.9	2.0	91.2	103.2	94.4	16.2	49.0												
230PLAND	223511.8	148862.3	212579.2	240518.1	219867.5	136487.4	171667.7	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1	77900.1
	2.0	1.9	2.7	3.1	2.4	1.8	2.2												
VINEYARDS AND ORCH.	74.0	74.0 (TONS)	JATER AREA ONLY	757.8 (ACRES)															
	114.8	114.8 (ACRES)																	
	.64	.64 (TONS/ACRE)																	
GRASSLAND AND PASTURE	2388.0	2388.0 (TONS)	OTHER LAND	8266.8 (ACRES)															
	25213.8	25213.8 (ACRES)	JSE AREA																
	.89	.89 (TONS/ACRE)																	
WOODLAND	5158.0	4246.5 (TONS)	MISSING DATA	27180.7 (ACRES)															
	24685.7	24685.7 (ACRES)																	
	.21	.21 (TONS/ACRE)																	
SUMMARY TOTAL POTENTIAL GROSS EROSION	200280.5	169759.6	267030.3	308912.4	275869.0	174752.2	217416.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1	155003.1
	1.8	1.2	1.7	1.9	1.8	1.1	1.4												
PERCENT REDUCTION:	8.0	32.3	4.7	-7.4	1.6	37.7	22.1												

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

ELYRIA, OH

BLACK RIVER

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO Y. AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION YILLAGE (TONS)	REDUCED YILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	109952.7	45478.1	104686.2	119155.4	20294.7	57182.0	15301.5	13946.7
	7.2	3.0	6.8	7.9	1.3	5.7	7.5	7.5
CROPLAND 2	51040.9	45172.3	48860.0	50157.8	10764.6	28611.6	17844.1	7070.3
	2.9	2.5	2.7	2.8	.6	1.5	3.3	3.3
CROPLAND 3	171291.4	170906.2	162829.4	167903.9	171291.4	171291.4	80944.9	622.7
	2.1	2.1	2.0	2.1	2.1	2.1	2.6	2.6
CROPLAND 4	4111.6	4111.6	3909.4	4030.4	2071.8	2071.8	3918.1	0.0
	1.0	1.0	1.0	1.0	.5	.5	8.0	8.0
CROPLAND 5	3496.3	3496.3	3326.5	3427.2	3496.3	3496.3	4965.7	0.0
	.7	.7	.7	.7	.7	.7	0.0	0.0
CROPLAND 10	47353.5	1056.3	45020.3	46546.0	4046.3	24177.9	505.2	505.2
	93.7	2.1	89.1	92.1	15.9	47.9	93.7	93.7
VINEYARDS AND ORCH.	387246.4	270212.8	360631.9	379746.5	215965.1	286831.0	123499.5	
	3.1	2.2	3.0	3.1	1.7	2.3		
	74.0 (TONS)	74.0 (TONS)	74.0 (TONS)	1105.4 (ACRES)				
	114.8 (ACRES)	114.8 (ACRES)	AREA ONLY					
	.64 (TONS/ACRE)	.64 (TONS/ACRE)						
PASTURE AND PASTURE	3918.4	3918.4 (TONS)	OTHER LAND	12689.9 (ACRES)				
	41147.3 (ACRES)	41147.3 (ACRES)	USE AREA					
	.10 (TONS/ACRE)	.10 (TONS/ACRE)						
WOODLAND	7504.0	6612.4 (TONS)	MISSING DATA	44654.7 (ACRES)				
	39037.0	39037.0 (ACRES)						
	.19	.17 (TONS/ACRE)						
Summary TOTAL POTENTIAL GROSS EROSION	486112.1	343435.1	463418.9	476968.9	277301.0	363694.5	248453.3	
	2.0	1.4	1.9	1.9	1.2	2.3		
PERCENT REDUCTION:	0.0	29.4	4.7	-8.0	43.0	25.2		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PLUM CREEK		OPERLIN, OH		COUNTY: 51 LOPAIN, OHIO		ALL IN BASIN	
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	JANUARY COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED VILLAGES: CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH. 3000 LAND (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
1. CROPLAND	128.0	121.7	137.7	21.6	65.4	114.4	0.0
2. CROPLAND	1.1	1.1	1.2	0.2	0.5	0.0	0.0
3. CROPLAND	4718.3	4487.5	4641.3	4718.3	4718.3	3988.2	0.0
4. CROPLAND	1.6	1.5	1.7	1.6	1.5	0.0	0.0
5. CROPLAND	169.2	160.9	162.1	86.5	86.5	168.7	0.0
6. CROPLAND	1.1	1.0	1.1	0.5	0.5	0.0	0.0
7. CROPLAND	42.1	40.0	41.4	42.1	42.1	68.9	0.0
8. CROPLAND	0.6	0.6	0.7	0.6	0.5	0.0	0.0
9. CROPLAND	5057.6	4810.1	4975.1	4968.5	4912.3	3552.5	0.0
10. VINEYARDS AND ORCH.	15.5	15.5 (TONS)	1.6	0.0 (ACRES)	1.5	0.0	0.0
11. GRASSLAND AND PASTURE	1722.3	1722.3 (ACRES)	1171.1	1171.1 (ACRES)	0.0	0.0	0.0
12. WOODLAND	31.1	31.1 (TONS)	1768.2	1768.2 (ACRES)	0.0	0.0	0.0
13. SUMMARY TOTAL POTENTIAL GROSS EROSION	6730.8	6411.7	7237.2	6408.0	6545.2	7555.0	0.0
14. PERCENT REDUCTION:	0.0	0.0	-7.5	1.6	3.7	2.9	0.0

LAKE ERIE WASTE/WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: NEFF RUN		COUNTY: 17 MEDINA, OHIO									
		LITCHFIELD, OH									
LAND USE	EXISTING POT. REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLW AREA (TONS)	SOIL WENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)			
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(ACRES)	(TONS/ACRE)			
CROPLAND 1	99.9	45.9	94.5	107.9	97.2	18.9	59.5	23.0			
545	9.3	2.0	4.1	4.7	4.2	.8	2.2	4.3			
CROPLAND 3	1029.8	1029.8	974.2	1113.3	1002.0	1029.8	1023.3	643.0			
546	1.6	1.6	1.5	1.7	1.6	1.6	1.5	0.0			
CROPLAND	1129.7	1075.7	1068.7	1221.2	1099.2	1048.7	1080.1	666.0			
	1.7	1.6	1.6	1.8	1.7	1.6	1.5				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)						
	0.00	0.00 (TONS/ACRE)	0.00 (TONS/ACRE)								
GLASSLAND AND PASTURE	13.8	13.8 (TONS)	13.8 (TONS)	0.0 (ACRES)	0.0 (ACRES)						
	275.6	275.6 (ACRES)	275.6 (ACRES)								
	.05	.05 (TONS/ACRE)									
WOODLAND	36.9	36.9 (TONS)	MISSING DATA	0.0 (ACRES)	0.0 (ACRES)						
	298.5	298.5 (ACRES)									
	.12	.12 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS EROSION	1180.4	1126.4	1119.4	1271.9	1149.9	1099.4	1131.1	1248.1			
	1.0	.9	.9	1.0	.9	.9	.9				
PERCENT REDUCTION:	0.0	4.6	5.2	-7.6	2.6	6.9	9.2				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

SASIN: NEFF NUM	LITCHFIELD, OH	COUNTY: % LOHAIN, OHIO										
LAND USE	EXISTING POT. REDUCE SOIL LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)					
CROPLAND 1	729.3	275.6	693.7	784.8	717.4	122.9	372.5	114.5				
346	6.4	2.4	6.0	6.9	6.2	1.1	3.2					
CROPLAND 3	2956.4	2956.4	2411.8	3141.3	2408.2	2956.4	2956.4	1148.2				
346	2.6	2.6	2.4	2.4	2.5	2.6	2.5					
CROPLAND 1	3685.7	3232.0	3505.5	3966.1	3625.6	3079.3	3329.3	1363.5				
346	2.9	2.6	2.4	3.1	2.9	2.4	2.5					
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)					
346	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)					
346	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)					
PASTURE AND PASTURE	121.0	121.0 (TONS)	121.0 (TONS)	121.0 (TONS)	121.0 (TONS)	121.0 (TONS)	121.0 (TONS)					
346	505.2	505.2 (ACRES)	505.2 (ACRES)	505.2 (ACRES)	505.2 (ACRES)	505.2 (ACRES)	505.2 (ACRES)					
346	.24	.24 (TONS/ACRE)	.24 (TONS/ACRE)	.24 (TONS/ACRE)	.24 (TONS/ACRE)	.24 (TONS/ACRE)	.24 (TONS/ACRE)					
WOODLAND	335.9	266.2 (TONS)	266.2 (TONS)	266.2 (TONS)	266.2 (TONS)	266.2 (TONS)	266.2 (TONS)					
346	734.8	734.8 (ACRES)	734.8 (ACRES)	734.8 (ACRES)	734.8 (ACRES)	734.8 (ACRES)	734.8 (ACRES)					
346	.46	.46 (TONS/ACRE)	.46 (TONS/ACRE)	.46 (TONS/ACRE)	.46 (TONS/ACRE)	.46 (TONS/ACRE)	.46 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	4598.7	4095.1	4398.7	4910.0	4532.0	3925.6	4202.0	2778.5				
PERCENT REDUCTION:	0.0	11.0	4.3	-6.8	1.5	14.6	3.5					

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: NEFF RUN		LITCHFIELD, OH		COUNTY: 62 ALL IN BASIN															
LAND USE		EXISTING POT-REDUCE SOIL SPRING		FALL PLOWING		WINTER COVER		MAXIMUM REDUCTION		REDUCED FILLAGE:		SOIL MGMT.		EXISTING					
GROSS		LOSS TO 1 PLOWING		ONLY		CROP		TILLAGE		CHISEL PLOW AREA		3-DUP LAND		SOIL LOSS					
CROSSLAND		AND EXISTING ONLY		(TONS)		(TONS)		(TONS)		(TONS)		(ACRES)		> 1 FACTOR					
(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)					
210PLAND	1	829.2	321.5	788.1	892.8	814.6	141.8	423.2	137.8					137.8					
546		6.8	2.3	5.7	6.5	5.9	1.0	3.1	6.0					6.0					
210PLAND	3	3986.2	3986.2	3785.9	4294.7	3910.2	3986.2	3986.2	1791.2					0.0					
546		2.2	2.2	2.1	2.4	2.2	2.2	2.2	2.2					0.0					
210PLAND		4815.4	4307.7	4574.0	5147.5	4724.6	4128.0	4403.4	1929.0										
		2.5	2.2	2.4	2.7	2.4	2.1	2.3											
VINEYARDS		0.0	0.0	0.0	0.0	0.0	0.0	0.0											
AND ORCH.		0.0	0.0	0.0	0.0	0.0	0.0	0.0											
		0.00	0.00	0.00	0.00	0.00	0.00	0.00											
31ASSLAND		134.8	134.8	134.8	134.8	134.8	134.8	134.8											
AND PASTURE		788.8	788.8	788.8	788.8	788.8	788.8	788.8											
		.17	.17	.17	.17	.17	.17	.17											
40ODLAND		372.7	303.1	303.1	MISSING DATA	275.6	275.6	275.6											
		1033.4	1033.3	1033.3															
		.36	.29	.29															
SUMMARY TOTAL POTENTIAL GROSS EROSION		5714.8	5169.7	5455.6	6114.3	5617.5	4976.8	5278.9	4018.8										
		1.4	1.3	1.4	1.5	1.4	1.2	1.3											
PERCENT REDUCTION:	0.0	9.5	9.5	4.5	-7.0	1.7	12.9	7.6											

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: ROCKY		COUNTY: 17 MEDINA, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCED LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (ACRES)	SOIL. WGT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS F FACTOR (TONS/ACRE)			
1 CROPLAND	8925.5	33248.2	85964.8	97216.7	87445.1	17012.9	10930.5	10379.5			
596	8.2	3.6	7.8	8.9	8.2	1.6	4.2	8.4			
2 CROPLAND	8123.5	8313.1	7473.5	8998.4	8098.5	1574.7	3054.1	229.6			
596	2.7	2.7	2.6	2.3	2.7	.5	1.1	3.0			
3 CROPLAND	43282.3	43282.3	40942.7	46791.7	42112.4	43282.3	16625.5	0.0			
596	2.6	2.6	2.5	2.8	2.5	2.6	2.6	0.0			
4 CROPLAND	86.9	86.9	82.2	93.9	84.5	44.0	91.9	0.0			
596	.4	.4	.9	1.0	.9	.5	.5	0.0			
5 CROPLAND	1315.9	1315.9	1244.8	1422.6	1240.3	1315.9	1837.1	0.0			
596	.7	.7	.7	.8	.7	.7	.7	0.0			
10 CROPLAND	35699.0	1423.7	33769.4	14593.6	34734.2	6753.9	436.3	436.3			
596	81.8	3.3	77.4	88.5	79.6	15.5	41.5	41.8			
1 CROPLAND	178633.1	87670.7	164977.3	193116.9	173805.1	69983.7	32975.5	10379.5			
596	5.4	2.7	5.1	5.9	5.3	2.1	3.4	8.4			
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	528.2 (ACRES)						
2 PASTURE AND PASTURE	5769.3	5769.3 (TONS)	OTHER LAND USE AREA	12721.7 (ACRES)							
596	.18	.18	.18	.18	.18	.18	.18	.18			
WOODLAND	8995.4	8995.4 (TONS)	MISSING DATA	8243.9 (ACRES)							
596	.47	.47	.47	.47	.47	.47	.47	.47			
SUMMARY TOTAL POTENTIAL GROSS PRODUCTION	211883.2	111925.8	201201.1	227706.5	206502.0	92505.4	139212.0	92359.0			
PERCENT REDUCTION:	0.0	47.2	5.0	-7.5	2.5	36.3	34.3	34.3			

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 18 CUYAHOGA, OHIO															
BASIN: ROCKY		BEREA, OH		FALL PLOWING ONLY		WINTER COVER CROP		MAXIMUM REDUCTION TILLAGE (TONS)		REDUCED TILLAGE: CHISEL PLOW AREA (TONS)		SOIL MGMT. GROUP LAND AREA (ACRES)		EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS)	LOSS TO T PLOUGHING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
CROPLAND 1	1395.7	294.0	1375.5	1587.8	1365.3	212.4	91.9	68.9	19.0	68.9	19.0	0.0	0.0	0.0	0.0
SW6	15.2	3.2	15.0	17.3	14.9	7.5	19.0	19.0	19.0	19.0	19.0	0.0	0.0	0.0	0.0
CROPLAND 2	894.9	894.9	881.9	1018.1	875.5	136.2	441.0	520.0	0.0	520.0	0.0	0.0	0.0	0.0	0.0
SW6	1.4	1.4	1.4	1.6	1.4	.2	.7	.7	.7	.7	.7	0.0	0.0	0.0	0.0
CROPLAND 3	2231.1	2231.1	2198.8	2530.3	2231.1	2231.1	1960.0	0.0	0.0	1960.0	0.0	0.0	0.0	0.0	0.0
SW6	1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
CROPLAND 4	4521.7	3420.0	4456.2	5144.2	4423.4	2574.7	2571.9	1.3	1.3	2571.9	1.3	1.3	1.3	1.3	1.3
SW6	1.8	1.3	1.7	2.0	1.7	1.0	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)	91.9 (ACRES)
GRASSLAND AND PASTURE	458.1	458.1 (TONS)	OTHER LAND USE AREA	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)	5901.6 (ACRES)
WOODLAND	1559.5	1559.5 (TONS)	MISSING DATA	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)
SW6	5281.6	5281.6 (ACRES)	MISSING DATA	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)
SW6	.30	.30 (TONS/ACRE)	MISSING DATA	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)	26798.3 (ACRES)
SUMMARY TOTAL POTENTIAL GROSS EROSION	22437.9	18657.7	22213.1	24573.0	22100.6	15774.4	37820.8	18451.1	18451.1	37820.8	18451.1	37820.8	18451.1	37820.8	18451.1
PERCENT REDUCTION:	0.0	16.0	1.0	-9.5	1.5	29.7	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: ROCKY		BEWA. OH		COUNTY: 19 SUMMIT, OHIO											
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING (TONS/ACRE)	
CROPLAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
GRASSLAND AND PASTURE	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	
	.20	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	
WOODLAND	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	574.5	
	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	1492.6	
	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	.34	
SUMMARY TOTAL POTENTIAL GROSS EROSION															
	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	
	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	
PERCENT REDUCTIONS:															
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

COUNTY: 51 LORAIN, OHIO

SECRET, ON

ANSWER: B

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: ROCKY		AREA: ON		COUNTY: 02 ALL IN BASIN															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MOIST. CRIP. LAND (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
210PLAND 1	97272.4	35173.9	92193.2	105243.1	94739.6	10269.4	11386.3	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4	11005.4
210PLAND 2	9927.6	9896.8	9430.0	10779.7	9671.6	1930.4	4202.3	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6
210PLAND 3	53486.7	53486.7	50729.0	57910.0	52138.4	53486.7	23552.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210PLAND 4	245.3	245.3	232.9	269.4	240.4	125.0	229.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210PLAND 5	1427.2	1427.2	1350.6	1542.3	1389.0	1427.2	1997.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210PLAND 10	35699.0	1423.7	33769.4	38593.6	34734.2	6753.9	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3	436.3
210PLAND 10	81.0	3.3	77.4	88.5	79.6	15.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
210PLAND 10	19058.2	10265.6	18765.9	21433.1	19290.0	81891.6	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2	92505.2
VINEYARDS AND PACH.	138.9	138.9 (TONS)	160.7 (ACRES)	160.7 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)	757.0 (ACRES)
GRASSLAND AND PASTURE	6716.7	6716.7 (TONS)	41747.5 (ACRES)	41747.5 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)	20529.3 (ACRES)
WOODLAND	10800.2	10747.8 (TONS)	28566.5 (ACRES)	28566.5 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)	36443.0 (ACRES)
SUMMARY TOTAL POTENTIAL GROSS EROSION	285305.7	159127.2	271541.4	306830.2	278495.5	131668.2	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5	191948.5
PERCENT REDUCTION:	0.0	44.2	4.9	-7.5	2.4	93.9	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CUYAHOGA RIVER		INDEPENDENCE, OH		COUNTY: 17 MEDINA, OHIO															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)											
1 CROPLAND	5136.7	2184.7	4857.2	5551.1	995.9	971.4	320.2	585.2											
2 CROPLAND	1748.1	1539.0	1672.5	1911.5	1720.3	334.5	982.2	344.5											
3 CROPLAND	16.5	16.5	15.6	17.8	16.1	6.4	23.0	0.0											
4 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
5 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
6 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
7 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
8 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
9 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
10 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
11 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
12 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
13 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
14 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
15 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
16 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
17 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
18 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
19 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
20 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
21 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
22 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
23 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
24 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
25 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
26 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
27 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
28 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
29 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
30 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
31 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
32 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
33 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
34 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
35 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
36 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
37 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
38 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
39 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
40 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
41 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
42 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
43 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
44 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
45 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
46 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
47 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
48 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
49 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
50 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
51 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
52 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
53 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
54 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
55 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
56 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
57 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
58 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
59 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
60 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
61 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
62 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
63 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
64 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
65 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
66 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
67 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
68 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
69 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
70 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
71 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
72 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
73 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
74 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
75 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
76 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
77 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
78 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
79 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
80 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
81 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
82 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
83 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
84 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
85 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
86 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
87 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
88 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
89 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
90 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
91 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
92 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
93 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
94 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
95 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
96 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
97 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
98 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
99 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
100 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
101 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
102 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
103 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
104 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
105 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
106 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
107 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
108 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
109 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
110 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
111 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
112 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
113 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
114 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
115 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
116 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
117 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
118 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
119 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
120 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
121 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
122 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
123 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
124 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
125 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
126 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
127 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
128 CROPLAND	17.8	17.8	16.8	19.2	17.3	17.8	23.0	0.0											
129 CROPLAND	17.8	17.8																	

LAKEL ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: IN CUYAHOGA, OHIO

RIVER: CUYAHOGA RIVER

INDEPENDENCE, OH

LAND USE	EXISTING POT. REDUCED SOIL SPRING LOSS TO T. PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER (TONS)	MAXIMUM TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)
200PLAND 1	2221.5	1253.1	2189.3	2527.4	2173.2	338.1	1099.7
546	5.4	3.0	5.3	6.1	5.3	.8	2.5
200PLAND 2	479.1	472.2	545.1	468.7	72.9	235.1	206.7
546	2.3	2.3	2.3	2.3	.4	1.3	3.3
200PLAND 3	1250.9	1232.7	1423.1	1223.7	1250.9	620.0	0.9
545	2.0	2.0	2.3	2.0	2.0	2.0	1.0
200PLAND 5	15.0	15.0	14.8	17.1	15.0	15.0	0.0
546	.7	.6	.7	.6	.7	.7	0.0
200PLAND 10	1741.4	68.9	1716.2	1981.2	265.0	459.1	23.0
546	75.7	3.0	74.6	86.1	74.3	37.3	75.7
200PLAND	5707.9	3067.0	5625.2	6493.9	1941.9	3454.9	1286.0
	9.4	2.4	4.4	5.0	4.3	2.7	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	323.5 (ACRES)		
GRASSLAND AND PASTURE	1833.3	1433.3 (TONS)	OTHER LAND 10035.0 (ACRES)				
	7026.8	7026.8 (ACRES)	USE AREA .26 (TONS/ACRE)				
WOODLAND	5894.7	5894.7 (TONS)	MISSING DATA 21438.2 (ACRES)				
	13961.8	13961.8 (ACRES)					
	.42	.42 (TONS/ACRE)					
3 YEARLY TOTAL POTENTIAL GROSS EROSION	26608.6	21378.5	26444.8	28165.2	26363.0	19150.3	44112.9
	.6	.5	.6	.6	.6	.4	.5
PERCENT REDUCTION:	0.0	19.7	.6	-5.8	.9	28.0	15.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 21 CUYAHOGA, OHIO									
INDEPENDENCE, OH									
BASIN: CUYAHOGA RIVER									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM PRODUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES)
WOODLAND 1	373.6	373.6	165.5	438.6	323.0	170.6	357.0	229.5	0.0
545	1.6	1.6	1.5	1.3	1.4	1.3	1.5		0.0
CROPLAND 2	956.7	956.7	935.3	1123.0	956.7	436.7	913.1	757.4	0.0
546	1.3	1.3	1.2	1.5	1.3	.6	1.2		0.0
WOODLAND 3	150.0	150.0	146.7	176.1	150.0	150.0	150.0	114.9	0.0
546	1.3	1.3	1.3	1.3	1.3	1.3	1.3		0.0
CROPLAND 4	7.6	7.6	7.4	8.9	7.6	7.6	7.6	45.3	0.0
546	.2	.2	.2	.2	.2	.2	.2		0.0
WOODLAND 5	1487.9	1487.9	1455.5	1746.6	1487.9	764.9	1430.1	1144.1	
545	1.3	1.3	1.3	1.5	1.3	.7	1.2		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	1377.8 (ACRES)					
WOODLAND 6	642.9	642.9 (TONS)	OTHER LAND USE AREA	1951.9 (ACRES)					
AND PASTURE	7049.8	7049.8 (ACRES)							
545	.09	.09 (TONS/ACRE)							
WOODLAND 7	1654.6	1654.6 (TONS)	MISSING DATA	67145.1 (ACRES)					
545	.19	.19 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	18682.5	18682.5	18522.6	19959.3	18682.5	15114.2	18397.2	94206.3	
PERCENT REDUCTION:	0.0	0.0	.9	-6.8	0.0	19.1	1.5		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

LAKE ERIE WASTEWATER MANAGEMENT STUDY										U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT									
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS																			
BASIN: CUYAHOGA RIVER					INDEPENDENCE, OH					COUNTY: 22 PORTAGE, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. STUMP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)		LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. STUMP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)	
CROPLAND 1	15864.1	8969.1	15643.7	17516.6	15864.1	3194.8	2365.2	2204.5		CROPLAND 1	15864.1	8969.1	15643.7	17516.6	15864.1	3194.8	2365.2	2204.5	
SW	6.7	3.8	6.6	7.4	6.7	1.4	3.3	6.9		SW	6.7	3.8	6.6	7.4	6.7	1.4	3.3	6.9	
CROPLAND 2	9088.6	7809.5	8962.3	10035.3	9088.6	1830.3	2135.5	1538.6		CROPLAND 2	9088.6	7809.5	8962.3	10035.3	9088.6	1830.3	2135.5	1538.6	
SW	4.3	3.7	4.2	4.7	4.3	.9	2.2	4.8		SW	4.3	3.7	4.2	4.7	4.3	.9	2.2	4.8	
CROPLAND 3	2553.5	2305.6	2518.0	2819.5	2553.5	2553.5	1056.3	597.1		CROPLAND 3	2553.5	2305.6	2518.0	2819.5	2553.5	2553.5	1056.3	597.1	
SW	2.4	2.2	2.4	2.7	2.4	2.4	2.4	3.4		SW	2.4	2.2	2.4	2.7	2.4	2.4	2.4	3.4	
CROPLAND 4	18.5	10.5	10.3	11.6	10.5	5.5	23.0	0.0		CROPLAND 4	18.5	10.5	10.3	11.6	10.5	5.5	23.0	0.0	
SW	.5	.5	.4	.5	.5	.2	.2	0.0		SW	.5	.5	.4	.5	.5	.2	.2	0.0	
CROPLAND 5	253.8	253.8	250.3	280.2	253.8	253.8	551.1	0.0		CROPLAND 5	253.8	253.8	250.3	280.2	253.8	253.8	551.1	0.0	
SW	.5	.5	.5	.5	.5	.5	.5	0.0		SW	.5	.5	.5	.5	.5	.5	.5	0.0	
CROPLAND 10	4145.2	298.5	4087.6	4577.0	4145.2	834.8	114.8	114.8		CROPLAND 10	4145.2	298.5	4087.6	4577.0	4145.2	834.8	114.8	114.8	
SW	36.1	2.6	35.6	39.9	36.1	7.3	19.1	36.1		SW	36.1	2.6	35.6	39.9	36.1	7.3	19.1	36.1	
CROPLAND	31915.7	19647.0	31472.2	35240.2	31915.7	8672.7	6246.3	114.8		CROPLAND	31915.7	19647.0	31472.2	35240.2	31915.7	8672.7	6246.3	114.8	
SW	5.1	3.1	5.0	5.6	5.1	1.4	2.3	36.1		SW	5.1	3.1	5.0	5.6	5.1	1.4	2.3	36.1	
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	1377.8	0.0	0.0	0.0		VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	1377.8	0.0	0.0	0.0	
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
GRASSLAND AND PASTURE	5963.9	5963.9	5963.9	14489.5	14489.5	0.0	0.0	0.0		GRASSLAND AND PASTURE	5963.9	5963.9	5963.9	14489.5	14489.5	0.0	0.0	0.0	
SW	.10	.10	.10	.10	.10	.10	.10	.10		SW	.10	.10	.10	.10	.10	.10	.10	.10	
WOODLAND	4626.7	4626.7	4626.7	25581.2	25581.2	0.0	0.0	0.0		WOODLAND	4626.7	4626.7	4626.7	25581.2	25581.2	0.0	0.0	0.0	
SW	.17	.17	.17	.17	.17	.17	.17	.17		SW	.17	.17	.17	.17	.17	.17	.17	.17	
SUMMARY TOTAL POTENTIAL GROSS EROSION	54069.7	38463.4	53505.5	54298.5	54069.7	24203.7	119616.4	119616.4		SUMMARY TOTAL POTENTIAL GROSS EROSION	54069.7	38463.4	53505.5	54298.5	54069.7	24203.7	119616.4	119616.4	
PERCENT REDUCTION:	0.0	28.9	1.7	-7.4	0.0	54.7	32.3	32.3		PERCENT REDUCTION:	0.0	28.9	1.7	-7.4	0.0	54.7	32.3	32.3	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CUYAHOGA RIVER			INDEPENDENCE, OH			COUNTY: 23 STARK, OHIO					
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO T. PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOJ AREA (TONS/ACRE)	SOIL MGMT. GRADUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)			
BARPLAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
BRASSLAND AND PASTURE	179.8 1515.6 .12	179.8 (TONS) 1515.6 (ACRES) .12 (TONS/ACRE)	OTHER LAND USE AREA ONLY	2135.6 (ACRES)							
WOODLAND	0.0	0.0 (TONS)	MISSING DATA	1906.0 (ACRES)							
	0.0	0.0 (ACRES)									
	0.00	0.00 (TONS/ACRE)									
JANUARY TOTAL POTENTIAL GROSS EROSION											
	405.9	405.9	405.9	405.9	405.9	405.9	3421.5				
	.1	.1	.1	.1	.1	.1					
PERCENT REDUCTION:											
	0.0	0.0	0.0	0.0	0.0	0.0	0.0				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CUYAMOGA RIVER			INDEPENDENCE, OH			COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL REENT-STORP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)						
1 CROPLAND	26622.1	15605.9	25989.3	29724.2	26435.1	6094.4	15502.3	4569.7	3054.1						
546	5.8	3.4	5.7	6.5	5.8	1.3	3.4		7.3						
2 CROPLAND	13144.8	11636.6	12868.6	14653.7	13086.6	3074.0	7709.3	4202.3	1083.0						
346	3.1	2.8	3.1	3.5	3.1	.7	1.3		9.8						
3 CROPLAND	4860.3	4612.4	4775.2	5522.8	4833.1	4860.3	4860.3	2594.9	597.1						
546	1.9	1.8	1.8	2.1	1.9	1.9	1.9		3.4						
4 CROPLAND	27.0	27.0	26.0	29.4	26.6	13.9	13.9	45.9	0.0						
546	.6	.6	.6	.6	.6	.3	.3		0.0						
5 CROPLAND	340.9	340.9	334.6	382.4	340.1	340.9	340.9	526.7	0.0						
546	.4	.4	.4	.5	.4	.4	.4		0.0						
10 CROPLAND	7080.9	482.2	6960.7	8013.6	7043.0	1659.6	4258.7	183.7	183.7						
546	38.5	2.6	37.9	43.6	38.3	9.0	23.2		34.5						
11 CROPLAND	52076.0	32705.0	50954.4	58326.1	51764.5	16043.1	32685.5	12423.2							
546	4.2	2.6	4.1	4.7	4.2	1.3	2.5								
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	3237.6 (ACRES)											
	0.0	0.0 (ACRES)													
	0.00	0.00 (TONS/ACRE)													
BRASSLAND AND PASTURE	18886.6	14886.6 (TONS)	OTHER LAND	47557.3 (ACRES)											
	13771.6	13771.6 (ACRES)	JSE AREA												
	.14	.14 (TONS/ACRE)													
WOODLAND	24259.4	23562.5 (TONS)	MISSING DATA	160376.5 (ACRES)											
	87008.4	87008.4 (ACRES)													
	.28	.27 (TONS/ACRE)													
SUMMARY TOTAL POTENTIAL GROSS EROSION	159619.3	127147.9	157739.1	176096.2	159097.1	49217.4	127115.4	397519.7							
	.4	.3	.4	.4	.4	.2	.3								
PERCENT REDUCTION:	0.0	20.3	1.2	-6.0	.3	37.4	20.4								

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CUYAMOGA		OLD PORTAGE, OH		COUNTY: 19 SUMMIT, OHIO			
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WGT. LOSS FACTOR (TONS/ACRE)
CROPLAND 1	259.5 1.9	259.5 1.9	251.4 1.4	316.2 2.3	259.5 1.9	263.5 1.9	0.0 0.0
CROPLAND 2	191.4 2.1	191.4 2.1	185.4 2.0	233.2 2.5	191.4 2.1	199.4 2.1	0.0 0.0
CROPLAND 3	23.4 .5	23.4 .5	22.7 .5	24.6 .6	23.4 .5	23.4 .5	0.0 0.0
CROPLAND 4	474.3 1.7	474.3 1.7	459.5 1.7	578.0 2.1	474.3 1.7	481.3 1.7	0.0 0.0
VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	23.0 (ACRES)		
GRASSLAND AND PASTURE	939.0 8210.0 -11	939.0 (TONS) 8210.0 (ACRES)	939.0 (TONS) 8210.0 (ACRES)	939.0 (TONS) 8210.0 (ACRES)	939.0 (TONS) 8210.0 (ACRES)		
WOODLAND	628.0 3743.0 -17	628.0 (TONS) 3743.0 (ACRES)	628.0 (TONS) 3743.0 (ACRES)	628.0 (TONS) 3743.0 (ACRES)	628.0 (TONS) 3743.0 (ACRES)		
SUMMARY TOTAL POTENTIAL GROSS EROSION	5633.1 .2	5633.1 .2	5592.3 .2	5319.2 .2	5633.1 .2	5632.4 .2	35489.7
PERCENT REDUCTION:	0.0	0.0	.7	-5.1	0.0	11.7	-0.3

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

30 IN: CUYAMOGA

LAND USE	EXISTING POTENTIAL GROSS EROSION		LOSS TO TILLAGE		SOIL LOSS		EXISTING SOIL LOSS		REDUCED TILLAGE		SOIL LOSS		EXISTING SOIL LOSS	
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)
1 CROPLAND	373.6	373.6	365.5	438.6	373.6	170.6	357.4	229.6	0.0	0.0	0.0	0.0	0.0	0.0
2 CROPLAND	956.7	956.7	935.9	1123.0	956.7	436.7	913.1	737.4	0.0	0.0	0.0	0.0	0.0	0.0
3 CROPLAND	150.0	150.0	146.7	176.1	150.0	150.0	150.0	114.9	0.0	0.0	0.0	0.0	0.0	0.0
5 CROPLAND	7.6	7.6	7.4	8.9	7.6	7.6	7.5	45.3	0.0	0.0	0.0	0.0	0.0	0.0
WINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	639.4	639.4	639.4	639.4	639.4	639.4	639.4	639.4	0.0	0.0	0.0	0.0	0.0	0.0
WOODLAND	1646.0	1646.0	1646.0	1646.0	1646.0	1646.0	1646.0	1646.0	0.0	0.0	0.0	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS EROSION	18789.4	18789.4	18628.1	20077.6	18789.4	15189.2	18501.5	81931.2	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT REDUCTION:	0.0	0.0	0.9	-6.3	0.0	19.2	1.3							

COUNTY: 22 PAGE: 0010

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CUYAHOGA		COUNTY: 62 ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)			
CROPLAND 1	13959.5	8775.5	13758.2	15469.4	13959.5	2976.0	2434.1	1986.0			
546	5.7	3.6	5.7	6.4	5.7	3.1		6.6			
CROPLAND 2	10214.6	8865.7	10061.9	11367.3	10214.6	2352.4	2362.3	1515.6			
545	3.4	3.0	3.4	3.9	3.4	2.0		4.9			
CROPLAND 3	1667.5	1599.6	1642.7	1854.3	1667.5	1667.5	895.6	321.5			
546	1.9	1.8	1.8	2.1	1.9	1.9		3.2			
CROPLAND 4	10.5	10.5	10.3	11.6	10.5	5.5	23.0	0.0			
546	.5	.5	.4	.5	.5	.2		0.0			
CROPLAND 5	227.3	227.3	224.1	251.6	227.3	227.3	628.2	0.0			
546	.4	.4	.4	.5	.4	.4		0.0			
CROPLAND 10	1480.6	160.7	1460.0	1634.8	1480.6	298.2	45.3	45.9			
545	32.3	3.5	31.8	35.6	32.3	17.3		32.3			
CROPLAND	27560.0	19639.3	27157.2	30589.0	27560.0	7526.9	6889.1				
	4.0	2.9	3.9	4.4	4.0	1.1					
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	2617.8 (ACRES)						
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)							
	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)								
PASTURE AND PASTURE	6338.6	6338.6 (TONS)	6338.6 (TONS)	23330.8 (ACRES)							
	65905.0	65905.0 (ACRES)	65905.0 (ACRES)								
	.10	.10 (TONS/ACRE)	.10 (TONS/ACRE)								
WOODLAND	6333.6	6333.6 (TONS)	6333.6 (TONS)	114518.5 (ACRES)							
	37614.1	37614.1 (ACRES)	37614.1 (ACRES)								
	.17	.17 (TONS/ACRE)	.17 (TONS/ACRE)								
SUMMARY TOTAL POTENTIAL GROSS EROSION	81962.2	81141.6	88132.9	81962.2	41150.2	58881.5	224926.7				
	.4	.4	.4	.4	.2	.3					
PERCENT REDUCTION:	0.0	19.7	1.0	-7.5	0.0	29.2					

COUNTY: 17 MEYIA. OHIO

BASIN: CUYANOGA RIVER

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

WASIN: CUYAHOGA RIVER
PENINSULA, OH
COUNTY: 18 CUYAHOGA, OHIO

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CUYAHOGA RIVER			PENINSULA, OH			COUNTY: 13 SUMMIT, OHIO					
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. REDUCT. LOSS TO T. EROSION (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. SODUP LAND TILLAGE (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE)		
1 CROPLAND	2650.6	2527.8	2567.7	3230.4	2450.6	1242.5	2692.0	872.6	45.9		
346 1	3.0	2.9	2.4	3.7	3.0	1.4	3.1		4.7		
2 CROPLAND	532.0	532.0	515.4	648.0	532.0	249.4	540.3	344.5	9.0		
346 2	1.5	1.5	1.5	1.9	1.5	.7	1.5		2.0		
3 CROPLAND	466.6	466.6	452.0	568.7	466.6	466.6	466.6	459.3	0.0		
346 3	1.0	1.0	1.0	1.2	1.0	1.0	1.0		0.0		
4 CROPLAND	21.6	21.6	20.9	26.3	21.6	21.6	21.6	91.9	0.0		
346 4	.2	.2	.2	.3	.2	.2	.2		3.0		
5 CROPLAND	845.9	845.9	819.4	1030.9	845.9	396.3	859.1	23.0	23.0		
346 5	36.8	2.0	35.6	44.4	36.8	17.2	37.4		36.8		
6 CROPLAND	4516.7	3593.9	4375.4	5504.7	4516.7	2376.6	4579.6	1791.3			
346 6	2.5	2.0	2.4	3.1	2.5	1.3	2.5				
7 VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	137.8 (ACRES)					
8 VINEYARDS AND ORCH.	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)						
9 PASTURE	6232.2	6232.2 (TONS)	6232.2 (TONS)	6232.2 (TONS)	6232.2 (TONS)	11435.8 (ACRES)					
346 9	37453.3	37453.3 (ACRES)	37453.3 (ACRES)	37453.3 (ACRES)	37453.3 (ACRES)						
10 PASTURE	.17	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)						
11 WOODLAND	7121.7	6692.7 (TONS)	6692.7 (TONS)	6692.7 (TONS)	6692.7 (TONS)	33251.1 (ACRES)					
346 11	19541.9	19541.9 (ACRES)	19541.9 (ACRES)	19541.9 (ACRES)	19541.9 (ACRES)						
12 PASTURE	.36	.36 (TONS/ACRE)	.36 (TONS/ACRE)	.36 (TONS/ACRE)	.36 (TONS/ACRE)						
13 SUMMARY TOTAL POTENTIAL GROSS EROSION	27978.7	26533.9	27757.4	29525.5	27978.7	24628.1	28077.1	92037.5			
346 13	.3	.3	.3	.3	.3	.3	.3				
14 PERCENT REDUCTION:	0.0	5.2	.8	-5.5	0.0	12.0	-1.1				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CUYAHOGA RIVER										PENINSULA, OH										COUNTY: 21 GEauga, OHIO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CUYAHOGA RIVER		PENINSULA, OH		COUNTY: 02 ALL IN BASIN															
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO 1/2 PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GRASSLAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)
1	21569.6	13217.4	21814.8	24030.5	21429.0	5081.1	5720.1	2488.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
2	12323.3	10745.4	12064.4	13693.9	12275.6	2946.5	3697.1	1868.0	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
3	2285.9	2217.9	2244.7	2593.8	2282.0	2285.9	1377.3	321.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
4	27.0	27.0	26.0	29.4	24.6	13.9	45.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	266.7	266.7	261.9	297.1	266.2	266.7	643.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	2326.5	286.7	2279.5	2665.7	2326.5	694.7	68.9	68.9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
10	33.8	3.0	33.1	38.7	33.6	10.1	68.9	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
10	38799.0	26641.1	37891.3	43310.4	38605.9	11188.8	9332.9	24069.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
VINEYARDS AND GRASS	0.0	0.0	0.0	0.0	2755.6	2755.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2	11867.2
WOODLAND	12981.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5	12552.5
SUMMARY TOTAL POTENTIAL GROSS EROSION	113704.7	92055.4	112043.1	121764.2	113559.7	64379.9	285436.0	67391.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
PERCENT REDUCTION:	0.0	19.0	1.4	-7.1	4.4	23.1													

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

3051N: CUYAHOGA RIVER		MIRAM RAPIDS, 04		COUNTY: 21		GEAUGA, OHIO			
LAND USE	EXISTING POT. REDUCE SOIL LOSS TO Y PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	STILL 90%: STOOD LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)		
BAROPLAND 1	373.6 1.6	373.6 1.6	438.6 1.9	373.6 1.6	357.4 1.5	229.5	0.0 0.0		
BAROPLAND 2	956.7 1.3	956.7 1.3	1123.0 1.5	956.7 1.3	915.1 1.2	757.9	0.0 0.0		
BAROPLAND 3	150.0 1.3	146.7 1.3	176.1 1.5	150.0 1.3	150.0 1.3	114.8	0.0 0.0		
BAROPLAND 5	7.6 .2	7.6 .2	8.9 .2	7.6 .2	7.6 .2	49.9	0.0 0.0		
BAROPLAND	1487.9 1.3	1487.9 1.3	1746.6 1.5	1487.9 1.3	1438.1 1.2	1148.1			
VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	JATEP AREA ONLY	1331.9 (ACRES)					
BAROPLAND AND PASTURE	639.4 6957.9 .09	639.4 (TONS) 6957.9 (ACRES) .09 (TONS/ACRE)	OTHER LAND USE AREA	1893.0 (ACRES)					
WOODLAND	1646.0 8749.1 .19	1646.0 (TONS) 8749.1 (ACRES) .19 (TONS/ACRE)	MISSING DATA	67076.1 (ACRES)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	18789.4 .2	18789.4 .2	20877.6 .2	18789.4 .2	18581.5 .2	83931.2			
PERCENT REDUCTION:	0.0	0.0	-6.9	0.0	19.2	1.5			

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CUYAHOGA RIVER		MIRAM RAPIDS, 34		COUNTY: 22 PORTAGE, OHIO																	
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)												
1 CROPLAND	385.9	275.6	380.6	426.1	385.9	77.7	203.7	60.9	68.9												
546	5.6	4.0	5.5	6.2	5.6	1.1	3.0		5.6												
2 CROPLAND	507.8	390.4	500.7	560.6	507.8	102.3	268.0	114.8	114.8												
546	4.4	3.4	4.4	4.9	4.4	.9	2.3		4.4												
3 CROPLAND	196.5	159.8	193.9	217.0	196.5	196.5	196.5	60.9	45.9												
546	2.9	2.3	2.8	3.1	2.9	2.9	2.9		3.8												
4 CROPLAND	17.7	17.7	17.4	19.5	17.7	17.7	17.7	45.9	0.0												
546	.4	.4	.4	.4	.4	.4	.4		0.0												
5 CROPLAND	1107.9	843.5	1092.5	1223.2	1107.9	394.2	683.7	298.5													
546	3.7	2.8	3.7	4.1	3.7	1.3	2.3														
6 VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)															
546	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)																
7 GRASSLAND AND PASTURE	216.6	216.6 (TONS)	216.6 (TONS)	216.6 (TONS)	216.6 (TONS)	803.7 (ACRES)															
546	2663.8	2663.8 (ACRES)	2663.8 (ACRES)	2663.8 (ACRES)	2663.8 (ACRES)																
546	.08	.08 (TONS/ACRE)	.08 (TONS/ACRE)	.08 (TONS/ACRE)	.08 (TONS/ACRE)																
8 WOODLAND	394.0	394.0 (TONS)	394.0 (TONS)	394.0 (TONS)	394.0 (TONS)	1997.6 (ACRES)															
546	2778.6	2778.6 (ACRES)	2778.6 (ACRES)	2778.6 (ACRES)	2778.6 (ACRES)																
546	.14	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)																
SUMMARY TOTAL POTENTIAL GROSS EROSION		2316.5	1960.1	2295.8	2472.0	2316.5	1354.5	1747.7	7730.7												
546		.3	.3	.3	.3	.3	.2	.2													
PERCENT REDUCTION:		0.0	15.4	.9	-6.7	0.0	41.5	24.5													

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CUYAHOGA RIVER		WYOM RAPIDS, OH		COUNTY: ALL IN BASIN						
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOODING AND EXISTING ONLY (TONS)	SOIL SPRING PLOTTING ONLY (TONS/ACRE)	FALL PLOTTING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOTTING AREA (TONS/ACRE)	SOIL MGMT. REDUCTION TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	
CROPLAND 1	759.5 2.5	649.2 2.2	746.0 2.5	954.7 2.0	759.5 2.5	248.3 0.8	561.0 1.9	298.5 5.6	68.9 5.6	
CROPLAND 2	1469.4 1.7	1347.1 1.5	1435.6 1.6	1643.7 1.9	1464.4 1.7	539.0 0.6	1103.0 1.0	872.6 4.4	114.8 4.4	
CROPLAND 3	346.5 1.9	309.8 1.7	300.5 1.9	393.1 2.1	346.5 1.9	346.5 1.9	346.5 1.9	103.7 3.8	45.9 3.8	
CROPLAND 5	25.2 0.3	25.2 0.3	24.8 0.3	28.4 0.3	25.2 0.3	25.2 0.3	25.2 0.3	91.3 0.0	0.0 0.0	
CROPLAND	2595.6 1.8	2331.3 1.6	2597.9 1.8	2949.9 2.1	2595.6 1.8	1159.0 0.8	2113.7 1.5	106.7		
VINEYARDS AND ORCH.	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	JATER AREA ONLY	1331.9 (ACRES)						
GRASSLAND AND PASTURE	856.0 9621.7 0.09	856.0 (TONS) 9621.7 (ACRES) 0.09 (TONS/ACRE)	OTHER LAND USE AREA	2686.7 (ACRES)						
WOODLAND	2048.0 11527.7 0.10	2048.0 (TONS) 11527.7 (ACRES) 0.10 (TONS/ACRE)	MISSING DATA	69073.9 (ACRES)						
[-----]-----[-----]-----[-----]-----[-----]-----[-----]-----[-----]-----[-----]-----[-----]										
SUMMARY TOTAL POTENTIAL GROSS EROSION										
	22278.8	21206.6	22085.3	23797.3	22278.8	16450.7	20331.9	91670.3		
	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2		
PERCENT REDUCTION:										
	0.0	4.8	0.9	-6.3	0.0	26.2	8.7			

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 19 SUMMIT, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)
WOODLAND 1	128.0	128.0	124.0	155.9	128.0	138.3	68.9	0.0	0.0
WOODLAND 2	191.4	191.4	185.4	233.2	191.4	194.4	91.4	0.0	0.0
WOODLAND 3	319.4	319.4	309.4	389.1	319.4	324.4	168.3	0.0	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0			
GRASSLAND AND PASTURE	436.4	436.4	394.7	3972.7	3972.7				
WOODLAND 4	270.1	270.1	1653.4	16327.0	16327.0				
SUMMARY TOTAL POTENTIAL GROSS EROSION	3931.9	3931.9	3893.6	4199.0	3931.9	3951.1	22090.3		
PERCENT REDUCTION:	0.0	0.0	1.0	-6.8	0.0	16.5	-5.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: LITTLE CUYAHOGA RIVER ARJCV, 1-4 CUMULATIVE: 22 PORTAGE, ONT

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISPL PLOW AREA (TONS/ACRE)	SOIL WASH: 2000 PLOW AREA (ACRES)	EXISTING SOIL LOSS: 5 T FACTOR (TONS/ACRE)
230PLAND 1	743.5	442.2	711.2	741.5	149.3	391.1	114.9	114.9
546	6.5	4.2	6.4	7.1	6.5	3.4	6.5	6.5
230PLAND 2	723.1	643.0	713.0	723.1	145.6	381.5	168.7	168.7
546	6.5	4.0	4.4	5.0	4.5	2.4	6.5	6.5
230PLAND 3	52.8	52.8	52.0	52.8	52.8	52.8	45.3	45.3
546	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2
230PLAND 5	20.9	20.9	20.7	23.1	20.9	20.9	45.3	45.3
546	.5	.5	.5	.5	.5	.5	.5	.5
230PLAND	1538.3	1198.9	1516.9	1516.5	368.6	846.7	367.3	367.3
546	4.2	3.3	4.1	4.6	4.2	2.4	4.2	4.2
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	567.4 (ACRES)				
546	0.0	0.0 (ACRES)						
BRASSLAND AND PASTURE	359.5	359.5 (TONS)	OTHER LAND USE AREA	1538.6 (ACRES)				
546	4248.2	4248.2 (ACRES)						
WOODLAND	311.6	311.6 (TONS)	MISSING DATA	4753.4 (ACRES)				
546	2112.6	2112.6 (ACRES)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	3778.3	3191.2	3733.8	4043.7	1774.2	2590.1	11981.3	11981.3
PERCENT REDUCTION:	0.0	15.4	1.0	-7.3	0.0	52.9	31.3	31.3

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

WATER: LITTLE CUYAHOGA RIVER AND RM. ON COUNTY: 62 ALL IN BASIN

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO 1 PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WENT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)
200PLAND 1	869.5 6.7	610.2 5.3	855.2 4.7	974.7 5.3	209.3 1.1	521.3 2.3	114.8 6.5
200PLAND 2	914.4 3.6	834.4 3.3	898.4 3.6	1031.6 4.2	235.3 .9	576.0 2.3	169.7 4.5
200PLAND 3	52.8 1.2	52.8 1.2	52.8 1.1	58.2 1.3	52.8 1.2	45.9 1.2	0.0 0.0
200PLAND 5	28.9 .5	28.9 .5	28.7 .5	23.1 .5	20.9 .5	45.9 .5	0.8 0.8
200PLAND	1857.6 3.5	1518.3 2.9	1826.3 3.5	2097.6 4.0	518.3 3.0	1171.3 2.2	528.1
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	367.4 (ACRES)			
11ASSLAVD AND PASTURE	795.9 8198.0	795.9 (TONS) 8198.0 (ACRES)	5511.2 (ACRES)				
4000LAND	581.7 3766.0	581.7 (TONS) 3766.0 (ACRES)	21080.5 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION	8694.6 7782.6	8616.5 7782.6	8616.5 7782.6	9312.7 7782.6	5095.2 7782.6	6849.4 7782.6	33572.6
PERCENT REDUCTION:	0.0	10.5	1.0	-7.1	0.0	41.4	21.2

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: YELLOW CREEK		BOTZUM, OH		COUNTY: 17 MEDINA, OHIO															
LAND USE	EXISTING POT. REDUCED SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS/ACRE)	EXISTING GROSS EROSION (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3d AREA (TONS/ACRE)	SOIL MGMT. 3d3d LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING (TONS/ACRE)	REDUCED (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3d AREA (TONS/ACRE)	SOIL MGMT. 3d3d LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING (TONS/ACRE)	REDUCED (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P. 3d AREA (TONS/ACRE)	SOIL MGMT. 3d3d LAND AREA (ACRES)
CROPLAND 1	5136.7	2104.7	4857.2	9551.1	4995.9	971.4	2602.1	328.2	505.2	18.0	971.4	2602.1	328.2	505.2	18.0	971.4	2602.1	328.2	505.2
CROPLAND 2	1768.1	1539.0	1672.5	1911.5	1728.3	334.5	896.0	482.2	344.5	4.7	334.5	896.0	482.2	344.5	4.7	334.5	896.0	482.2	344.5
CROPLAND 3	16.5	16.5	15.6	17.1	16.1	0.4	8.4	23.0	0.0	0.0	16.1	16.1	23.0	0.0	0.0	16.1	16.1	23.0	0.0
CROPLAND 4	17.8	17.8	16.8	19.2	17.3	17.8	17.8	23.0	0.0	0.0	17.3	17.3	23.0	0.0	0.0	17.3	17.3	23.0	0.0
CROPLAND 5	6937.1	3678.0	6562.1	7499.6	6749.6	1332.1	3520.3	1056.4	505.2	18.0	1332.1	3520.3	1056.4	505.2	18.0	1332.1	3520.3	1056.4	505.2
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRASSLAND AND PASTURE	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4	201.4
WOODLAND	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
PRIMARY TOTAL POTENTIAL GROSS EROSION																			
PERCENT REDUCTION:		0.0	45.2	5.2	-7.4	2.6	77.7	47.1	4835.3	1.3	2046.8	4835.3	1.3	47.1	4835.3	1.3	2046.8	4835.3	1.3

LAKE EPIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: YELLOW CREEK		COUNTY: 19 SUMMIT, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO Y. PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRIP (TONS/ACRE)	MAXIMUM REDUCTION (TONS/ACRE)	REDUCED VILLAGE: CHISEL 5-24 AREA (TONS/ACRE)	SOIL WENT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)		
1 CROPLAND 1	375.1 2.7	375.1 2.7	363.4 2.6	437.1 3.3	375.1 2.7	175.8 1.3	349.3 2.4	137.4	0.0		
2 CROPLAND 2	132.1 1.9	132.1 1.9	128.0 1.9	161.0 2.3	132.1 1.9	61.9 .9	139.2 1.3	68.3	0.0		
3 CROPLAND 3	507.2 2.5	507.2 2.5	491.4 2.4	614.1 3.0	507.2 2.5	237.7 1.1	515.1 2.3	286.7	0.0		
4 VINEYARDS AND ORCH.	0.0 0.00	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.00 (TONS/ACRE)	0.0 (TONS) 0.00 (TONS/ACRE)	0.0 (TONS) 0.0 (ACRES)	45.9 (ACRES)					
5 PASTURE	1591.3 9346.1 -17	1591.3 (TONS) 9346.1 (ACRES) -17 (TONS/ACRE)	1591.3 (TONS) 9346.1 (ACRES) -17 (TONS/ACRE)	1591.3 (TONS) 9346.1 (ACRES) -17 (TONS/ACRE)	665.9 (ACRES)						
6 WOODLAND	1778.0 4028.6 -44	1658.9 (TONS) 4028.6 (ACRES) -44 (TONS/ACRE)	1658.9 (TONS) 4028.6 (ACRES) -44 (TONS/ACRE)	1658.9 (TONS) 4028.6 (ACRES) -44 (TONS/ACRE)	1354.8 (ACRES)						
7 WETLANDS	4254.7 -3	4254.7 -3	4237.3 -3	4376.7 -3	4254.7 -3	3958.3 -3	4263.4 -3	10926.2	0.0		
8 PERCENT REDUCTIONS:	0.0	0.0	.4	-2.9	0.0	7.0	-2.2				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: YELLOW CREEK		BOTZUM, OH		COUNTY: 62 ALL IN BASIN																	
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)														
233PLAND 1	5599.8	2479.7	5220.5	6008.2	5371.0	1147.3	2903.0	665.3	585.2												
346	8.3	3.7	7.8	9.0	6.1	1.7	4.5	10.0													
230PLAND 2	1988.2	1671.2	1800.5	2072.5	1852.5	396.4	1039.2	551.1	344.5												
346	3.4	3.0	3.3	3.8	3.4	.7	1.9		4.7												
230PLAND 4	16.5	16.5	15.6	17.8	16.1	8.4	6.4	23.0	0.8												
346	.7	.7	.7	.8	.7	.4	.4		0.8												
233PLAND 5	17.8	17.8	16.8	19.2	17.3	17.8	17.1	23.0	0.0												
346	.8	.8	.7	.8	.8	.8	.3		0.0												
230PLAND	7444.3	4185.2	7053.4	8117.7	7256.9	1569.9	4039.4	1263.0													
346	5.9	3.3	5.6	6.4	5.7	1.2	3.2														
VINEYARDS AND ORCH.	8.0	0.0 (TONS)	4.0 (TONS)	68.9 (ACRES)																	
234SLAND AND PASTURE	1792.7	1792.7 (TONS)	1240.0 (ACRES)																		
346	10746.9	10746.9 (ACRES)	1240.0 (ACRES)																		
346	.17	.17 (TONS/ACRE)																			
400DLAND	1845.6	1734.5 (TONS)	2135.6 (ACRES)																		
346	4431.9	4431.9 (ACRES)																			
346	.42	.39 (TONS/ACRE)																			
346	12522.1	8839.7	12080.4	13283.0	12310.4	5884.7	8674.9	18577.4													
346	.7	.5	.7	.7	.7	.3	.5														
PERCENT REDUCTION:	8.0	29.4	3.5	-6.1	1.7	53.0	30.7														

COUNTRY: 19 CUYAHOGA, OHIO

MC 01385A3

DATE: 11/15/88

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIS: FURNACE RUN		EVERETT, OH		COUNTY: 19 SUMMIT, OH															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS)	LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)											
WOODLAND	445.1	317.5	431.2	542.5	445.1	208.7	114.9	68.9											
546	3.9	2.8	3.8	4.7	3.9	1.8	5.2	5.2											
WOODLAND	22.5	22.5	21.8	27.5	22.5	22.5	45.3	0.0											
546	.5	.5	.5	.6	.5	.5	.5	0.0											
WOODLAND	845.9	45.9	819.4	1030.3	845.9	396.5	23.0	23.0											
546	36.8	2.0	35.6	44.8	36.8	17.2	37.4	36.8											
WOODLAND	1333.5	385.9	1272.4	1600.9	1313.5	621.7	183.7	183.7											
546	7.2	2.1	6.9	8.7	7.2	3.4	7.5	7.5											
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0	0.0											
0.00	0.00	0.00 (TONS/ACRE)																	
GRASSLAND AND PASTURE	1815.6	1815.6 (TONS)	OTHER LAND USE AREA	574.1 (ACRES)	574.1 (ACRES)														
5189.7	5189.7 (TONS)	5189.7 (ACRES)																	
.35	.35 (TONS/ACRE)																		
WOODLAND	2543.9	2110.5 (TONS)	MISSING DATA	1010.4 (ACRES)	1010.4 (ACRES)														
4018.6	4018.6 (TONS)	4018.6 (ACRES)																	
.63	.63 (TONS/ACRE)																		
5444141 TOTAL POTENTIAL GROSS EROSION	6283.3	6237.8	6237.8	6601.6	6283.3	5523.7	10402.4	6305.7											
PERCENT REDUCTION:	0.0	16.4	.7	-5.1	0.0	12.1	-4.4	-4.4											

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LAME ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: PRANDYWINE CREEK										JULY 04										COUNTY: INDIANAPOLIS, IN									
LAND USE		EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)		LOSS TO FLOWING AND EXISTING ONLY (TONS)		SOIL SPRING PLOWING ONLY (TONS)		FALL PLOWING ONLY (TONS)		WINTER COVER CROP (TONS)		MAXIMUM TILLAGE (TONS)		REDUCED TILLAGE: CHISEL PLOW AREA (TONS)		SOIL MGMT. GROUP LAND AREA (ACRES)		EXISTING SOIL LOSS FACTOR (ACRES)											
CROPLAND		8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										
VINEYARDS AND ORCH.		0.0	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)										
GRASSLAND AND PASTURE		3.5	45.9	3.5 (TONS)	45.9 (ACRES)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)	0.08 (TONS/ACRE)										
WOODLAND		10.3	45.9	10.3 (TONS)	45.9 (ACRES)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)	0.22 (TONS/ACRE)										
SUMMARY TOTAL POTENTIAL GROSS EROSION		24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2										
PERCENT REDUCTION:		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0										

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 19 SUMMIT, OHIO									
JAITE, OH									
BASIN: GRANDVINE CREEK									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER PROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH GROUP LAND CHISEL PLOW AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)
1 CROPLAND	44.7	44.7	43.3	54.5	44.7	21.0	43.4	23.9	0.0
546	1.9	1.9	1.9	2.4	1.9	.9	2.0	0.0	0.0
2 CROPLAND	126.4	126.4	122.5	154.1	126.4	59.3	129.4	68.9	0.0
545	1.8	1.8	1.8	2.2	1.8	.9	1.9	0.0	0.0
3 CROPLAND	88.4	88.4	85.6	107.7	88.4	48.4	88.4	68.9	0.0
546	1.3	1.3	1.2	1.6	1.3	1.3	1.3	0.0	0.0
4 CROPLAND	259.5	259.5	251.4	316.3	259.5	168.7	262.2	168.3	0.0
546	1.6	1.6	1.5	2.0	1.6	1.0	1.5	0.0	0.0
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 CROPLAND	717.3	717.3	717.3	717.3	717.3	2470.4	2470.4	2470.4	0.0
AND PASTURE	6659.4	6659.4	6659.4	6659.4	6659.4	6659.4	6659.4	6659.4	0.0
546	.11	.11	.11	.11	.11	.11	.11	.11	.11
6 CROPLAND	1203.2	1122.4	1122.4	MISSING DATA	2401.6	2401.6	2401.6	2401.6	0.0
546	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	4615.7	0.0
546	.26	.26	.26	.26	.26	.26	.26	.26	.26
SUMMARY TOTAL POTENTIAL GROSS EROSION									
	2714.1	2714.1	2704.0	2784.4	2714.1	2601.0	2717.4	14237.5	0.0
	.2	.2	.2	.2	.2	.2	.2	.2	.2
PERCENT REDUCTION:									
	0.0	0.0	.4	-2.6	0.0	4.2	-.1	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BRANDYWINE CREEK		JAITÉ, OH		COUNTY: 62' ALL IN BASIN									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE (TONS/ACRE)	EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	JANUARY COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. SAVVY LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)				
CROPLAND 1	44.7	44.7	43.3	54.5	44.7	21.0	45.4	23.0	0.0				
SWG	1.9	1.9	1.9	2.4	1.9	.9	2.0		0.0				
CROPLAND 2	126.4	126.4	122.5	154.1	126.4	59.3	129.1	68.3	0.0				
SWG	1.8	1.8	1.8	2.2	1.8	.9	1.9		0.0				
CROPLAND 3	88.4	88.4	85.6	107.7	88.4	88.4	88.4	68.3	0.0				
SWG	1.3	1.3	1.2	1.6	1.3	1.3	1.3		0.0				
CROPLAND	259.5	259.5	251.4	316.3	259.5	168.7	262.2	160.8					
SWG	1.6	1.6	1.6	2.0	1.6	1.0	1.6						
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY		0.0 (ACRES)								
SWG	0.0	0.0 (ACRES)											
GRASSLAND AND PASTURE	728.8	728.8 (TONS)	OTHER LAND USE AREA		2916.4 (ACRES)								
SWG	6785.3	6785.3 (TONS)											
WOODLAND	1213.5	1132.8 (TONS)	MISSING DATA		2870.5 (ACRES)								
SWG	4661.6	4661.6 (ACRES)											
SUMMARY TOTAL POTENTIAL GROSS EROSION	2740.1	2740.1	2730.0	2811.0	2740.1	2626.7	2743.4	14398.2					
PERCENT REDUCTION:	0.0	0.0	.4	-2.6	0.0	4.1	-1.1						

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CHIPPEWA CREEK		PRECKWISVILLE, IN		COUNTY: INDIANAPOLIS, IN		ALL IN BASIN	
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION YILLAGE (TONS)	REDUCED YILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 2000 LAND (ACRES)	EXISTING SOIL LOSS > Y FACTOR (ACRES)
200PLAND 1	295.9	155.2	291.7	336.7	289.5	45.0	145.4
545	6.4	3.4	6.4	7.3	6.3	1.0	3.2
200PLAND 2	82.3	42.3	41.1	93.6	80.5	12.5	40.5
546	3.6	3.6	3.5	4.1	3.5	.5	1.4
200PLAND 3	191.8	191.8	189.0	214.2	187.6	191.8	137.9
545	1.4	1.4	1.4	1.5	1.4	1.4	1.4
200PLAND 4	1741.4	68.9	1716.2	1981.2	1783.6	265.0	854.1
546	75.7	3.0	74.6	86.1	74.1	11.5	37.3
200PLAND 5	2311.4	495.2	2278.0	2529.7	2261.2	514.3	1235.3
545	18.1	2.2	9.9	11.4	9.8	2.2	5.4
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)		
200PLAND 6	382.1	382.1 (TONS)	OTHER LAND	3513.4 (ACRES)			
546	1768.2	1768.2 (ACRES)	JSF AREA				
	.22	.22 (TONS/ACRE)					
200PLAND 7	2249.3	2249.3 (TONS)	MISSING DATA	2112.6 (ACRES)			
546	3766.0	3766.0 (ACRES)					
	.60	.60 (TONS/ACRE)					
3 YEARLY TOTAL POTENTIAL GROSS EROSION	6754.4	4276.6	6708.8	7149.4	6685.8	4298.7	5285.3
	.9	.5	.6	.9	.8	.5	.7
PERCENT REDUCTION:	0.0	36.7	.7	-6.4	1.0	36.4	21.4

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: TIMKERS CREEK		BEDFORD, OH		COUNTY: 18 CUYAHOGA, OHIO															
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO T. ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL REENT. STRIP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
CROPLAND 1	983.2	413.3	690.1	1027.5	883.6	137.4	945.1	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6
346	7.9	3.6	7.8	9.0	7.7	1.2	3.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
CROPLAND 2	223.3	223.3	220.1	254.0	218.4	34.0	110.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0	114.0
345	1.9	1.9	1.9	2.2	1.9	.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
CROPLAND 3	862.8	862.8	850.3	941.6	844.0	862.8	862.8	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4
346	2.2	2.2	2.2	2.5	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
CROPLAND 4	1989.3	1499.4	1960.5	2253.1	1946.0	1030.2	1012.2	520.3	520.3	520.3	520.3	520.3	520.3	520.3	520.3	520.3	520.3	520.3	520.3
346	3.2	2.4	3.2	3.7	3.1	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	275.6 (ACRES)														
346	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)															
346	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)															
GRASSLAND AND PASTURE	1278.0	1278.0 (TONS)	1278.0 (TONS)	1278.0 (TONS)	3444.5 (ACRES)														
346	3329.7	3329.7 (ACRES)	3329.7 (ACRES)	3329.7 (ACRES)															
346	.38	.38 (TONS/ACRE)	.38 (TONS/ACRE)	.38 (TONS/ACRE)															
WOODLAND	1947.2	1947.2 (TONS)	1947.2 (TONS)	1947.2 (TONS)	12790.6 (ACRES)														
346	5626.0	5626.0 (ACRES)	5626.0 (ACRES)	5626.0 (ACRES)															
346	.35	.35 (TONS/ACRE)	.35 (TONS/ACRE)	.35 (TONS/ACRE)															
SUMMARY TOTAL POTENTIAL GROSS EROSION	12179.7	11035.4	12112.4	12819.2	12078.6	9948.8	10843.1	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3	22366.3
PERCENT REDUCTION:	0.0	9.4	.6	-5.3	.8	18.3	11.3												

COUNTY: 19 SUMMIT. 0410

BENEFORD, OH

ALSO: TINKER CREEK

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LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: TIMBERS CREEK		COUNTY: 21 GAUGES: OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO F AND EXISTING ONLY (TONS/ACRE)	SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)		
TOPLAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
GRASSLAND AND PASTURE	3.4	91.9	3.4	91.9	3.4	60.9	60.9	60.9	60.9		
WOODLAND	12.5	160.7	12.5	160.7	12.5	148.2	148.2	148.2	148.2		
SUMMARY TOTAL POTENTIAL GROSS EROSION											
	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
PERCENT REDUCTION:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

[illegible]

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BIG CREEK		CLEVELAND, OH		COUNTY: 19 CUYAHOGA, OHIO		ALL IN BASIN	
LAND USE	EXISTING POT. REDUCED GROSS LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRDP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: MISCEL. P. & J. AREA (TONS/ACRE)	SOIL MGMT. TILLAGE: TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS > T. FACTOR (TONS/ACRE)
CROPLAND	89.3 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0
GRASSLAND AND PASTURE	522.2 1868.0 .28	522.2 (TONS) 1868.0 (ACRES) .28 (TONS/ACRE)	2112.6 (ACRES)	2112.6 (ACRES)	2112.6 (ACRES)	2112.6 (ACRES)	2112.6 (ACRES)
WOODLAND	895.3 1803.0 .45	895.3 (TONS) 1803.0 (ACRES) .45 (TONS/ACRE)	MISSING DATA	18164.1 (ACRES)	18164.1 (ACRES)	18164.1 (ACRES)	18164.1 (ACRES)
SUMMARY TOTAL POTENTIAL GROSS EMISSION							
	8003.7 .4	8003.7 .4	8003.7 .4	8003.7 .4	8003.7 .4	8003.7 .4	21307.1
PERCENT REDUCTION:							
	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: EUCLID CREEK		EUCLID OH		COUNTY: IN CUYAHOGA, OHIO			
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION FILLAGE (TONS/ACRE)	REDUCED FILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WENT. GROUP LAND AREA (ACRES)
30PLAND 3	60.9	60.9	67.9	67.4	68.9	68.9	91.9
345	.7	.7	.7	.9	.7	.7	0.0
30PLAND	60.9	60.9	67.9	67.4	68.9	68.9	91.9
345	.7	.7	.7	.9	.7	.7	0.0
31VEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)
32BRASSLAND AND PASTURE	625.3	625.3 (TONS)	378.4 (TSE AREA)	2434.1 (ACRES)	2434.1 (ACRES)	2434.1 (ACRES)	2434.1 (ACRES)
3300LAND	471.5	471.5 (TONS)	4155.2 (MISSING DATA)	7922.4 (ACRES)	7922.4 (ACRES)	7922.4 (ACRES)	7922.4 (ACRES)
345	1760.2	1760.2 (ACRES)	27 (TONS/ACRE)	27 (TONS/ACRE)	27 (TONS/ACRE)	27 (TONS/ACRE)	27 (TONS/ACRE)
35JANUARY TOTAL POTENTIAL GROSS EROSION	4488.9	4488.9	4405.2	4444.9	4403.3	4403.3	10769.3
36PERCENT REDUCTION:	0.0	0.0	.1	-.8	.1	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: EUCLID CREEK		EUCLID, OH		COUNTY: CUYAHOGA		LAKE, OHIO		
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
2 CROPLAND	145.1	137.8	143.4	163.4	139.2	62.4	45.9	45.9
546	3.2	3.0	3.1	3.4	3.0	1.4	3.2	3.2
3 CROPLAND	608.8	442.2	601.7	647.2	543.9	608.8	150.7	160.7
546	3.8	3.0	3.7	4.3	3.6	3.4	3.8	3.8
5 CROPLAND	18.6	18.4	18.4	21.0	17.8	18.6	23.8	8.0
546	.8	.8	.8	.9	.8	.8	.5	8.0
10 CROPLAND	772.5	638.4	763.5	872.0	740.9	645.2	229.5	229.5
546	3.4	2.8	3.3	3.4	3.2	2.8	3.0	3.0
11 VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)			
546	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)				
12 GRASSLAND AND PASTURE	6.7	6.7 (TONS)	6.7 (TONS)	6.7 (TONS)	597.1 (ACRES)			
546	119.8	119.8 (ACRES)	119.8 (ACRES)	119.8 (ACRES)	119.8 (ACRES)			
13 WOODLAND	48.8	48.8 (TONS)	48.8 (TONS)	48.8 (TONS)	48.8 (ACRES)			
546	505.2	505.2 (ACRES)	505.2 (ACRES)	505.2 (ACRES)	505.2 (ACRES)			
14 SUMMARY TOTAL POTENTIAL GROSS EROSION	917.6	769.2	907.6	1027.8	842.5	776.5	826.4	826.4
PERCENT REDUCTION:	0.0	16.2	1.1	-12.0	3.8	15.4	9.9	9.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 62 ALL IN BASIN

EUCLEID, OH

345IV: EUCLEID CREEK

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)
230PLAND 2	145.1	137.8	143.4	139.2	17.8	62.8	65.3	45.9
346	3.2	3.8	3.1	3.0	.4	1.4	3.2	3.2
230PLAND 3	677.8	551.1	669.6	651.3	677.8	677.3	232.6	160.7
346	2.7	2.2	2.7	2.6	2.7	2.7	3.6	3.6
230PLAND 5	18.6	18.6	18.4	17.8	18.6	18.5	23.0	0.8
346	.8	.8	.8	.9	.8	.8	0.8	0.8
230PLAND	841.5	787.5	831.4	808.3	719.2	759.2	321.3	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (ACRES)			
BRASSLAND AND PASTURE	632.8	632.8 (TONS)	1182.2 (ACRES)	3031.2 (ACRES)				
WOODLAND	528.2	528.2 (TONS)	MISSING DATA	801.2 (ACRES)				
	2273.4	2273.4 (ACRES)						
	.23	.23 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	6315.4	5891.0	6283.4	6210.3	5912.2	6059.7	11711.3	
PERCENT REDUCTION:	8.0	6.7	.5	-5.5	1.7	6.4	0.1	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CHAGIN		COUNTY: IN CUYAHOGA, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MINIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)			
1. CROPLAND	1309.5	621.2	1290.5	1489.8	1281.0	199.3	643.3	166.7	137.8	9.0	
346	8.1	3.9	8.0	9.3	8.0	1.2	8.0	8.0	8.0	8.0	
2. CROPLAND	365.1	365.1	359.8	415.4	357.2	53.6	179.3	229.5	0.0	0.0	
346	1.6	1.6	1.6	1.6	1.6	.2	.4	.4	.4	.4	
3. CROPLAND	877.7	877.7	865.0	998.5	858.6	477.7	877.7	436.3	0.0	0.0	
346	2.0	2.0	2.0	2.3	2.0	2.0	2.0	2.0	2.0	2.0	
5. CROPLAND	52.1	52.1	51.3	59.3	51.0	52.1	52.1	160.7	0.0	0.0	
346	.3	.3	.3	.4	.3	.3	.3	.3	.3	.3	
6. CROPLAND	2684.4	1922.1	2566.6	2963.0	2587.8	1184.7	1753.8	987.3	1.3	1.3	
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	252.6	(ACRES)					
7. PASTURE AND PASTURE	969.1	969.1	969.1	969.1	9116.5	(ACRES)					
8. PASTURE	3766.0	3766.0	3766.0	3766.0	9116.5	(ACRES)					
9. PASTURE	969.1	969.1	969.1	969.1	9116.5	(ACRES)					
10. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
11. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
12. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
13. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
14. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
15. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
16. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
17. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
18. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
19. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
20. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
21. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
22. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
23. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
24. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
25. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
26. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
27. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
28. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
29. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
30. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
31. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
32. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
33. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
34. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
35. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
36. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
37. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
38. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
39. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
40. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
41. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
42. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
43. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
44. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
45. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
46. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
47. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
48. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
49. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
50. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
51. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
52. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
53. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
54. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
55. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
56. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
57. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
58. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
59. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
60. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
61. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
62. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
63. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
64. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
65. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
66. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
67. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
68. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
69. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
70. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
71. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
72. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
73. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
74. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
75. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
76. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
77. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
78. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
79. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
80. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
81. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
82. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
83. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
84. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
85. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
86. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
87. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
88. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
89. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
90. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
91. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
92. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
93. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
94. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
95. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
96. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
97. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
98. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
99. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
100. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
101. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
102. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
103. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
104. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
105. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
106. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
107. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
108. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
109. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
110. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
111. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
112. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					
113. PASTURE	9231.3	9231.3	9231.3	9231.3	11986.9	(ACRES)					</

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CHAGAIN		COUNTY: 20 LAKE, ONT									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	SOIL SPRING LOSS TO TILLAGE ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (ACRES)	SOIL REENT. AREA (ACRES)	EXISTING SILENT LOSS FACTOR (ACRES)			
1. CROPLAND	6242.6	2625.2	6169.6	7345.7	5987.1	766.6	2781.3	1149.2	328.2	9.8	
2. CROPLAND	2183.9	1555.9	2079.3	2374.6	2417.6	254.4	910.3	328.2	436.3	4.3	
3. CROPLAND	4435.8	3972.1	4363.9	5806.5	4254.2	4435.8	4435.3	1469.7	1248.0	1.4	
4. CROPLAND	198.3	198.3	196.0	223.8	190.2	198.3	198.3	436.3	0.0	0.0	
5. CROPLAND	19918.8	711.9	19677.1	22471.5	19094.9	2445.1	8616.3	229.6	229.6	86.7	
6. CROPLAND	32098.6	9063.4	32505.9	37122.1	31544.2	4104.2	16862.1	3412.8			
7. VETARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8. PASTURE	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8			
9. PASTURE	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5	3467.5			
10. PASTURE	8656.6	8656.6	8656.6	8656.6	8656.6	8656.6	8656.6	8656.6			
11. PASTURE	11160.2	11160.2	11160.2	11160.2	11160.2	11160.2	11160.2	11160.2			
12. PASTURE	78	78	78	78	78	78	78	78			
13. PASTURE	44895.7	19549.4	44895.7	44895.7	44895.7	44895.7	44895.7	44895.7			
14. PASTURE	2.3	1.3	2.3	2.3	2.3	2.3	2.3	2.3			
15. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
16. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
17. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
18. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
19. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
20. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
21. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
22. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
23. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
24. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
25. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
26. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
27. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
28. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
29. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
30. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
31. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
32. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
33. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
34. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
35. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
36. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
37. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
38. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
39. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
40. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
41. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
42. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
43. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
44. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
45. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
46. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
47. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
48. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
49. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
50. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
51. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
52. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
53. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
54. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
55. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
56. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
57. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
58. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
59. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
60. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
61. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
62. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
63. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
64. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
65. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
66. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
67. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
68. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
69. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
70. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
71. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
72. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
73. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
74. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
75. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
76. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
77. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
78. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
79. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
80. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
81. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
82. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
83. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
84. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
85. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
86. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
87. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
88. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
89. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
90. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
91. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
92. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
93. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
94. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
95. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
96. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
97. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
98. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
99. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			
100. PASTURE	0.8	56.4	0.8	-10.0	3.2	54.6	37.3	37.3			

LAKE ERIE WASTE/WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CHAGIN		WILLOUGHBY, OH		COUNTY: 21 CUYA, OHIO			
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO FLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL NGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
210PLAND 1	726.9	711.1	853.4	726.9	331.9	298.5	42.9
546	2.4	2.4	2.2	2.4	1.1	2.3	2.4
210PLAND 2	649.2	674.2	809.0	649.2	314.6	543.0	0.0
546	1.1	1.1	1.3	1.1	.5	1.3	0.0
210PLAND 3	1027.5	1005.2	1206.2	1027.5	1027.5	1171.1	0.8
546	.9	.9	1.0	.9	.9	.9	9.8
210PLAND 5	4.2	4.1	4.9	4.2	4.2	23.0	0.0
546	.2	.2	.2	.2	.2	.2	0.0
210PLAND 10	297.0	251.4	301.7	257.0	117.3	23.0	23.0
546	11.2	10.9	13.1	11.2	5.1	30.7	11.2
210PLAND	2704.8	2646.0	3175.2	2704.8	1795.5	2138.5	
	1.3	1.2	1.5	1.3	.8	1.2	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	1928.9 (ACRES)				
	0.0	0.0 (ACRES)					
	0.00	0.00 (TONS/ACRF)					
313ASSLAND AND PASTURE	2461.4	2461.4 (TONS)	14903.3 (ACRES)				
	21608.6	21608.6 (ACRES)					
	.11	.11 (TONS/ACRE)					
WOODLAND	12342.1	12342.1 (TONS)	6420.1 (ACRES)				
	34376.3	34376.3 (ACRES)					
	.36	.36 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	19562.0	19496.3	20897.6	19562.0	16546.0	64963.5	
	.3	.3	.3	.3	.3	.3	
PERCENT REDUCTION:	0.0	1.2	-2.7	0.0	5.2	.4	

LAK ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CHAGRIN		COUNTY: 22 PORTAGE, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. REDUCE LOSS TO PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND TILLAGE PLOW AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)			
1 CROPLAND	645.7	286.7	636.7	712.9	645.7	130.0	68.9	68.9			
346	9.4	3.0	9.2	18.3	9.4	1.9	4.3	3.4			
2 CROPLAND	316.4	312.0	312.0	316.4	316.4	316.4	114.3	0.0			
5 SWG	2.8	2.8	2.7	3.0	2.8	2.8	2.3	0.0			
3 CROPLAND	13.1	13.1	12.9	14.5	13.1	13.1	23.0	0.0			
5 SWG	.6	.6	.6	.6	.6	.6	.5	0.0			
1 CROPLAND	975.2	536.2	961.6	1076.8	975.2	459.5	670.5	206.7			
477	4.7	2.6	4.7	5.2	4.7	2.2	3.2				
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	23.0 (ACRES)						
6131.2	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)							
0.08	0.08 (TONS/ACRE)										
GRASSLAND AND PASTURE	641.8	641.8 (TONS)	6131.2 (ACRES)	1010.4 (ACRES)							
6131.2	6131.2	6131.2 (ACRES)	1010.4 (ACRES)								
.10	.10 (TONS/ACRE)										
WOODLAND	988.8	988.8 (TONS)	413.4 (ACRES)								
4546.8	4546.8	4546.8 (ACRES)									
.22	.22 (TONS/ACRE)										
3 SUMMARY TOTAL POTENTIAL GROSS EROSION	2694.8	2259.1	2680.7	2800.3	2694.8	2153.5	2373.3	11298.1			
.2	.2	.2	.2	.2	.2	.2	.2				
PERCENT REDUCTION:	0.0	16.9	.5	-3.9	0.0	19.9	11.7				

LAKE EPC WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CHAGRIN		WILLOUGHBY, OH		COUNTY: 42 ALL IN BASIN			
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CRP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE CHISEL - 3/4 AREA (TONS)	SOIL MGMT. 300P LAND AREA (ACRES)	EXISTING SOIL LOSS BY FACTOR (ACRES)
CROPLAND 1	8924.7	4155.3	8807.9	10101.8	1427.8	1722.3	803.7
SWG	5.2	2.5	5.1	5.9	.8	2.5	3.0
CROPLAND 2	3158.2	2610.2	3111.3	3599.0	628.5	1469.7	436.3
SWG	2.1	1.9	2.1	2.4	.4	1.2	4.3
CROPLAND 3	6657.4	6103.7	6566.1	7350.6	6657.4	3191.3	1248.0
SWG	2.1	1.9	2.1	2.4	2.1	2.1	3.4
CROPLAND 5	267.7	267.7	264.3	302.5	267.7	643.0	0.0
SWG	.4	.4	.4	.5	.4	.4	0.0
CROPLAND 10	20167.0	780.8	19928.5	22773.2	2362.4	232.6	232.6
SWG	79.8	3.1	78.9	90.2	10.1	33.1	79.8
CROPLAND	39175.0	14008.3	30600.1	44337.1	11503.8	21919.3	7279.5
	5.4	2.0	5.3	6.1	1.6	3.0	
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	AREA ONLY	2204.5 (ACRES)			
GRASSLAND AND PASTURE	4788.2 36385.2	4788.2 (TONS) 36973.3 (ACRES)	OTHER LAND USE AREA	29599.9 (ACRES)			
	.13	.14 (TONS/ACRE)					
WOODLAND	26691.5	26691.5 (TONS)	MISSING DATA	22242.6 (ACRES)			
	60967.9	59314.6 (ACRES)					
	.44	.45 (TONS/ACRE)					
3/YEARLY TOTAL POTENTIAL GROSS EROSION	85685.8	55175.8	85085.6	91946.1	52176.4	64759.1	126795.2
	.7	.4	.7	.7	.4	.3	
PERCENT REDUCTION:	8.8	39.5	.7	-7.3	2.0	39.1	24.4

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: GRAND		COUNTY: 20 LAKE, OHIO									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION YILLAGE (TONS/ACRE)	REDUCED YILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. 3400P LAND AREA (ACRES)	EXISTING SOIL LOSS > Y FACTOR (ACRES)			
200PLAND 1	17319.3	6513.3	17111.8	19591.8	9.1	7.7	2126.3	7492.7	2158.6	1722.3	
200PLAND 2	24756.8	23351.4	24467.3	23743.4	3.3	2.8	3040.3	10713.5	9127.6	7382.4	
200PLAND 3	2244.6	2244.6	2218.3	2533.4	1.6	1.5	2244.6	2244.6	1423.7	0.0	
200PLAND 4	125.6	125.6	124.1	141.8	0.6	0.7	125.6	125.6	206.7	0.0	
200PLAND 5	15184.9	482.2	14928.3	17048.3	106.1	90.1	1855.0	6535.5	160.7	140.7	
200PLAND 6	59546.2	32717.1	58849.8	67207.2	4.8	5.4	931.8	27113.8	12377.3	91.0	
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	591.1 (ACRES)							
3400PLAND AND PASTURE	2806.6	2806.6 (TONS)	OTHER LAND USE AREA	6406.8 (ACRES)							
4000PLAND	10011.9	10011.9 (TONS)	MISSING DATA	3995.0 (ACRES)							
SUMMARY TOTAL POTENTIAL GROSS EROSION											
77978.1 48739.7 77211.4 86316.8 75314.4 23326.6 42634.2 49536.6											
PERCENT REDUCTION: 0.0 37.5 1.0 -10.7 3.4 70.1 45.3											

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 21 GEauga, OHIO

PAINESVILLE, OH

BASIN: GRAND

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FILL (TONS/ACRE)	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FILL (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. 3030 LAND (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
346 CROPLAND	25.2	1.1	25.2	1.1	29.6	25.2	25.2	25.2	23.0	0.0
345 CROPLAND	5.0	0.2	5.0	0.2	5.9	5.0	5.0	5.0	23.0	0.0
347 CROPLAND	30.2	0.7	30.2	0.7	35.5	30.2	30.2	30.2	46.3	0.0
348 VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	60.9	0.0	0.0	0.0
349 GRASSLAND AND PASTURE	213.5	1607.4	213.5	1607.4	298.5	298.5	298.5	298.5	0.0	0.0
350 WOODLAND	1908.9	3123.0	1908.9	3123.0	77386.7	77386.7	77386.7	77386.7	0.0	0.0
351 JANUARY TOTAL POTENTIAL GROSS EROSION	37020.8	37020.8	37020.8	37020.8	37020.8	37020.8	37020.8	37020.8	82163.1	0.0
PERCENT REDUCTION:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: GRANO		PAINESVILLE, OH		COUNTY: 22 PORTAGE, OHIO		U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT	
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOUING ONLY (TONS) (TONS/ACRE)	FALL PLOUING ONLY (TONS) (TONS/ACRE)	WINTER COVER CROP (TONS) (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOU ATER (TONS) (TONS/ACRE)	SOIL MOIST. STOR. LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE)
CRAPLAND	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0
VINEYARDS AND ORCH.	0.0 0.0	0.0 (TONS) 0.0 (ACRES)	0.0 (TONS) 0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)		
GRASSLAND AND PASTURE	142.8 1308.9 .11	142.8 (TONS) 1308.9 (ACRES) .11 (TONS/ACRE)	OTHER LAND USE AREA	114.8 (ACRES)			
WOODLAND	63.6 482.2 .13	63.6 (TONS) 482.2 (ACRES) .13 (TONS/ACRE)	MISSING DATA	23.0 (ACRES)			
JANUARY TOTAL POTENTIAL GROSS EROSION							
	289.1	289.1	289.1	289.1	289.1	1814.1	
PERCENT REDUCTION:	0.0	0.0	0.0	0.0	0.0	0.0	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: GRAND		PAINESVILLE, OH		COUNTY: 24 ASHTABULA, OHIO		U.S. ARMY CORPS OF ENGINEERS: BUFFALO DISTRICT	
LAND USE	EXISTING POTENTIAL SOIL SPRING LOSS TO TILLAGE ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOUGH (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE)
1 CROPLAND	3544.4	3544.4	3544.4	3544.4	3138.2	2089.7	0.0
2 CROPLAND	57916.5	53475.1	56951.3	69499.8	57916.5	35111.1	2905.2
3 CROPLAND	5053.5	5053.5	4969.3	6064.2	5053.5	4822.3	0.0
4 CROPLAND	16399.1	16399.1	16125.8	19578.2	16399.1	49646.7	0.0
5 CROPLAND	82913.5	78472.1	81551.7	99496.2	82913.5	91370.0	0.0
VINEYARDS AND ORCH.	5631.7	4344.4 (TONS)	JATER AREA ONLY	2490.1 (ACRES)			
2 PASTURE	1446.5	1446.5 (TONS)	JATER AREA ONLY	11091.3 (ACRES)			
WOODLAND	4961.8	4961.8 (TONS)	MISSING DATA	99816.6 (ACRES)			
SUMMARY TOTAL POTENTIAL GROSS EROSION							
	140072.5	137347.8	141980.3	169186.5	144072.5	133215.9	293972.2
PERCENT REDUCTIONS:							
	0.0	4.7	1.5	-17.4	0.0	7.5	

**LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS**

30310: ASHTABULA RIVER ASHTABULA, OH COUNTY: 24 ASHTABULA, OHIO

[illegible]

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: ASHTABULA RIVER		ASHTABULA, OH		COUNTY: 26 ERIC, PENNSYLVANIA															
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOD AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS P FACTOR (ACRES)	EXISTING SOIL LOSS P FACTOR (TONS/ACRE)	EXISTING SOIL LOSS P FACTOR (ACRES)	EXISTING SOIL LOSS P FACTOR (TONS/ACRE)	EXISTING SOIL LOSS P FACTOR (ACRES)	EXISTING SOIL LOSS P FACTOR (TONS/ACRE)	EXISTING SOIL LOSS P FACTOR (ACRES)	EXISTING SOIL LOSS P FACTOR (TONS/ACRE)	EXISTING SOIL LOSS P FACTOR (ACRES)	EXISTING SOIL LOSS P FACTOR (TONS/ACRE)	EXISTING SOIL LOSS P FACTOR (ACRES)	EXISTING SOIL LOSS P FACTOR (TONS/ACRE)
1. CROPLAND 1	159.9	159.9	154.5	182.3	158.2	34.4	92.9	79.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. CROPLAND 2	192.7	1186.1	1930.2	2248.4	1951.5	424.2	1145.4	395.4	595.4	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
3. CROPLAND 3	3712.1	3712.1	3632.3	4231.0	3672.2	3712.1	3712.1	1383.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4. CROPLAND 4	175.1	175.1	171.3	199.5	173.2	101.7	101.7	197.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. CROPLAND 5	27.0	27.0	26.4	30.4	26.7	27.0	27.0	39.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. CROPLAND 6	646.8	5268.2	5916.7	6492.1	5981.4	4299.4	5079.1	2095.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. VINEYARDS AND ORCH.	299.1	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)	226.8 (TONS)
8. BRASSLAND AND PASTURE	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7	197.7
9. WOODLAND	299.1	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)	299.1 (TONS)
10. SUMMARY TOTAL POTENTIAL GROSS FRICTION	6588.5	5671.9	6524.4	7503.4	6593.5	4911.1	5690.4	4981.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT REDUCTIONS:	0.0	11.4	2.0	-12.7	1.0	26.2	10.3												

LAKE ERIE WASTEWATER MANAGEMENT STUDY
U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
AND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 27 CRAWFORD, PENNSYLVANIA

ASHTAHLA, NM

CAST: ASHTABULA RIVER

LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO EXISTING AND EXISTING ONLY (TONS)	SOIL SPRING LOSS TO EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL (TONS/ACRE)	SOIL MGMT. STRIP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0
5	.6	.6	.6	.6	.6	.6	.6	.6	0.0
WOODLAND	51.2	51.2	50.0	59.6	51.2	51.2	51.2	79.1	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: ASHTABULA RIVER		ASHTABULA, OH		COUNTY: 62 ALL IN BASIN		EXISTING		REDUCED		SOIL WGT.	
LAND USE	EXISTING POTENTIAL LOSS TO SPRING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	EXISTING SOIL WGT. (ACRES)	REDUCED TILLAGE (TONS/ACRE)
1 CROPLAND 1	2619.2	2513.2	2579.8	3133.4	2617.5	1018.1	2265.2	1296.1	168.7	2381.3	168.7
2 CROPLAND 2	31154.8	27011.9	30626.3	37267.3	31133.6	12097.1	26923.9	15364.6	4.0	2381.3	4.0
3 CROPLAND 3	4877.2	4877.2	3991.3	4069.1	4037.3	4077.2	4077.2	2279.4	0.0	2381.3	0.0
4 CROPLAND 4	175.1	175.1	171.3	199.6	173.2	101.7	101.7	197.7	0.0	2381.3	0.0
5 CROPLAND 5	5270.7	5270.7	5162.3	6321.3	5270.4	5270.7	5270.7	16878.2	0.0	2381.3	0.0
6 CROPLAND 6	43297.8	39048.1	42545.7	51590.4	43232.0	22564.8	38637.3	35816.8	1.1	2381.3	1.1
7 VINEYARDS AND ORCH.	571.5	530.3 (TONS)	571.5	571.5	515.4 (ACRES)	515.4 (ACRES)	515.4 (ACRES)	515.4 (ACRES)	515.4 (ACRES)	515.4 (ACRES)	515.4 (ACRES)
8 PASTURE AND PASTURE	11955.8	666.8 (TONS)	11955.8 (ACRES)	11955.8 (ACRES)	6531.7 (ACRES)	6531.7 (ACRES)	6531.7 (ACRES)	6531.7 (ACRES)	6531.7 (ACRES)	6531.7 (ACRES)	6531.7 (ACRES)
9 WOODLAND	2395.1	2395.1 (TONS)	2395.1 (ACRES)	2395.1 (ACRES)	4340.1 (ACRES)	4340.1 (ACRES)	4340.1 (ACRES)	4340.1 (ACRES)	4340.1 (ACRES)	4340.1 (ACRES)	4340.1 (ACRES)
10 SIGNATURE TOTAL POTENTIAL GROSS EROSION	49618.3	49618.3	49618.3	49618.3	49618.3	49618.3	49618.3	49618.3	49618.3	49618.3	49618.3
PERCENT REDUCTION:	6.8	9.1	1.6	-17.7	.1	44.2	3.9	3.9	3.9	3.9	3.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

333IV: WUBRAD RUN		ASHTABULA, OH		COUNTY: 24 ASHTABULA, OHIO		ALL IN BASIN	
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T PLOUING AND EXISTING ONLY (TONS/ACRE)	FALL PLOUING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL WGT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
1	207.5	204.1	249.1	207.5	183.3	91.3	0.0
546	2.3	2.2	2.7	2.3	2.0		0.0
2	1147.4	1128.3	1376.9	1147.4	1013.5	528.2	114.8
546	2.2	2.1	2.6	2.2	1.9		3.0
5	25.4	24.9	30.4	25.4	25.4	91.3	0.0
545	.3	.3	.3	.3	.3		0.0
130PLAND	1388.3	1175.3	1357.3	1380.3	1222.3	712.0	
1.9	1.7	1.9	2.3	1.9	1.7		
VINEYARDS AND ORCH.	138.4	45.9 (TONS)	JATFR AREA ONLY	0.0 (ACRES)			
5.67	23.0 (ACRES)	2.00 (TONS/ACRE)					
31ASSLAND AND PASTURE	86.7	86.7 (TONS)	OTHER LAND USE AREA	3651.2 (ACRES)			
1788.2	1768.2 (ACRES)						
.05	.05 (TONS/ACRE)						
400DLAND	167.6	167.6 (TONS)	MISSING DATA	1745.2 (ACRES)			
1446.7	1446.7 (ACRES)						
.12	.12 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	2544.8	2511.7	2942.9	2544.8	2317.3	5695.1	
.4	.4	.4	.5	.4	.2	.4	
PERCENT REDUCTION:	0.0	11.6	-15.6	0.0	46.1	9.3	

LANE ERIC WASTEWATER MANAGEMENT STUDY
 LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CONNEAUT CREEK		CONNEAUT, OH		COUNTY: 24 ASHTABULA, OHIO									
LAND USE	EXISTING POT. REDUCE GROSS EROSION (TONS/ACRE)	SOIL TO F AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS/ACRE)	SOIL WGT. SOIL LOSS > 1 FACTOR (TONS/ACRE)						
230PLAND 1	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7	1184.7
346	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
240PLAND 2	9255.9	6741.7	9101.6	11107.1	9255.9	3702.4	8176.0	3988.3	1423.7	1423.7	1423.7	1423.7	1423.7
346	2.4	1.7	2.3	2.9	2.4	1.0	2.1	3.0	3.0	3.0	3.0	3.0	3.0
230PLAND 3	141.1	141.1	138.7	159.3	141.1	141.1	141.1	321.3	141.1	141.1	141.1	141.1	141.1
346	.4	.4	.4	.5	.4	.4	.4	.4	.4	.4	.4	.4	.4
240PLAND 5	163.7	163.7	161.0	196.4	163.7	163.7	163.7	551.1	163.7	163.7	163.7	163.7	163.7
346	.3	.3	.3	.4	.3	.3	.3	.3	.3	.3	.3	.3	.3
240PLAND	18745.4	9231.2	10566.2	12894.4	10745.4	1641.1	9527.3	3955.5	1641.1	1641.1	1641.1	1641.1	1641.1
VINEYARDS AND ORCH.	411.7	315.8 (TONS)	JATER AREA ONLY	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)	298.5 (ACRES)
240PLAND	367.4	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)	367.4 (ACRES)
240PLAND	1.12	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)	.86 (TONS/ACRE)
240PLAND	273.2	273.2 (TONS)	OTHER LAND	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)	2732.7 (ACRES)
AND PASTURE	3169.8	3169.8 (ACRES)	JSE AREA	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)	3169.8 (ACRES)
400PLAND	878.6	878.6 (TONS)	MISSING DATA	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)	3834.9 (ACRES)
400PLAND	7849.8	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)	7849.8 (ACRES)
400PLAND	.12	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)	.12 (TONS/ACRE)
344ARY TOTAL POTENTIAL GROSS EROSION	15178.0	14949.0	17820.2	15178.0	14949.0	15178.0	13687.3	27276.7	15178.0	15178.0	15178.0	15178.0	15178.0
PERCENT REDUCTIONS:	0.0	20.4	1.5	-17.5	0.0	50.9	9.3	9.3	50.9	50.9	50.9	50.9	50.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

343IN: CONNEAUT CREEK CONNEAUT, 34 COUNTY: 25 ERIE, PENNSYLVANIA

LAND USE	EXISTING GROSS EROSION (TONS)	POTENTIAL GROSS EROSION (TONS)	LOSS TO PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM TILLAGE REDUCTION (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (ACRES)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
343 1	6231.6	5435.3	6097.6	7102.7	6164.6	1340.1	3619.4	1418.7	1709.1
343 2	23210.6	15711.0	22711.4	26455.1	22961.0	4991.5	13077.1	5335.1	5055.1
343 3	17788.3	12809.9	17405.7	20274.2	17597.0	17788.3	17788.3	4270.0	4270.0
343 4	615.2	615.2	602.0	701.2	608.6	357.2	357.2	711.7	0.0
343 5	330.5	330.5	323.4	376.7	326.9	330.5	330.5	790.7	0.0
343 10	8184.0	1621.0	16.9	9328.0	8096.0	1760.0	4752.0	474.4	474.4
343 10	17.3	3.4	16.9	19.7	17.1	3.7	10.0	17.3	17.3
343 10	56368.2	37522.9	35148.1	64238.5	55754.1	25317.6	4323.3	13500.5	13500.5
343 10	4.1	2.8	4.1	4.7	4.1	2.0	3.0	3.0	3.0
343 10	619.5	497.5 (TONS)	497.5 (TONS)	497.5 (TONS)	497.5 (TONS)	497.5 (TONS)	497.5 (TONS)	497.5 (TONS)	497.5 (TONS)
343 10	158.1	158.2 (ACRES)	158.2 (ACRES)	158.2 (ACRES)	158.2 (ACRES)	158.2 (ACRES)	158.2 (ACRES)	158.2 (ACRES)	158.2 (ACRES)
343 10	3.92	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)	2.89 (TONS/ACRE)
343 10	170.8	170.8 (TONS)	170.8 (TONS)	170.8 (TONS)	170.8 (TONS)	170.8 (TONS)	170.8 (TONS)	170.8 (TONS)	170.8 (TONS)
343 10	1225.6	1225.6 (ACRES)	1225.6 (ACRES)	1225.6 (ACRES)	1225.6 (ACRES)	1225.6 (ACRES)	1225.6 (ACRES)	1225.6 (ACRES)	1225.6 (ACRES)
343 10	.14	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)	.14 (TONS/ACRE)
343 10	3282.3	3282.3 (TONS)	3282.3 (TONS)	3282.3 (TONS)	3282.3 (TONS)	3282.3 (TONS)	3282.3 (TONS)	3282.3 (TONS)	3282.3 (TONS)
343 10	16842.7	16842.7 (ACRES)	16842.7 (ACRES)	16842.7 (ACRES)	16842.7 (ACRES)	16842.7 (ACRES)	16842.7 (ACRES)	16842.7 (ACRES)	16842.7 (ACRES)
343 10	.19	.19 (TONS/ACRE)	.19 (TONS/ACRE)	.19 (TONS/ACRE)	.19 (TONS/ACRE)	.19 (TONS/ACRE)	.19 (TONS/ACRE)	.19 (TONS/ACRE)	.19 (TONS/ACRE)
343 10	61852.2	42546.9	60618.0	69926.2	61231.0	31319.4	49417.1	32617.7	32617.7
343 10	1.9	1.3	1.9	2.1	1.9	1.0	1.4	1.4	1.4
343 10	31.2	2.0	-13.1	1.0	49.4	26.5	26.5	26.5	26.5

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CONNEAUT CREEK										COUNTY: 27 CRAWFORD, PENNSYLVANIA										EXISTING SOIL LOSS X FACTOR (TONS/ACRE)	
LAND USE		EXISTING POTENTIAL GROSS EROSION		LOSS TO FLOWING AND EXISTING ONLY		FALL PLOWING ONLY		WINTER COVER CROP		MAXIMUM REDUCTION TILLAGE		REDUCED TILLAGE: CHISEL PLOW AREA		SOIL MGMT. BROAD-AREA		EXISTING SOIL LOSS X FACTOR (TONS/ACRE)					
CROPLAND 1	12192.7	8500.4	11887.9	14174.0	12192.7	3553.0	8077.7	2498.9	2498.8												
345	4.9	5.4	4.8	5.7	4.9	1.3	3.2	4.9	4.9												
CROPLAND 2	32173.2	22871.1	31368.9	37401.4	32173.2	8847.6	21514.8	7512.0	7156.2												
346	4.3	3.0	4.2	5.0	4.3	1.2	2.3	4.4	4.4												
CROPLAND 3	7557.5	7557.5	7368.6	8765.6	7557.5	7557.5	7557.5	2688.5	0.0												
345	2.8	2.8	2.7	3.3	2.8	2.8	2.3	0.0	0.0												
CROPLAND 4	1181.5	1181.5	1152.4	1373.5	1181.5	782.8	782.8	1384.7	0.0												
346	.9	.9	.9	1.1	.9	.6	.5	0.0	0.0												
CROPLAND 5	9942.4	9942.4	9693.8	11558.0	9942.4	9942.4	9942.4	10556.3	0.0												
346	.9	.9	.9	1.1	.9	.9	.7	0.0	0.0												
CROPLAND 10	4977.4	1028.0	4803.2	8111.5	4977.4	1918.8	4622.7	276.8	276.8												
346	25.2	3.7	24.6	29.3	25.2	6.9	16.7	25.2	25.2												
CROPLAND 11	78024.9	51088.9	68274.4	81484.0	78024.9	32402.1	52297.3	24329.1	24329.1												
346	2.8	2.1	2.7	3.3	2.8	1.3	2.1	2.1	2.1												
VINEYARDS AND ORCH.	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6	348.6												
346	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86	1.86												
GRASSLAND AND PASTURE	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0	345.0												
346	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13												
WOODLAND	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9	4861.9												
346	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.18												
SUMMARY TOTAL POTENTIAL GROSS EROSION		78593.4	58899.4	76773.6	90423.0	78593.4	59481.1	60164.5	56063.2												
PERCENT REDUCTION:		6.0	25.1	2.3	-15.1	0.0	49.8	23.4													

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CONNEAUT CREEK		CONNEAUT, OH		COUNTY: 62 ALL IN BASIN			
LAND USE	EXISTING POT. REDUCE	SOIL SPRING	FALL	WINTER	MAXIMUM	REDUCED	EXISTING
	GROSS	LOSS TO T	PLOWING	COVER	REDUCTION	TILLAGE:	SOIL LOSS
	EROSION	AND EXISTING, ONLY	ONLY	CRAP	TILLAGE	CHISEL PLOW AREA	ST FACTOR
	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(TONS)	(ACRES)
	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)	(TONS/ACRE)
CROPLAND	19609.0	15120.4	19150.4	19542.0	5167.0	12742.5	9192.9
345	3.6	2.8	3.5	3.6	1.0	2.4	4.3
CROPLAND	66639.7	46323.8	63181.9	64390.1	17541.5	42967.9	14036.0
346	3.8	2.7	3.7	3.8	1.0	2.5	4.3
CROPLAND	25486.9	20508.5	24913.0	25295.6	25486.9	25486.9	4270.0
345	3.5	2.8	3.4	3.5	3.5	3.5	6.2
CROPLAND	1796.8	1796.8	1754.0	1798.2	1140.8	1140.2	0.0
346	.9	.9	.9	.9	.6	.5	0.0
CROPLAND	10436.5	10436.5	12178.1	10433.0	10436.5	10436.5	7.0
345	.9	.9	.9	.9	.9	.9	0.0
CROPLAND	15161.6	2849.0	14811.2	15073.6	3678.8	9374.7	751.2
346	20.2	3.5	19.7	20.1	4.9	12.5	20.2
CROPLAND	137130.5	96835.0	133982.6	136524.5	63950.7	102149.3	91285.5
345	3.1	2.2	3.0	3.1	1.4	2.3	
VINEYARDS	1399.9	1141.9 (TONS)		1721.9 (ACRES)			
AND ORCH.	723.2	723.2 (ACRES)	AREA ONLY				
	1.94	1.58 (TONS/ACRE)					
GRASSLAND	789.0	789.0 (TONS)	OTHER LAND	10205.1 (ACRES)			
AND PASTURE	7004.0	7004.0 (ACRES)	USE AREA				
	.11	.11 (TONS/ACRE)					
WOODLAND	8934.8	8934.8 (TONS)	MISSING DATA	6768.6 (ACRES)			
	50194.4	50194.4 (ACRES)					
	.18	.18 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	158061.6	115100.4	154711.0	157415.5	79507.7	120765.1	100357.9
	1.5	1.1	1.4	1.4	.7	1.1	
PERCENT REDUCTION:	0.0	27.2	2.1	-14.4	.4	49.7	23.6

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: BACCOON CREEK		W. SPRINGVILLE, PA		COUNTY: 26 (REC. PENNSYLVANIA		ALL IN BASIN	
LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CALSEL 2-3M AREA (TONS)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
1. CROPLAND	173.0	173.0	169.3	197.2	37.2	100.3	118.6
2. PASTURE	1.5	1.5	1.4	1.7	.3	.3	0.0
3. WOODLAND	1301.7	1225.6	1273.7	1483.6	279.9	755.8	395.4
4. OTHER LAND	3.3	3.1	3.2	3.9	.7	1.9	3.3
5. TOTAL	1879.7	1398.6	1443.0	1680.8	317.1	956.3	510.0
6. VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. GRASSLAND AND PASTURE	6.8	6.8	6.8	6.8	158.1	158.1	158.1
8. WOODLAND	269.3	269.3	269.3	269.3	0.0	0.0	0.0
9. TOTAL	1067.5	1067.5	1067.5	1067.5	0.0	0.0	0.0
10. SUMMARY TOTAL POTENTIAL GROSS EROSION	1758.8	1678.7	1719.1	1956.9	593.2	1132.9	1660.6
11. PERCENT REDUCTION:	0.0	4.3	1.4	-11.0	.9	33.1	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: HILL CREEK		COUNTY: 26 ERIE, PENNSYLVANIA										ALL IN BASIN	
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	EXISTING POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	REDUCE SOIL PLUING ONLY (TONS/ACRE)	FALL PLUING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISPL PLOW AREA (TONS/ACRE)	SOIL WGT. 3RD PL LAY (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)				
CROPLAND 1	596.1	596.1	583.3	679.4	589.7	128.2	346.1	266.9	0.0				
546	2.2	2.2	2.2	2.5	2.2	.5	1.3		0.0				
CROPLAND 2	306.7	296.7	300.1	349.6	303.4	66.0	178.1	177.3	89.0				
342	1.7	1.7	1.7	2.0	1.7	.4	1.0		3.1				
CROPLAND 3	1392.4	808.6	1362.4	1587.0	1377.4	1392.4	1392.4	266.9	266.9				
546	5.2	3.0	5.1	5.9	5.2	5.2	5.2		5.2				
CROPLAND 4	2193.9	266.9	2145.7	2500.6	2170.3	471.8	1273.9	89.0	89.0				
546	24.7	3.0	24.1	28.1	24.4	5.3	14.3		24.7				
CROPLAND 5	4489.1	1960.3	4392.5	5116.5	4480.8	2058.4	3198.5	400.7					
546	5.6	2.4	5.5	6.4	5.5	2.5	4.0						
VINEYARDS AND ORCH.	969.9	852.4 (TONS)	4ATER AREA ONLY		89.0 (ACRES)								
	355.8	355.9 (ACRES)											
	2.73	2.40 (TONS/ACRE)											
GRASSLAND AND PASTURE	248.1	248.1 (TONS)	OTHER LAND USE AREA		2046.0 (ACRES)								
	711.7	711.7 (ACRES)											
	.35	.35 (TONS/ACRE)											
WOODLAND	556.7	556.7 (TONS)	MISSING DATA		89.0 (ACRES)								
	1779.2	1779.2 (ACRES)											
	.31	.31 (TONS/ACRE)											
SUMMARY TOTAL POTENTIAL GROSS EROSION													
	6416.6	6317.7	7059.5	6367.2	3926.6	5086.4	3736.4						
	1.7	1.7	1.9	1.7	1.1	1.4							
PERCENT REDUCTION:	8.0	40.4	1.5	-10.0	.0	38.8	28.7						

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CATTARAUGUS CREEK				COUNTY: 29 ERIE, NEW YORK																			
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE SOIL LOSS TO T. AND EXISTING GROSS EROSION (TONS/ACRE)	SOIL PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRIP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P.-JM AREA (TONS/ACRE)	SOIL MGMT. 3400 LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)														
200PLAND 1 546	26985.6 1.8	26985.6 1.8	26358.6 1.8	30795.3 2.1	26945.6 1.8	6349.5 .4	20318.5 1.4	14722.5	0.0														
200PLAND 2 546	2335.6 2.1	2335.6 2.1	2280.7 2.1	2655.4 2.4	2335.6 2.1	549.6 .5	1758.5 1.5	1112.0	0.0														
200PLAND 3 346	8191.1 2.5	8191.1 2.5	7998.4 2.4	9347.5 2.8	8191.1 2.5	8191.1 2.5	8191.1 2.5	3335.9	0.0														
200PLAND 4 346	164.4 .5	164.4 .5	160.5 .5	197.5 .6	164.4 .5	123.8 .4	123.8 .4	333.6	0.0														
200PLAND 5 346	149.1 .4	149.1 .4	145.6 .4	170.2 .4	149.1 .4	149.1 .4	149.1 .4	400.3	0.0														
200PLAND 10 346	20547.9 17.4	3536.1 3.0	20063.9 17.0	24471.6 19.9	20547.9 17.4	4839.5 4.1	15486.4 13.1	1178.7	0.0														
200PLAND	58393.7 2.8	41361.9 2.0	57019.7 2.7	66637.6 3.2	58393.7 2.8	20202.6 1.0	46027.5 2.2	21083.0	0.0														
VINEYARDS AND ORCH.	282.1 311.4 .91	282.1 311.4 .91	282.1 311.4 .91	282.1 311.4 .91	15500.6 (ACRES)																		
GRASSLAND AND PASTURE	525.6 3224.7 .16	525.6 3224.7 .16	525.6 3224.7 .16	525.6 3224.7 .16	5426.4 (ACRES)																		
4000LAND	10143.4 18303.0 .56	10143.4 18303.0 .56	10143.4 18303.0 .56	10143.4 18303.0 .56	3046.6 (ACRES)																		
SUMMARY TOTAL POTENTIAL GROSS EROSION	74316.0 1.6	56069.2 1.2	72834.5 1.6	85159.1 1.8	74316.0 1.6	33406.3 .7	61066.1 1.3	45968.9	0.0														
PERCENT REDUCTION:	9.0	24.5	2.0	-11.3	0.0	55.0	17.3																

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

WASTEWATER CATTARAUGUS CREEK CATTARAUGUS COUNTY, NY (INVALID SOILS)

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO Y PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MOIST. STOR. LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	132448.3	92449.2	13705.6	149875.7	132448.3	18290.8	51810.3	30823.8	30823.8
345	4.3	3.0	6.2	4.9	4.3	.6	1.7	8.3	8.3
CROPLAND 2	34497.0	15647.9	34043.1	39036.0	34497.0	4766.0	13390.3	5715.5	5137.3
346	6.0	2.7	6.0	6.8	6.0	.8	2.3	6.7	6.7
CROPLAND 3	184796.4	70788.1	182364.8	209111.7	184796.4	184796.4	184795.3	23596.0	23596.0
346	7.8	3.0	7.7	8.9	7.8	7.8	7.3	7.8	7.8
CROPLAND 4	2722.6	2468.6	2666.8	3080.9	2722.6	1056.8	1056.3	822.9	822.9
346	3.3	3.0	3.3	3.7	3.3	1.3	1.3	3.3	3.3
CROPLAND 5	1422.2	1422.2	1403.5	1609.4	1422.2	1422.2	1422.2	1801.4	1801.4
346	.8	.8	.8	.9	.8	.8	.3	0.0	0.0
CROPLAND 10	208361.9	23907.3	205620.3	235777.9	208361.9	28786.9	80877.3	8028.4	8028.4
346	26.0	3.0	25.5	29.4	26.0	3.6	10.1	26.0	26.0
CROPLAND	56248.4	206733.3	556824.1	638491.6	56248.4	259127.1	332953.2	78789.0	78789.0
346	8.0	2.9	7.9	9.0	8.0	3.4	9.7		
VINEYARDS AND ORCH.	1595.2	1001.3 (TONS)	711.6 (ACRES)	2935.6 (ACRES)					
	711.7	1.41 (TONS/ACRE)							
GRASSLAND AND PASTURE	2585.1	2585.1 (TONS)	OTHER LAND USE AREA	15322.9 (ACRES)					
	12409.6	12409.6 (ACRES)							
	.21	.21 (TONS/ACRE)							
WOODLAND	35443.0	35443.0 (TONS)	MISSING DATA	9073.7 (ACRES)					
	71811.1	71811.1 (ACRES)							
	.49	.49 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	639058.8	260111.6	631201.9	717624.1	639058.8	294993.0	394287.0	164794.1	164794.1
	3.9	1.6	3.8	4.4	3.9	1.8	2.4		
PERCENT REDUCTION:	0.0	59.2	1.2	-12.3	0.0	53.4	39.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CATTARAUGUS CREEK		SOMERSET, NEW YORK		COUNTY: 31 WYOMING, NEW YORK															
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. GRIPP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
1 CROPLAND	30264.2	25101.5	29698.5	34224.0	30264.2	7353.9	19233.3	9451.0	8362.0	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2 CROPLAND	4067.5	4067.5	3591.5	4599.7	4067.5	988.4	2583.2	1690.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3 CROPLAND	14689.3	14689.3	14414.7	16611.3	14689.3	14689.3	14689.3	5337.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 CROPLAND	809.1	809.1	793.9	914.9	809.1	514.2	514.2	1512.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5 CROPLAND	151.8	151.8	149.0	171.7	151.8	151.8	151.8	533.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10 CROPLAND	10723.9	2401.9	10523.5	12127.0	10723.9	2605.8	6615.2	800.6	200.6	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	1156.5	1156.5	18325.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PASTURE AND PASTURE	478.9	478.9	478.9	478.9	478.9	2935.6	2935.6	47319.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WOODLAND	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	1747.8	47319.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUMMARY TOTAL POTENTIAL GROSS EROSION	64834.8	50628.2	63273.0	72567.2	64834.8	29211.2	47319.9	54337.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PERCENT REDUCTION:	0.0	21.4	1.4	-12.6	0.0	54.7	26.5												

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: CATTARAUGUS CREEK		COUNTY: 63 ALLEGANY, NEW YORK									
LAND USE	EXISTING POT-REDUCE SOIL SPRING LOSS TO TILLAGE ONLY AND EXISTING ONLY (TONS)	EXISTING POT-REDUCE SOIL SPRING LOSS TO TILLAGE ONLY AND EXISTING ONLY (TONS)	FALL PLUING ONLY (TONS)	WINTER COVER (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MONY. EROSION LAND (ACRES)	EXISTING SOIL MONY. EROSION LAND (ACRES)	EXISTING SOIL MONY. EROSION LAND (ACRES)	EXISTING SOIL MONY. EROSION LAND (ACRES)	EXISTING SOIL MONY. EROSION LAND (ACRES)
200PLAND 1	2019.3	1601.2	2387.4	2737.6	2419.3	339.2	939.1	533.7	533.7	533.7	533.7
200PLAND 3	2054.7	1948.1	2027.7	2125.1	2054.7	2054.7	2054.7	522.7	522.7	522.7	522.7
200PLAND 5	4474.0	3469.3	4415.1	5062.7	4474.0	2388.9	2993.9	1156.4	1156.4	1156.4	1156.4
VINEYARDS AND ORCH.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2100SLAND AND PASTURE	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9
2000SLAND	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2
SUMMARY TOTAL POTENTIAL GROSS EROSION	6919.1	5429.4	6031.8	7792.0	6919.1	3827.4	4724.3	3925.2	3925.2	3925.2	3925.2
PERCENT REDUCTION:	0.0	21.5	1.3	-12.6	0.0	44.7	31.7				

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: CATTARAUGUS CREEK		GOWANDA, NY		COUNTY: 62 ALL IN BASIN															
-AND USE		EXISTING POT. REDUCE SOIL		FALL		WINTER		MAXIMUM		REDUCED		SOIL MGMT.							
		LOSS TO T. PLOWING		PLOWING		COVER		REDUCTION		TILLAGE:		303JP LAND							
		AND EXISTING ONLY		ONLY		CROP		TILLAGE		CHISEL PLOW AREA									
		(TONS)		(TONS)		(TONS)		(TONS)		(TONS)		(ACRES)							
		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)		(TONS/ACRE)							
CROPLAND		192117.2		189142.0		217632.5		192117.2		32336.5		54531.0							
546	1	3.5	2.7	3.5	4.0	9.0	3.5	3.5	3.5	1.7	1.7	39719.6	4.2						
CROPLAND		40980.1		40315.2		46301.1		40980.1		17733.9		9317.7							
546	2	4.0	2.6	4.7	5.4	4.8	4.8	4.8	4.8	2.1	2.1	5137.3	6.7						
CROPLAND		209731.4		206805.6		237395.5		209731.4		209731.4		32892.1							
546	3	6.4	2.9	6.3	7.2	6.4	6.4	6.4	6.4	6.4	6.4	26218.7	1.7						
CROPLAND		3696.1		3541.3		4193.4		3696.1		1694.7		2568.7							
546	4	1.4	1.3	1.4	1.6	1.4	1.4	1.4	1.4	.6	.6	822.9	3.3						
CROPLAND		1723.2		1694.1		1951.2		1723.2		1723.2		2735.5							
546	5	.6	.6	.6	.7	.6	.6	.6	.6	.6	.6	0.0	0.0						
CROPLAND		239653.6		236227.6		271376.3		239653.6		36232.2		11007.7							
546	10	23.9	3.0	23.6	27.1	23.9	23.9	23.9	23.9	13.3	13.3	10007.7	23.9						
CROPLAND		687821.6		677829.8		778840.2		687821.6		425963.7		111352.7							
546		6.2	2.7	6.1	7.3	6.2	6.2	6.2	6.2	3.1	3.1								
VINEYARDS		1877.4		1283.4 (TONS)		WATER		5648.6 (ACRES)											
AND ORCH.		1023.0	1.25 (TONS/ACRE)	1023.0 (ACRES)	1.25 (TONS/ACRE)	ARFA ONLY													
GRASSLAND		3598.8		3598.8 (TONS)		OTHER LAND		24951.8 (ACRES)											
AND PASTURE		20260.1	20260.1 (ACRES)	20260.1 (ACRES)	20260.1 (ACRES)	USE ARFA													
WOODLAND		47557.5		47557.5 (TONS)		MISSING DATA		14166.5 (ACRES)											
546		102123.3	.47	102123.3 (ACRES)	.47 (TONS/ACRE)														
SUMMARY TOTAL POTENTIAL GROSS EROSION		785562.1		774967.3		882073.2		785562.1		361636.7		507902.4		249925.5					
PERCENT REDUCTION:		3.2		1.5		3.1		3.2		1.5		2.3							
		0.0		52.5		1.3		-12.3		0.0		54.0		35.3					

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS
U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
ALL IN BASIN

BASIN: S. RR. CATTARAUGUS		CITY: NY		COUNTY: S. CATTARAUGUS, NY (INVALID SOILS)							
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	FALL FLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. STUMP LAND (ACRES)	EXISTING SOIL LOSS T FACTOR (TONS/ACRE)			
CROPLAND 1	11869.3	7272.3	11713.1	13831.3	11869.3	4607.2	2024.1	2024.1			9.9
SWG	4.9	3.0	4.8	5.5	4.9	1.3					6.4
CROPLAND 2	4035.5	1923.1	3982.4	4566.5	4035.5	1565.4	733.3	522.7			6.4
SWG	5.5	2.4	5.4	6.2	5.5	2.1					6.4
CROPLAND 3	21917.2	9807.6	21624.8	24831.1	21917.2	21917.2	3269.2	3269.2			6.7
SWG	6.7	3.0	6.6	7.6	6.7	6.7					6.7
CROPLAND 4	426.1	333.6	429.5	492.2	426.1	165.4	111.2	111.2			3.8
SWG	3.8	3.0	3.8	4.3	3.8	1.5					3.8
CROPLAND 5	206.4	206.4	203.7	233.5	206.4	206.4	266.3	7.0			0.0
SWG	.8	.8	.8	.9	.8	.5					0.0
CROPLAND 10	21868.0	2535.3	21580.3	24745.9	21868.0	4448.2	445.1	445.1			25.9
SWG	25.9	3.0	25.5	29.4	25.9	10.0					25.9
CROPLAND	60322.5	22074.3	59528.8	68259.7	60322.5	36950.9	7650.6				
VINEYARDS AND ORCH.	137.1	126.8 (TONS)	131.2 (ACRES)	131.2 (ACRES)	355.8 (ACRES)						
	1.23	1.14 (TONS/ACRE)	1.14 (TONS/ACRE)								
GRASSLAND AND PASTURE	308.1	308.1 (TONS)	OTHER LAND	1512.3 (ACRES)							
	1334.4	1334.4 (ACRES)	JSE AREA								
	.23	.23 (TONS/ACRE)									
WOODLAND	1588.9	1588.9 (TONS)	MISSING DATA	445.1 (ACRES)							
	4097.6	4097.6 (ACRES)									
	.39	.39 (TONS/ACRE)									
SUMMARY TOTAL POTENTIAL GROSS FROSTION	66357.5	25654.3	65512.7	74805.0	66357.5	31432.5	13990.7				
PERCENT REDUCTION:	0.0	61.3	1.3	-12.7	0.0	52.6	37.3				

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DELAWARE CREEK		ANGOLA, NY		COUNTY: 29 ERIE, NEW YORK				ALL IN BASIN	
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO F PLowing AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLowing ONLY (TONS/ACRE)	FALL PLowing ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REQUIRED TILLAGE: CHISEL P-3/4 ATER (TONS/ACRE)	SOIL MGMT. GROUP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
230PLAND 1	1186.4	360.6	1000.1	1262.5	1106.4	260.3	833.0	889.6	222.4
546	1.2	1.1	1.2	1.4	1.2	.3	.3		2.7
230PLAND 2	484.1	484.1	472.7	552.4	484.1	123.9	369.3	422.5	0.0
546	1.1	1.1	1.1	1.3	1.1	.3	.3		0.0
230PLAND 3	2311.6	2311.6	2257.2	2637.3	2311.6	2311.6	2311.6	1134.2	0.0
546	2.0	2.0	2.0	2.3	2.0	2.0	2.3		0.0
230PLAND 4	8.9	8.9	8.7	10.1	8.9	6.7	6.7	22.2	9.0
546	.4	.4	.4	.5	.4	.3	.3		0.0
230PLAND 5	18.8	18.8	18.3	21.4	18.8	16.6	16.6	44.3	0.0
546	.4	.4	.4	.5	.4	.4	.4		0.0
230PLAND 10	945.6	208.2	923.4	1379.1	945.6	222.5	712.0	66.7	66.7
546	14.2	3.0	13.8	16.2	14.2	5.3	10.7		14.2
CROPLAND	4875.4	3984.2	4760.6	5563.5	4875.4	2933.8	4246.6	2579.7	
	1.9	1.5	1.8	2.2	1.9	1.1	1.5		
VINEYARDS AND ORCH.	47.6	47.6 (TONS)	47.6 (TONS)	47.6 (TONS)	47.6 (TONS)	47.6 (TONS)	47.6 (TONS)	47.6 (TONS)	47.6 (TONS)
	1.07	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)	1.07 (TONS/ACRE)
PASTURE AND PASTURE	56.9	56.9 (TONS)	56.9 (TONS)	56.9 (TONS)	56.9 (TONS)	56.9 (TONS)	56.9 (TONS)	56.9 (TONS)	56.9 (TONS)
	311.4	311.4 (ACRES)	311.4 (ACRES)	311.4 (ACRES)	311.4 (ACRES)	311.4 (ACRES)	311.4 (ACRES)	311.4 (ACRES)	311.4 (ACRES)
	.18	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)	.18 (TONS/ACRE)
WOODLAND	185.7	185.7 (TONS)	185.7 (TONS)	185.7 (TONS)	185.7 (TONS)	185.7 (TONS)	185.7 (TONS)	185.7 (TONS)	185.7 (TONS)
	1112.0	1112.0 (ACRES)	1112.0 (ACRES)	1112.0 (ACRES)	1112.0 (ACRES)	1112.0 (ACRES)	1112.0 (ACRES)	1112.0 (ACRES)	1112.0 (ACRES)
	.17	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)	.17 (TONS/ACRE)
SUMMARY TOTAL POTENTIAL GROSS EROSION	5960.3	4952.0	5827.8	6754.5	5960.3	3720.3	5234.3	4670.3	
	1.3	1.1	1.2	1.4	1.3	.8	1.1		
PERCENT REDUCTION:	0.0	17.3	2.2	-13.3	0.1	37.6	12.2		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS - BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES - BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: 18 MILE CREEK			N. BOSTON, NY			COUNTY: 29 CRIF, NEW YORK			ALL IN BASIN		
LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING ONLY	FALL PLOWING ONLY	WINTER COVER CROP	MAXIMUM REDUCTION TILLAGE	REDUCED TILLAGE: CHISEL P. 3/4 AREA	SOIL WGMT. 3/4 AREA	EXISTING SOIL LOSS > 1 FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)			
1	9702.1	9644.6	9473.8	11071.8	9702.1	2282.8	7305.1	3758.5	44.5	3.3	
2	1353.5	1353.5	1321.6	1544.6	1353.5	318.5	1019.1	467.0	0.0	0.0	
3	7401.9	6071.4	7227.8	8446.0	7401.9	7401.9	7401.9	2023.3	2023.3	5.7	
4	65.1	65.1	63.6	74.3	65.1	49.0	49.0	49.0	0.0	0.0	
5	137.7	137.7	134.4	157.1	137.7	137.7	137.7	311.4	0.0	0.0	
10	15839.3	2312.9	15466.6	18075.4	15839.3	3726.9	11926.1	845.1	845.1	19.7	
30	34499.6	19585.2	33687.8	39370.1	34499.6	13916.8	27839.9	7694.9			
VINEYARDS AND ORCH.	126.6	126.6 (TONS)	126.6	126.6 (TONS)	126.6	126.6 (TONS)	126.6	126.6			
BRASSLAND AND PASTURE	295.9	295.9 (TONS)	295.9	295.9 (TONS)	295.9	295.9 (TONS)	295.9	295.9			
WOODLAND	6140.9	6140.9 (TONS)	6140.9	6140.9 (TONS)	6140.9	6140.9 (TONS)	6140.9	6140.9			
SUMMARY TOTAL POTENTIAL GROSS EROSION											
PERCENT REDUCTION:	0.0	36.3	2.0	-11.9	0.0	50.1	16.2				

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LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL

COUNTY: 30 ST. CLAIR, MICHIGAN

LAND USE	EXISTING GROSS FROSTION (TONS)	POT. REDUCE LOSS TO FROSTION AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WGT. 34JJP LAND (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	8817.3	5980.2	10222.9	15656.0	5219.0	12253.2	44249.4	1570.0
34S	2.0	1.3	2.3	2.0	.7	1.5	4.4	4.4
CROPLAND 2	15656.9	15430.0	14152.9	15656.0	5219.0	12253.2	44249.4	7.8
34S	.4	.3	.3	.4	.1	.3	0.0	0.0
CROPLAND 3	5747.3	5747.3	6663.6	5747.3	5747.3	5747.3	11539.9	0.0
34S	.5	.5	.6	.5	.5	.5	0.0	0.0
CROPLAND 4	1279.9	1279.9	1463.9	1279.9	1001.6	1001.6	5670.0	0.0
34S	.2	.2	.3	.2	.2	.2	0.0	0.0
CROPLAND 5	5010.3	4937.7	5809.0	5010.3	5010.3	5010.3	23739.5	0.0
34S	.2	.2	.3	.2	.2	.2	0.0	0.0
CROPLAND 9	619.6	610.7	710.4	619.6	619.6	619.6	3139.9	0.0
34S	.2	.2	.2	.2	.2	.2	0.0	0.0
CROPLAND	37131.3	34294.2	43050.7	37131.3	20536.9	31532.3	92148.9	
34S	.4	.4	.5	.4	.2	.3		
VINEYARDS AND ORCH.	118.3	118.3 (TONS)	300.0 (ACRES)	300.0 (ACRES)	2330.0 (ACRES)			
34S	.39	.39	.39					
PASTURE	235.1	235.1 (TONS)	31459.5 (ACRES)	31459.5 (ACRES)				
34S	.02	.02	.02					
WOODLAND	363.7	363.7 (TONS)	162188.4 (ACRES)	162188.4 (ACRES)				
34S	.04	.04	.04					
SUMMARY TOTAL POTENTIAL GROSS EROSION	90364.0	83591.1	104497.7	90364.0	50744.9	76997.4	279077.0	
PERCENT REDUCTION:	0.0	7.5	1.4	-15.6	0.0	43.8	14.8	

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3ASIN: DIRECT DRAINAGE MAINFIL

COUNTY: 38 MACOMB, MICHIGAN

LAND USE	EXISTING POT-REDUCE SOIL SPRING GROSS LOSS TO T. PLOWING AND EXISTING ONLY (TONS) (TONS/ACRE)	FALL PLOWING ONLY (TONS) (TONS/ACRE)	WINTER COVER CROP (TONS) (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS) (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS) (TONS/ACRE)	SOIL MGMT. STEEP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES) (TONS/ACRE)
1 CROPLAND SUG	1684.1 1.1	1661.7 1.1	1919.9 1.3	536.8 .2	931.9 .6	1500.0	0.0 0.0
2 CROPLAND SUG	11421.7 .8	11269.4 .8	11269.7 .3	2284.3 .2	6320.3 .1	14229.9	0.0 0.0
3 CROPLAND SUG	4542.0 1.5	4401.5 1.5	4481.5 1.5	4542.0 1.5	4542.0 1.5	3000.0	0.0 0.0
4 CROPLAND SUG	2400.0 .5	2368.0 .5	2368.0 .5	1328.0 .3	1328.0 .3	5160.0	0.0 0.0
5 CROPLAND SUG	107.3 .4	105.9 .4	105.9 .4	107.3 .4	107.3 .4	200.0	0.0 0.0
8 CROPLAND SUG	68.4 .4	67.5 .4	67.5 .4	37.5 .2	37.5 .2	160.0	0.0 0.0
9 CROPLAND	20223.5 .8	19954.0 .8	23054.9 .9	8636.2 .4	13267.0 .3	24409.0	
10 VINEYARDS AND ORCH.	27.3 80.0 .34	27.3 (TONS) 80.0 (ACRES) .34 (TONS/ACRE)	770.0 (ACRES)				
11 GRASSLAND AND PASTURE	214.7 15239.9 .01	214.7 (TONS) 15239.9 (ACRES) .01 (TONS/ACRE)	40839.6 (ACRES)				
12 WOODLAND	65.2 2940.0 .02	65.2 (TONS) 2940.0 (ACRES) .02 (TONS/ACRE)	10899.9 (ACRES)				
SUMMARY TOTAL POTENTIAL GROSS EROSION	25775.2 .5	25036.9 .5	25329.9 .5	11228.0 .2	17041.7 .3	53569.6	
PERCENT REDUCTION:	6.0	0.0	1.3	-13.4	1.3	56.4	33.9

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL COUNTY: 17 CAYLAND, MICHIGAN									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT-REDUCE SOIL LOSS TO 1 (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. 3100P LAND (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (TONS/ACRE)	
3100PLAND 1	6.2 .3	6.2 .3	6.1 .3	7.5 .4	6.2 .3	2.0 .1	20.0	0.0 0.0	
3100PLAND	6.2 .3	6.2 .3	6.1 .3	7.5 .4	6.2 .3	2.0 .1	20.0		
VINEYARDS AND ORCH.	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	JATER AREA ONLY		0.0 (ACRES)				
GRASSLAND AND PASTURE	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	OTHER LAND USE AREA		0.0 (ACRES)				
WOODLAND	0.0 0.0 0.00	0.0 (TONS) 0.0 (ACRES) 0.00 (TONS/ACRE)	MISSING DATA	21909.7 (ACRES)					
SUMMARY TOTAL POTENTIAL GROSS EROSION									
	6798.2 .3	6798.2 .3	6688.6 .3	8223.6 .4	6798.2 .3	2193.0 .1	5153.3 .2	21929.7	
PERCENT REDUCTION:	0.0	0.0	1.6	-21.0	0.0	67.7	20.2		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL									
COUNTY: 4) WAYNE, MICHIGAN									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT-REDUCE LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL MGMT. 3RD PL. LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES) (TONS/ACRE)
1 CROPLAND 1	1550.3	1265.8	1541.1	1713.3	1558.3	292.7	817.9	1088.0	30.0
2 CROPLAND 2	14566.2	14566.2	14405.2	16014.8	14566.2	2736.2	7645.2	16559.3	0.0
3 CROPLAND 3	3266.1	3266.1	3230.0	3590.9	3266.1	1714.3	1710.3	6420.0	0.0
4 CROPLAND 4	148.1	148.1	138.6	154.1	140.1	140.1	140.1	170.0	0.0
5 CROPLAND 5	19538.7	19238.2	19314.9	21473.1	19530.7	4483.3	10317.5	24229.9	0.0
6 CROPLAND 6	44.9	44.9	44.9	44.9	44.9	610.0	610.0	610.0	0.0
7 PASTURE AND PASTURE	420.1	420.1	420.1	420.1	420.1	34935.6	34935.6	34935.6	0.0
8 WOODLAND	200.1	200.1	200.1	200.1	200.1	88167.2	88167.2	88167.2	0.0
9 SUMMARY TOTAL POTENTIAL GROSS EROSION	51586.2	50760.2	50955.4	56459.9	51506.2	14150.3	28009.4	143036.9	0.0
PERCENT REDUCTIONS:	0.0	1.4	1.1	-9.6	0.0	72.5	45.6		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFEL										COUNTY: AG-ASHMITHVA-- MICHIGAN									
LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO T. AND EXISTING ONLY (TONS)	SOIL SPRING LOSS TO T. PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 3RD PL. LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	LAND USE	EXISTING GROSS EROSION (TONS)	POT. LOSS TO T. AND EXISTING ONLY (TONS)	SOIL SPRING LOSS TO T. PLOWING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 3RD PL. LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
1--CROPLAND 1	9765.4	8019.7	9598.5	11170.8	9515.0	1919.7	5170.3	9220.3	1279.0	2--CROPLAND 2	5775.6	5775.6	5676.9	6565.4	5627.5	1135.4	3060.6	12449.3	0.0
546	2.0	1.6	2.0	2.3	1.9	.4	1.1		4.2	546	.5	.5	.5	.6	.5	.1	.3		0.0
3--CROPLAND 3	3131.2	3131.2	3077.7	3559.4	3050.9	3131.2	3131.2	1920.0	0.0	546	1.6	1.6	1.6	1.9	1.6	1.6	1.5		0.0
546	1.6	1.6	1.6	1.6	1.6	1.6	1.5		0.0	4--CROPLAND 4	1561.0	1561.0	1534.3	1774.5	1521.0	427.2	927.2	4450.0	0.0
546	.4	.4	.3	.4	.3	.2	.2		0.0	546	.4	.3	.3	.4	.3	.2	.2		0.0
5--CROPLAND 5	82.8	82.8	81.4	94.1	80.7	82.8	82.8	240.3	0.0	546	.3	.3	.3	.3	.3	.3	.3		0.0
10--CROPLAND 10	82.2	50.0	80.8	93.4	80.1	16.2	43.5	10.0	10.0	546	8.2	5.0	8.1	9.3	8.0	1.6	4.4		10.0
1--CROPLAND 1	20398.2	18620.3	27049.6	23187.6	19475.2	7112.5	12320.2	22429.9		546	.9	.8	.9	1.0	.9	.3	.5		
VINEYARDS AND ORCH.	144.5	144.5 (TONS)	JATER AREA ONLY	170.0 (ACRES)						546	.45	.45 (TONS/ACRE)							
GRASSLAND AND PASTURE	284.2	284.2 (TONS)	JATER LAND USE AREA	1009.9 (ACRES)						546	.05	.05 (TONS/ACRE)							
WOODLAND	157.5	157.5 (TONS)	MISSING DATA	6150.0 (ACRES)						546	.05	.05 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	25106.2	22979.1	24689.2	28443.5	24480.5	9210.9	15441.3	37459.9		546	.7	.6	.7	.8	.7	.2	.4		
PERCENT REDUCTION:	0.0	0.5	1.7	-13.3	2.5	63.3	34.3			546	0.0	0.5	1.7	-13.3	2.5	63.3	34.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 01 MONROE, MICHIGAN (THACOG TOWNSHIPS 0									
BASIN: DIRECT DRAINAGE MAINFILL									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
1 CROPLAND	12678.8	12333.9	12034.2	12786.3	12678.8	12678.8	12678.8	12678.8	12678.8
546	1.4	1.4	1.3	1.4	1.4	1.4	1.4	1.4	1.4
2 CROPLAND	39889.1	39889.1	37860.8	40227.1	39889.1	39889.1	39889.1	39889.1	39889.1
546	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3 CROPLAND	40279.7	40279.7	38231.6	40621.0	40279.7	40279.7	40279.7	40279.7	40279.7
546	1.0	1.0	1.7	1.9	1.0	1.0	1.0	1.0	1.0
4 CROPLAND	41006.6	41006.6	38921.5	41354.1	41006.6	41006.6	41006.6	41006.6	41006.6
546	.7	.7	.7	.7	.7	.7	.7	.7	.7
5 CROPLAND	1214.6	1214.6	1152.9	1224.9	1214.6	1214.6	1214.6	1214.6	1214.6
546	.8	.8	.8	.8	.8	.8	.8	.8	.8
6 CROPLAND	135068.8	134723.9	128201.0	136213.4	135068.8	135068.8	135068.8	135068.8	135068.8
546	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1
VINEYARDS AND ORCH.	224.6	224.6 (TONS)	224.6 (TONS)	224.6 (TONS)	224.6 (TONS)	224.6 (TONS)	224.6 (TONS)	224.6 (TONS)	224.6 (TONS)
546	.38	.38	.38	.38	.38	.38	.38	.38	.38
7 GRASSLAND AND PASTURE	254.1	254.1 (TONS)	254.1 (TONS)	254.1 (TONS)	254.1 (TONS)	254.1 (TONS)	254.1 (TONS)	254.1 (TONS)	254.1 (TONS)
546	.01	.01	.01	.01	.01	.01	.01	.01	.01
WOODLAND	326.7	326.7 (TONS)	326.7 (TONS)	326.7 (TONS)	326.7 (TONS)	326.7 (TONS)	326.7 (TONS)	326.7 (TONS)	326.7 (TONS)
546	.02	.02	.02	.02	.02	.02	.02	.02	.02
SUMMARY TOTAL POTENTIAL GROSS EROSION	255438.5	254799.1	242527.3	257590.3	255438.5	255438.5	255438.5	255438.5	255438.5
PERCENT REDUCTION:	0.0	.3	5.1	-.9	0.0	56.1	38.8	38.8	38.8

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFEL									
COUNTY: W. LEAVELLE, WICHITAMA									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE SOIL SPRING LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH 3000+ LAND AREA (ACRES)	EXISTING SOIL LOSS TO FACTOR (TONS/ACRE)	
1	1095.4	800.6	1043.2	1199.7	1056.5	165.1	177.9	177.9	
2	6260.6	6260.6	5946.5	6564.6	6032.5	2661.0	2512.9	2512.9	
3	5571.6	5571.6	5300.9	5842.3	5368.6	2368.5	5327.6	5327.6	
4	336.5	336.5	320.1	352.8	324.2	336.5	572.1	572.1	
5	13265.1	12969.3	12620.7	13909.6	12781.8	5932.5	4690.5	4690.5	
VIETARDS AND ORCH.	0.0	0.0	0.0	0.0	266.9	0.0	0.0	0.0	
GRASSLAND AND PASTURE	266.9	266.9	266.9	355.8	355.8	355.8	355.8	355.8	
WOODLAND	17.7	17.7	17.7	89.0	89.0	89.0	89.0	89.0	
SUMMARY TOTAL POTENTIAL GROSS EROSION	13417.1	12766.5	14067.8	12929.1	3777.7	5912.9	9330.7	9330.7	
PERCENT REDUCTION:	0.0	2.2	4.8	-0.4	3.6	71.8	55.9	55.9	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL													
COUNTY: 09 LUCAS, OHIO													
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CRIPSEL P. 3D AREA (TONS/ACRE)	SOIL MGMT. 3D3D LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)			
1 CROPLAND	15581.5	6967.0	2778.0	1621.2	15085.0	2130.1	6910.0	1561.7	1339.4	22.4			
346	9.9	4.5	9.5	10.4	9.7	1.4	4.1						
2 CROPLAND	29121.1	27782.2	30460.0	28300.1	4016.7	12050.1	29563.7	0.0	0.0				
346	1.0	.9	1.0	1.0	.1	.1	.1						
3 CROPLAND	18687.7	7857.9	17752.1	19453.2	18108.6	18607.7	18607.7	2619.3	7.1				
346	7.1	3.0	6.8	7.4	6.9	7.1	7.1						
4 CROPLAND	15572.5	15572.5	14856.6	16288.5	15154.9	6443.8	6443.8	10747.2	0.0				
346	1.1	1.1	1.0	1.1	1.0	.4	.4		0.0				
5 CROPLAND	1616.4	1616.4	1542.1	1690.7	1573.1	1616.4	1616.4	2243.7	0.0				
346	.7	.7	.7	.8	.7	.7	.7		0.0				
6 CROPLAND	22248.9	22248.9	21218.3	23263.5	21844.4	3203.1	9203.1	23919.9	0.0				
346	.9	.9	.9	1.0	.9	.4	.4		0.0				
7 CROPLAND	102660.1	83375.8	97940.7	107380.1	99906.9	42025.8	54335.3	14655.4					
346	1.4	1.1	1.3	1.4	1.3	.6	.7						
VINEYARDS AND ORCH.	250.3	250.3 (TONS)	250.3 (TONS)	3133.3 (ACRES)	3133.3 (ACRES)								
346	.63	.63	.63	.63	.63								
GRASSLAND AND PASTURE	631.8	631.8 (TONS)	631.8 (TONS)	49559.4 (ACRES)	49559.4 (ACRES)								
346	.03	.03	.03	.03	.03								
WOODLAND	412.8	412.8 (TONS)	412.8 (TONS)	46475.5 (ACRES)	46475.5 (ACRES)								
346	.03	.03	.03	.03	.03								
SUMMARY TOTAL POTENTIAL GROSS EROSION													
	146723.0	119505.0	146061.2	153384.9	142837.2	51143.2	78317.3	143442.1					
	.9	.7	.9	1.0	.9	.4	.3						
PERCENT REDUCTION:													
	0.0	18.6	4.5	-4.5	-4.5	59.3	45.3						

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 15 HENRY, OHIO

BASIN: DIRECT DRAINAGE MAINFILL

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P.-OF AREA (TONS/ACRE)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)
CROPLAND 1	1104.6	1104.6	1104.5	1096.1	143.3	459.3	446.0	0.0
346	2.7	2.7	2.5	2.5	.3	1.3	0.0	0.0
CROPLAND 2	645.9	645.9	602.2	597.6	76.1	250.5	363.4	0.0
346	1.1	1.1	1.1	1.1	.1	.4	3.0	0.0
CROPLAND 4	339.4	339.4	316.5	314.1	131.7	131.7	355.0	0.0
346	1.0	1.0	.9	.9	.4	.4	0.0	0.0
CROPLAND 5	814.1	814.1	759.1	753.3	914.1	814.1	593.1	0.0
346	1.4	1.4	1.3	1.3	1.4	1.4	0.0	0.0
CROPLAND 9	1832.1	177.9	1708.2	1695.2	1832.1	1832.1	89.0	49.0
346	20.6	2.0	19.2	19.0	20.6	20.6	20.6	20.6
CROPLAND	4816.1	3161.9	4490.5	4456.3	2999.3	3487.3	2066.1	
346	2.4	1.5	2.2	2.2	1.5	1.7		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	0.0 (ACRES)				
346	0.0	0.0 (TONS/ACRE)						
GRASSLAND AND PASTURE	3.5	3.5 (TONS)	JATER LAND USE AREA	266.9 (ACRES)				
346	266.9	266.9 (ACRES)						
346	.01	.01 (TONS/ACRE)						
WOODLAND	67.9	67.9 (TONS)	MISSING DATA	49.0 (ACRES)				
346	1334.4	1334.4 (ACRES)						
346	.05	.05 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	5006.8	3312.2	4673.2	4634.2	3145.0	3646.2	3736.0	
PERCENT REDUCTION:	1.3	.9	1.3	1.2	.8	1.3		
	0.0	33.8	6.7	7.4	17.2	27.2		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3ASIVE: DIRECT DRAINAGE MAINFILL

COUNTY: DA WOODS OHIO

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO SPRING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	SOIL MGMT. REDUCED TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
1 CROPLAND	7210.7	5403.2	6761.6	7501.2	6761.6	2873.0	1910.1	345.9
2 CROPLAND	38865.0	27206.7	36444.8	40450.9	36444.8	15517.5	13294.2	4744.4
3 CROPLAND	14122.0	6961.0	13242.6	14691.0	14122.0	14122.0	2320.3	2520.3
4 CROPLAND	19479.9	19479.9	19479.9	19479.9	19479.9	19479.9	19479.9	19479.9
5 CROPLAND	2040.4	1842.4	1913.4	2122.7	1913.4	2040.4	1495.0	354.3
6 CROPLAND	82655.6	82655.6	82655.6	82655.6	82655.6	82655.6	82655.6	82655.6
7 CROPLAND	164373.6	143948.8	154137.7	170996.6	154137.7	75339.3	112175.7	112175.7
8 VINEYARDS AND ORCH.	53.3	50.2 (TONS)	49.4 (ACRES)	859.9 (ACRES)	859.9 (ACRES)	859.9 (ACRES)	859.9 (ACRES)	859.9 (ACRES)
9 GRASSLAND AND PASTURE	281.5	281.5 (TONS)	10726.8 (ACRES)	14527.3 (ACRES)	14527.3 (ACRES)	14527.3 (ACRES)	14527.3 (ACRES)	14527.3 (ACRES)
10 WOODLAND	275.1	275.1 (TONS)	6489.0 (ACRES)	4138.8 (ACRES)	4138.8 (ACRES)	4138.8 (ACRES)	4138.8 (ACRES)	4138.8 (ACRES)
SUMMARY TOTAL POTENTIAL GROSS EROSION	170284.2	149203.7	159719.5	177120.0	159719.5	63323.4	133599.7	133599.7
PERCENT REDUCTION:	0.0	12.4	6.2	-4.0	6.2	61.6	54.0	54.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: DIRECT DRAINAGE MAINFIL									
COUNTY: DS CUYAHGA, OHIO									
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO FERTILIZER AND EXISTING ONLY (TONS/ACRE)	REDUCE SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS/ACRE)	SOIL MGMT. SETUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 1 FACTOR (ACRES)
CROPLAND 1	1341.9	1890.4	1262.6	1415.5	1262.6	181.2	536.1	227.3	227.3
346	1	4.0	3.2	3.8	4.2	3.6	1.7	4.1	4.1
CROPLAND 2	7671.5	6050.5	7218.3	8092.3	7218.3	1035.8	2233.9	1947.2	1947.2
346	2	3.4	3.2	3.5	3.2	.5	1.3	3.8	3.8
CROPLAND 3	155897.0	57674.3	146687.9	164448.4	146687.9	155897.0	19224.9	19224.9	19224.9
346	3	8.1	3.0	7.6	8.6	8.1	9.1	8.1	8.1
CROPLAND 4	10515.0	10515.0	5893.9	11091.4	9893.9	4569.8	10269.7	0.0	0.0
346	4	1.0	1.0	1.1	1.0	.4	.4	0.0	0.0
CROPLAND 5	22418.0	5790.6	21093.8	23647.7	21093.8	22418.0	3449.6	1136.7	1136.7
346	5	6.5	1.7	6.1	6.9	6.5	6.5	17.5	17.5
CROPLAND 8	64207.9	64207.9	60415.0	67729.8	60415.0	27904.7	74378.5	0.0	0.0
346	8	.9	.9	.9	.8	.4	.4	0.0	0.0
CROPLAND	262051.3	145328.7	246571.5	276425.5	246571.5	212006.5	214705.7	198892.6	
346	2.4	1.3	2.2	2.5	2.2	1.9	2.0		
LIVESTOCK AND ORCH.	5978.2	2394.7 (TONS)			4003.1 (ACRES)				
	1710.0	1710.0 (ACRES)							
	3.50	1.75 (TONS/ACRE)							
PASTURE AND PASTURE	618.6	618.6 (TONS)			18374.7 (ACRES)				
	10655.2	10655.2 (ACRES)							
	.06	.06 (TONS/ACRE)							
WOODLAND	542.4	542.4 (TONS)			18843.2 (ACRES)				
	8174.2	8174.2 (ACRES)							
	.07	.07 (TONS/ACRE)							
3 JANUARY TOTAL POTENTIAL GROSS EROSION	308092.2	174501.6	290375.4	324543.7	290375.4	253815.2	253903.7	14281.2	
	2.1	1.2	1.9	2.2	1.9	1.7	1.7		
PERCENT REDUCTION:	0.0	43.4	5.4	-5.3	5.6	18.6	17.5		

PRACTICE SCENARIOS

3451A: DIRECT DR IMAGE 241MF11

COUNTRY: 16 SAUNDERS, JIM

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO PLACING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING LOSS TO PLACING ONLY (TONS/ACRE)	FALL PLACING ONLY (TONS/ACRE)	JUNTER COVER (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED FILLAGE CHISEL PLOW (TONS/ACRE)	SOIL MOIST. 5400 LARD AREA (ACRES)	EXISTING SOIL LOSS TO FACTOR (TONS/ACRE)
1 CROPLAND	170565.6	132461.8	153564.7	141345.0	162291.9	20566.0	68735.8	22536.0	22335.0
2 CROPLAND	79265.7	77866.4	76012.2	84293.7	75420.7	9460.6	31942.7	99702.7	21444.9
3 CROPLAND	135876.7	44478.9	130299.7	144495.8	179285.7	135876.7	135876.7	14026.3	14026.3
4 CROPLAND	7058.7	7058.7	6769.0	7506.5	6716.3	2948.6	2844.5	7169.5	0.0
5 CROPLAND	105598.5	19203.2	101256.6	112288.4	100468.6	105598.5	105598.5	9915.0	4131.6
6 CROPLAND	82149.5	82149.5	78777.7	87360.4	78164.6	33105.0	33105.3	79216.3	0.0
7 CROPLAND	50806.7	33258.5	556879.9	617329.8	552347.8	307247.4	378095.1	143265.4	0.0
8 WINEYARDS AND ORCH.	777.0	627.7 (TONS)	WATER AREA ONLY	2784.9 (ACRES)					
9 GRASSLAND AND PASTURE	712.1	712.1 (TONS)	OTHER LAND	17055.4 (ACRES)					
10 WOODLAND	890.4	890.4 (TONS)	MISSING DATA	7620.7 (ACRES)					
JANUARY TOTAL	603990.2	347502.2	578821.2	641614.9	574335.9	320571.7	393923.7	223200.9	
PERCENT REDUCTION:	2.7	1.6	2.6	2.9	2.6	1.4	1.5		
	0.0	42.4	9.1	-6.3	4.8	46.9	34.7		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

3453N: DIRECT DRAINAGE MAINFILL

COUNTY: 33 SENECA, NY10

LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO T. AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CRIP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CRIPSEL P.-30 AREA (TONS/ACRE)	SOIL MGMT. 613JP LAND (ACRES)	EXISTING SOIL LOSS > T. FACTOR (ACRES)
213PLAND 1	33098.5	25544.4	31375.2	35558.5	33098.5	4880.6	14641.7	7447.7	4447.9
545	4.4	3.4	4.2	4.8	4.4	.7	2.0	5.1	5.1
210PLAND 2	103707.1	83364.6	98532.1	111669.7	103707.1	15327.2	45901.7	20501.1	26677.5
546	3.6	2.9	3.5	3.9	3.6	.5	1.5	3.8	3.8
212PLAND 3	4096.9	4096.9	3889.5	4008.1	4096.9	4096.9	4096.9	2594.6	0.8
546	1.6	1.6	1.5	1.7	1.6	1.6	1.6	0.8	0.8
213PLAND 4	10749.3	10749.3	10205.1	11565.8	10749.3	4762.4	4762.4	10501.0	0.0
546	1.0	1.0	1.0	1.1	1.0	.5	.5	0.0	0.0
210PLAND 5	524.2	524.2	497.6	564.0	524.2	524.2	524.2	533.7	0.0
546	1.0	1.0	.9	1.1	1.0	1.0	1.0	0.0	0.0
210PLAND 6	587.8	587.8	558.1	632.5	587.8	260.4	260.4	583.2	0.0
546	1.0	1.0	1.0	1.1	1.0	.4	.4	0.0	0.0
210PLAND 10	2763.7	66.7	2623.8	2973.6	2763.7	408.1	1224.4	22.2	22.2
546	124.5	3.0	118.2	153.9	124.5	18.4	55.2	124.5	124.5
210PLAND	155557.5	124933.9	147601.4	167372.2	155557.5	30259.8	71091.7	53263.3	
546	5.1	2.5	2.9	3.3	5.1	.6	1.4		
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	4ATER AREA ONLY	551.0 (ACRES)					
BRASSLAND AND PASTURE	47.9	47.9 (TONS)	OTHER LAND USE AREA	3773.3 (ACRES)					
546	1183.6	1183.6 (ACRES)							
WOODLAND	234.7	234.7 (TONS)	MISSING DATA	7428.6 (ACRES)					
546	4166.2	4166.2 (ACRES)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	176634.2	101924.4	167707.1	190025.3	176634.2	34617.7	81391.3	63033.9	
PERCENT REDUCTION:	2.6	2.3	2.7	3.0	2.6	.5	1.3		
	0.0	19.7	5.1	-7.6	0.0	80.4	93.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASELINE: DIRECT DRAINAGE MAINFILL

SCENARIO: 97 (BIO-2013)

LAND USE	EXISTING POT. REDUCE SOIL SPRING LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CROP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL REENT. 6300+ LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE)
CROPLAND 1	101520.5	73291.1	95990.2	107050.8	97175.2	14918.3	5.4
346	5.4	3.9	5.1	5.7	2.2	0.3	0.0
CROPLAND 2	31876.8	30140.3	30512.4	4093.1	13147.6	22397.6	0.0
346	1.4	1.3	1.4	.2	.5	0.0	0.0
CROPLAND 3	23651.5	22363.1	24939.9	23651.5	23651.5	10100.7	0.0
346	2.3	2.2	2.4	2.3	2.3	0.0	0.0
CROPLAND 4	13061.6	12350.1	13773.2	5307.3	5307.3	13936.7	0.0
346	.9	.9	.9	.4	.4	9.0	9.0
CROPLAND 5	7760.2	7337.5	7428.1	7760.2	7760.2	4635.7	593.1
346	1.7	1.5	1.5	1.7	1.7	5.6	5.6
CROPLAND 6	2720.1	2571.9	2603.7	1121.9	1121.9	5034.3	0.0
346	.9	.8	.9	.4	.4	0.0	0.0
CROPLAND 10	26002.2	1314.6	24585.8	3330.8	18724.7	326.2	326.2
346	79.7	4.0	75.4	18.2	32.3	79.7	79.7
CROPLAND	206592.9	150949.9	195330.9	197750.5	103665.3	7329.7	
	2.8	2.1	2.7	2.7	1.4		
VINEYARDS AND ORCH.	907.6	907.6 (TONS)		1265.2 (ACRES)			
	1126.1	1186.1 (ACRES)					
	.77	.77 (TONS/ACRE)					
GRASSLAND AND PASTURE	1099.0	1095.5 (TONS)		18157.3 (ACRES)			
	20489.9	20489.9 (ACRES)					
	.05	.05 (TONS/ACRE)					
WOODLAND	2503.9	2503.9 (TONS)		8747.5 (ACRES)			
	16338.6	16338.6 (ACRES)					
	.16	.16 (TONS/ACRE)					
SUMMARY TOTAL POTENTIAL GROSS EROSION	227799.6	167749.1	215622.3	239897.1	116753.2	120191.9	
	1.9	1.4	1.8	2.0	.6		
PERCENT REDUCTION:	0.0	26.3	5.3	-5.3	4.2	49.7	

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 34 MURON, OHIO									
BASIN: DIRECT DRAINAGE MAINFILL									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO FLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL P.L. AREA (TONS/ACRE)	SOIL WASH: GRIDP LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	
CROPLAND 1	13428.3	5288.0	12783.8	14056.8	12836.8	1856.6	5622.7	1284.9	1284.9
	18.4	4.1	9.9	10.9	10.0	1.4	4.4	10.4	
CROPLAND 2	1812.8	1210.1	1726.1	1898.0	1733.3	250.7	759.2	355.8	355.8
	4.1	2.7	3.9	4.3	3.9	.6	1.7	4.7	
CROPLAND 3	24188.5	23122.2	22957.4	25243.6	23052.6	24100.3	24100.3	1581.5	1581.5
	2.9	2.8	2.8	3.0	2.8	2.9	2.9	2.6	
CROPLAND 4	5417.7	5417.7	5160.4	5674.7	5182.2	2269.9	2269.9	3449.6	3449.6
	1.6	1.6	1.5	1.6	1.5	.7	.7	0.8	
CROPLAND 5	1651.4	1374.1	1573.1	1729.7	1579.6	1651.4	1651.4	748.3	748.3
	1.7	1.4	1.7	1.8	1.7	1.7	1.7	5.1	
CROPLAND 8	173.5	173.5	165.3	181.7	165.9	72.7	72.7	148.3	148.3
	1.2	1.2	1.1	1.2	1.1	.5	.5	0.0	
CROPLAND	46575.4	36585.6	44366.5	46782.5	44520.4	30203.8	34476.4	14569.3	
	3.2	2.5	3.0	3.3	3.1	2.3	2.4		
WETLANDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	257.6 (ACRES)				
	0.0	0.0 (ACRES)	0.0 (ACRES)	0.0 (ACRES)					
	0.0	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)	0.0 (TONS/ACRE)					
PASTURE	24.3	24.3 (TONS)	24.3 (TONS)	1601.2 (ACRES)					
	440.8	440.8 (ACRES)	440.8 (ACRES)						
	.05	.05 (TONS/ACRE)	.05 (TONS/ACRE)						
WOODLAND	132.5	132.5 (TONS)	132.5 (TONS)	0.0 (ACRES)					
	2194.3	2194.3 (ACRES)	2194.3 (ACRES)						
	.06	.06 (TONS/ACRE)	.06 (TONS/ACRE)						
SUMMARY TOTAL POTENTIAL GROSS EROSION	46732.2	36742.4	44523.3	46541.3	44707.2	30358.6	34633.2	17288.4	
	2.7	2.1	2.6	2.8	2.6	1.8	2.3		
PERCENT REDUCTION:	8.0	21.4	4.7	-4.7	4.3	35.0	25.9		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

SCENARIO: DIRECT DRAINAGE MAINFILL

COUNTY: SHELBY, OHIO

LAND USE	EXISTING POTENTIAL GROSS LOSS TO TILLAGE AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER CROPPING (TONS)	MAXIMUM TILLAGE REDUCTION (TONS)	REDUCED TILLAGE: CHISEL PLOUGH AREA (TONS)	SOIL MOIST. SAVED LAND AREA (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
CROPLAND 1	7429.4	5903.6	7446.5	4425.2	1319.1	3999.3	499.6
SWG	3.3	2.5	3.2	3.6	.6	1.7	5.1
CROPLAND 2	4397.9	9397.9	4038.2	10113.0	1583.3	4401.1	0.0
SWG	1.2	1.2	1.1	1.1	.2	.5	0.0
CROPLAND 3	21202.7	21202.7	20165.6	22815.2	21202.7	21202.7	0.0
SWG	1.6	1.6	1.5	1.7	1.5	1.5	0.0
CROPLAND 4	10672.6	10672.6	10150.6	11444.7	10498.6	5452.3	0.0
SWG	1.0	1.0	1.0	1.1	1.0	.5	0.0
CROPLAND 5	989.3	989.3	940.9	1044.6	973.2	989.3	0.0
SWG	.8	.8	.8	.9	.8	.3	0.3
CROPLAND 6	48146.1	47541.4	53903.4	49275.3	30546.7	36445.2	35409.6
SWG	1.4	1.4	1.5	1.5	1.4	1.0	1.0
VINEYARDS AND ORCH.	1187.2	1187.2 (TONS)	JATER AREA ONLY	826.7 (ACRES)			
SWG	2043.7	2043.7 (ACRES)	AREA ONLY				
SWG	.58	.58 (TONS/ACRE)					
PASTURE AND PASTURE	432.3	432.3 (TONS)	OTHER LAND USE AREA	18416.7 (ACRES)			
SWG	10669.3	10669.3 (ACRES)					
SWG	.02	.02 (TONS/ACRE)					
WOODLAND	595.3	595.3 (TONS)	MISSING DATA	18967.8 (ACRES)			
SWG	14788.5	14788.5 (ACRES)					
SWG	.04	.04 (TONS/ACRE)					
3-MONTH TOTAL POTENTIAL GROSS EROSION	64298.1	63192.6	71129.1	65263.0	41524.8	49001.3	89878.9
SWG	.7	.7	.9	.7	.5	.5	.5
PERCENT REDUCTION:	0.0	3.7	4.7	-7.3	1.6	37.4	26.1

Lake Erie Wastewater Management Study
 Land Management Alternatives : Best Management Practice Scenarios

U.S. Army Corps of Engineers, Buffalo District

Basin: Direct Drainage MainPIL

County: 18 Cuyahoga, Ohio

Land Use	Existing Gross Erosion (tons)	Potential Gross Erosion (tons)	Loss to Tilling (tons)	Spring Ploving Only (tons)	Fall Ploving Only (tons)	Winter Crop (tons)	Maximum Tillage Reduction (tons)	Reduced Tillage (tons)	Soil Mgmt. 343P Land (tons)	Existing Soil Loss > 1 Factor (tons/acre)
1. Cropland 1	986.3	586.3	577.9	2.3	667.1	573.6	89.2	288.9	252.6	0.0
346	2.3	2.3	2.3		2.6	2.3	.4	1.1		0.0
2. Cropland 2	972.6	472.6	465.8	1.1	537.7	462.4	71.9	232.9	456.3	0.0
346	1.1	1.1	1.1		1.2	1.1	.2	.5		0.0
3. Cropland 3	1229.4	1229.4	1211.6	1.1	1398.7	1202.7	1229.4	1229.4	1168.2	0.0
346	1.1	1.1	1.1		1.2	1.0	1.1	1.1		0.0
4. Cropland 4	19.8	19.8	19.5	.8	22.5	19.4	9.8	9.8	23.0	0.0
346	.9	.9	.8		1.0	.8	.4	.4		0.0
5. Cropland 5	6.2	6.2	6.1	.3	7.0	6.0	6.2	6.2	23.0	0.0
343	.3	.3	.3		.3	.3	.3	.3		0.0
10. Cropland 10	3887.8	459.3	3831.5	41.7	4423.1	3403.3	591.6	1915.7	91.9	91.9
346	42.3	5.0	41.7		48.1	41.4	6.4	23.3		42.3
1. Vineyards and Orch.	6282.1	2773.6	6112.3	3.1	7056.1	6067.4	1998.1	3682.9	1975.8	
346	3.1	1.4	3.1		3.6	3.1	1.0	1.3		
2. Grassland and Pasture	2742.0	2742.0	2742.0		9538.7	9538.7				
346	.37	.37	.37							
3. Woodland	2688.4	2688.4	2688.4		96216.7	96216.7				
346	.40	.40	.40							
Summary Total Potential Gross Erosion	81062.2	57170.3	80436.4	.7	87013.3	80123.5	51766.2	65506.9	112337.2	
Percent Reduction:	0.0	29.5	.7		-7.3	3.2	36.1	21.7		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 20 LAKE, OHIO													
BASIN: DIRECT DRAINAGE MAINFILL													
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO TILLAGE AND EXISTING JULY (TONS/ACRE)	SOIL SPRING PLOTTING JULY (TONS/ACRE)	FALL PLOTTING JULY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: MISCELLANEOUS (TONS/ACRE)	SOIL MOIST. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (ACRES)				
1 CROPLAND	13625.9	12746.1	13466.6	15379.0	13064.1	1673.4	5896.6	5414.4	1574.3				
346 1	2.5	2.4	2.5	2.4	2.4	.3	1.1		3.5				
2 CROPLAND	12343.7	12343.7	12234.8	13976.9	11476.7	1520.8	5359.0	7577.2	0.0				
346 2	1.6	1.6	1.6	1.9	1.6	.2	.7		0.0				
3 CROPLAND	1496.7	1496.7	1479.2	1649.2	1455.4	1496.7	1496.7	1699.3	0.0				
343 3	.9	.9	.9	1.0	.8	.9	.9		0.0				
4 CROPLAND	237.8	237.8	235.0	268.4	224.1	237.8	237.8	344.5	0.0				
346 5	.7	.7	.7	.4	.7	.7	.7		0.0				
5 CROPLAND	5098.1	166.7	3034.0	3487.7	2963.6	379.5	1337.2	45.9	45.9				
343 10	67.3	3.5	66.3	76.0	54.6	8.3	29.1		67.3				
6 CROPLAND	30834.2	27025.0	30473.6	34801.2	29571.9	5308.2	14327.5	15847.3					
346 10	2.0	1.8	2.0	2.3	2.0	.4	.9						
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	JATER AREA ONLY	1102.2 (ACRES)									
	0.0	0.0 (ACRES)	0.00 (TONS/ACRE)										
7 GRASSLAND AND PASTURE	515.6	515.6 (TONS)	OTHER LAND USE AREA	22733.8 (ACRES)									
	13341.7	13341.7 (ACRES)	.04 (TONS/ACRE)										
8 CROPLAND	1163.5	1163.5 (TONS)	MISSING DATA	3375.6 (ACRES)									
	11983.9	11983.9 (ACRES)	.10 (TONS/ACRE)										
SUMMARY TOTAL POTENTIAL GROSS EROSION	35238.4	31102.9	34839.7	39529.0	33852.6	7571.2	17344.1	43768.2					
	.4	.7	.4	.9	.8	.2	.4						
PERCENT REDUCTION:	0.0	11.7	1.1	-12.2	3.9	74.5	58.5						

LAKE ERIE WASTE-WATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

BASIN: DIRECT DRAINAGE MAINFILL COUNTY: 24 ASHTABULA, OHIO									
LAND USE	EXISTING POT. GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO T AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE REDUCTION (TONS/ACRE)	SCOURED TILLAGE: MISCELLANEOUS PLOW AREA (TONS/ACRE)	2011 46MT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (ACRES)	4 TONS/ACRE
1 CROPLAND	1981.7	1901.7	1870.8	2282.1	1901.7	1679.9	1997.8	0.0	0.0
2 CROPLAND	8675.0	7250.7	8530.4	10410.0	8675.0	7662.9	7210.5	899.6	1.7
3 CROPLAND	42.0	42.0	42.1	51.3	42.0	42.0	23.0	0.0	0.0
4 CROPLAND	279.3	279.3	274.7	335.2	279.3	279.3	964.5	0.0	0.0
5 CROPLAND	23.3	23.3	22.9	27.9	23.3	20.3	114.8	0.0	0.0
6 CROPLAND	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0
7 CROPLAND	9497.8	10740.1	13106.5	10922.1	9497.8	9489.9	10310.5	0.0	0.0
8 VINEYARDS AND ORCH.	3858.7	2636.3 (TONS)	4747.0 (TONS)	206.7 (ACRES)	206.7 (ACRES)				
9 PASTURE AND PASTURE	467.8	467.8 (TONS)	467.8 (TONS)	11389.5 (ACRES)	11389.5 (ACRES)				
10 PASTURE	12506.8	12506.8 (ACRES)	12506.8 (ACRES)						
11 PASTURE	1194.3	1194.3 (TONS)	1194.3 (TONS)	3306.7 (ACRES)	3306.7 (ACRES)				
12 PASTURE	17796.7	17796.7 (ACRES)	17796.7 (ACRES)						
13 PASTURE	16635.4	16635.4 (TONS)	16635.4 (TONS)	19146.3	16635.4	9998.5	46684.7	15504.9	0.3
14 PASTURE	15382.5	15382.5 (TONS)	15382.5 (TONS)	0.4	0.4	0.2			
15 PASTURE	9.1	9.1	1.2	-14.5	0.0	40.7	7.3		
16 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
61 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
63 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100 PASTURE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

343IN: DIRECT DRAINAGE MAINFILL COUNTY: 2nd (P.C.), PENNSYLVANIA

LAND USE	EXISTING GROSS EROSION (TONS)	POT. REDUCE LOSS TO Y. PLUING ONLY (TONS)	SOIL SPRING PLUING ONLY (TONS)	FALL PLUING ONLY (TONS)	WINTER COVER (TONS)	MAXIMUM REDUCTION FILLAGE (TONS)	REDUCED FILLAGE: CHISEL PLOW AREA (TONS)	SOIL MGMT. 3RD PL. LAND (ACRES)	EXISTING SOIL LOSS FACTOR (ACRES)
346 1	4138.5	4123.5	4049.5	4716.4	4093.5	4999.0	24027.4	17411.3	49.0
346 2	5438.6	5592.9	5713.0	6659.4	5776.8	12556.7	33903.1	21181.3	1146.6
346 3	11948.8	72619.2	116929.0	136203.0	118213.9	119498.8	119498.8	24206.4	24206.4
346 4	2610.5	2610.5	2554.4	2975.5	2592.5	1515.0	1515.0	3054.2	0.0
346 5	617.6	617.6	604.3	703.9	610.9	617.6	617.6	1582.4	0.0
346 10	37247.2	6770.7	36446.2	42453.4	36446.7	4010.1	21627.4	2243.7	2243.7
346 10	16.6	3.0	16.2	18.9	16.4	3.6	3.6	16.6	16.6
346 10	259743.2	179779.2	250157.5	296051.4	256950.3	151098.0	201190.1	69399.9	69399.9
346 10	3.7	2.6	3.6	4.2	3.7	2.2	2.2	2.9	2.9
VINEYARDS AND ORCH.	10284.1	5567.4 (TONS)	4478.4 (TONS)	4478.4 (TONS)	3123.4 (ACRES)				
GRASSLAND AND PASTURE	1935.9	1935.9 (TONS)	15923.4 (ACRES)	15923.4 (ACRES)	44656.8 (ACRES)				
346 10	16583.1	16583.1 (TONS)	16583.1 (TONS)	16583.1 (TONS)	16583.1 (ACRES)				
346 10	67202.5	67202.5 (ACRES)	67202.5 (ACRES)	67202.5 (ACRES)	67202.5 (ACRES)				
346 10	25	25 (TONS/ACRE)	25 (TONS/ACRE)	25 (TONS/ACRE)	25 (TONS/ACRE)				
SUMMARY TOTAL	308157.5	302192.2	346933.5	305174.8	192120.0	245624.9	166647.2		
POTENTIAL GROSS EROSION	222750.6	1.3	1.3	1.3	1.3	1.3	1.3		
PERCENT REDUCTION:	0.0	27.7	1.9	-12.6	1.0	37.7	28.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES : PEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 21 CRAWFORD, PENNSYLVANIA									
30339: DIRECT DRAINAGE MAINFILL									
LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	REDUCE LOSS TO Y PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS/ACRE)	SOIL WASH GROUP LAND (ACRES)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)	
200LAND 1	283.5	110.6	198.4	236.6	203.5	130.3	39.3	39.3	
546	5.2	3.0	5.0	6.0	5.2	3.4	5.2		
200LAND 2	232.1	159.1	226.3	269.4	232.1	153.4	79.1	79.1	
546	2.9	2.0	2.9	3.4	2.9	1.9	2.9		
200LAND	435.6	276.7	424.7	506.4	435.6	288.6	118.6		
	3.7	2.3	3.6	4.3	3.7	2.4			
WINEYARDS AND ORCH.	0.0	0.0 (TONS)	WATER AREA ONLY (TONS/ACRE)		0.0 (ACRES)				
	0.0	0.0 (ACRES)							
	0.00	0.00 (TONS/ACRE)							
GRASSLAND AND PASTURE	0.0	0.0 (TONS)	OTHER LAND USE AREA (TONS/ACRE)		158.1 (ACRES)				
	0.0	0.0 (ACRES)							
	0.00	0.00 (TONS/ACRE)							
WOODLAND	56.3	56.3 (TONS)	MISSING DATA		0.0 (ACRES)				
	316.3	316.3 (ACRES)							
	1.0	1.0 (TONS/ACRE)							
SUMMARY TOTAL POTENTIAL GROSS EROSION	991.9	481.0	562.7	491.9	176.1	344.3	434.9		
	2.2	1.3	1.3	1.1	.4	.3			
PERCENT REDUCTION:	0.0	32.3	2.2	-14.4	0.0	64.2	29.3		

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

181510: DIRECT DRAINAGE MAINTENANCE

CLIMATE: 24 CLIMATE, NEW YORK

LAND USE	EXISTING POTENTIAL GROSS EROSION (TONS/ACRE)	LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROP (TONS/ACRE)	REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE CHISEL PLOW AREA (ACRES)	SOIL LOSS & FACTOR (TONS/ACRE)
1	114614.3	87306.7	111106.2	114614.3	15936.4	44444.3	24933.2
2	40402.8	40402.8	46171.3	40402.8	5637.2	15837.3	17991.7
3	143505.8	87667.8	141617.6	143505.8	143505.8	143505.3	29222.6
4	1981.5	1981.5	2242.2	1981.5	769.1	769.1	1539.3
5	1887.6	1668.1	1862.8	1887.6	1887.6	1887.5	711.7
10	42077.3	4714.8	41523.7	42077.3	5813.3	16332.5	1579.0
10	344869.3	224141.7	340331.6	344869.3	173447.9	222821.3	30195.4
VINEYARDS AND ORCH.	1772.4	1601.2	1601.2	3113.5			
PASTURE	1035.8	11342.1	11342.1	23573.8			
WOODLAND	17961.2	73367.8	73367.8	29178.2			
SUMMARY TOTAL POTENTIAL GROSS EROSION	429712.3	287828.8	424379.5	429712.3	228291.5	286277.2	135684.7
PERCENT REDUCTION:	0.0	33.0	1.2	-12.4	0.0	46.4	33.0

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: DIRECT DRAINAGE MAINPIL									
COUNTY: 30 CATTARAUGUS, NY (INVALID \$DLS)									
LAND USE	EXISTING POTENTIAL GROSS EROSION	LOSS TO PLOWING AND EXISTING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER CROPS (TONS/ACRE)	MAXIMUM REDUCTION TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (ACRES)	EXISTING SOIL LOSS (TONS/ACRE)	EXISTING SOIL LOSS (TONS/ACRE)
200PLAND	2297.3	1534.5	2247.1	2599.6	2297.3	317.4	891.7	511.5	511.5
546	4.5	3.0	4.4	5.1	4.5	4.6	1.7	4.5	4.5
200PLAND	6372.2	1467.8	6288.3	7210.6	6372.2	5372.2	6372.2	189.3	489.3
546	13.0	3.0	12.9	14.7	13.0	13.0	13.0	13.0	13.0
200PLAND	5408.3	408.3	5329.3	6116.3	5408.3	746.1	2096.2	133.4	133.4
546	48.5	3.0	39.9	45.8	40.5	5.6	13.7	48.5	48.5
200PLAND	14069.8	3402.6	13844.7	15921.3	14069.8	7435.7	9360.1	1134.2	1134.2
546	12.4	3.0	12.2	14.0	12.4	6.6	9.3	9.3	9.3
VINEYARDS AND ORCH.	0.0	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)	0.0 (TONS)
BRASSLAND AND PASTURE	248.3	248.3 (TONS)	248.3 (TONS)	248.3 (TONS)	248.3 (TONS)	248.3 (TONS)	248.3 (TONS)	248.3 (TONS)	248.3 (TONS)
546	333.6	333.6 (TONS)	333.6 (TONS)	333.6 (TONS)	333.6 (TONS)	333.6 (TONS)	333.6 (TONS)	333.6 (TONS)	333.6 (TONS)
WOODLAND	2280.5	2280.5 (TONS)	2280.5 (TONS)	2280.5 (TONS)	2280.5 (TONS)	2280.5 (TONS)	2280.5 (TONS)	2280.5 (TONS)	2280.5 (TONS)
546	2513.1	2513.1 (TONS)	2513.1 (TONS)	2513.1 (TONS)	2513.1 (TONS)	2513.1 (TONS)	2513.1 (TONS)	2513.1 (TONS)	2513.1 (TONS)
SUMMARY TOTAL POTENTIAL GROSS EROSION	18175.1	6494.8	17972.4	24202.2	18175.1	10910.9	13018.1	4359.0	4359.0
PERCENT REDUCTION:	0.0	64.3	1.1	-11.2	0.0	40.0	23.1	23.1	23.1

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

COUNTY: 29 (RIE, NEW YORK)

343M: DIRECT DRAINAGE MAINFILL

LAND USE	EXISTING POTENTIAL LOSS TO FLOODING AND EXISTING ONLY (TONS/ACRE)	FALL PLOUING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	EXISTING SOIL LOSS FACTOR (TONS/ACRE)
CROPLAND 1	59706.9	57200.3	51302.3	68136.0	59706.9	2135.0
346	2.4	2.5	2.3	2.4	2.4	1.1
CROPLAND 2	19051.2	19051.2	21740.4	19051.2	19051.2	0.0
346	1.4	1.4	1.4	1.4	1.4	0.0
CROPLAND 3	43630.0	43630.0	42503.4	43630.0	43630.0	0.0
346	1.7	1.7	1.7	1.7	1.7	0.0
CROPLAND 4	684.4	684.4	684.4	684.4	684.4	0.0
346	.7	.7	.7	.7	.7	0.0
CROPLAND 5	439.3	439.3	429.0	439.3	439.3	0.0
346	.3	.3	.3	.3	.3	0.0
CROPLAND 10	37614.1	7027.7	36729.0	37614.1	37614.1	2579.8
346	14.6	2.7	14.2	14.6	14.6	10.6
CROPLAND	161125.9	128122.9	157334.7	161125.9	161125.9	63933.3
346	2.3	1.9	2.3	2.3	2.3	1.9
VINEYARDS AND ORCH.	2696.8	2065.0 (TONS)	1779.2 (ACRES)	2696.8 (ACRES)	2696.8 (ACRES)	
346	1.52	1.16 (TONS/ACRE)	1.16 (TONS/ACRE)	1.52	1.52	
GRASSLAND AND PASTURE	1374.6	1374.6 (TONS)	10258.5 (ACRES)	1374.6 (TONS)	1374.6 (TONS)	
346	.08	.08 (TONS/ACRE)	.08 (TONS/ACRE)	.08	.08	
WOODLAND	10702.9	10702.9 (TONS)	47859.2 (ACRES)	10702.9 (TONS)	10702.9 (TONS)	
346	.22	.22 (TONS/ACRE)	.22 (TONS/ACRE)	.22	.22	
SUMMARY TOTAL POTENTIAL GROSS EROSION	210628.3	171109.5	206088.5	237856.4	103965.9	163748.9
PERCENT REDUCTION:	0.0	18.6	2.2	-12.9	50.7	16.4

LAKE ERIE WASTEWATER MANAGEMENT STUDY
LAND MANAGEMENT ALTERNATIVES : BEST MANAGEMENT PRACTICE SCENARIOS

U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT

BASIN: DIRECT DRAINAGE MAINFILL												COUNTY: 62 ALL IN BASIN											
LAND USE	EXISTING GROSS EROSION (TONS/ACRE)	POT. LOSS TO T. PLOWING AND EXISTING ONLY (TONS/ACRE)	SOIL SPRING PLOWING ONLY (TONS/ACRE)	FALL PLOWING ONLY (TONS/ACRE)	WINTER COVER CROP (TONS/ACRE)	MAXIMUM TILLAGE (TONS/ACRE)	TILLAGE REDUCTION (TONS/ACRE)	REDUCED TILLAGE (TONS/ACRE)	CHISEL PLOW AREA (ACRES)	SOIL MGMT. GROUP LAND AREA (ACRES)	EXISTING SOIL LOSS > 7 FACTOR (TONS/ACRE)												
230PLAND 1	534177.1	4.0	4.0	530922.4	712193.4	536283.4	97969.4	300500.4	163331.6	163331.6	66719.4												
546	1	4.0	2.9	3.8	4.3	3.9	.6	1.9	5.6	5.6	5.6												
230PLAND 2	573410.4	1.5	1.4	550914.5	520533.2	559991.6	90744.2	260963.9	370109.6	370109.6	39303.1												
546	2	1.5	1.4	1.5	1.7	1.5	.2	.7	4.2	4.2	4.2												
230PLAND 3	774304.2	4.8	2.3	745955.4	442972.0	752766.6	774304.2	774304.2	195716.9	195716.9	35646.8												
546	3	4.8	2.3	3.8	4.3	3.8	4.0	4.0	6.3	6.3	6.3												
230PLAND 4	184154.2	.9	.9	175090.4	193200.5	178029.1	79427.0	79427.0	205331.4	205331.4	0.0												
546	4	.9	.9	.8	.9	.9	.4	.4	.4	.4	0.0												
230PLAND 5	155602.9	2.7	.9	148802.0	165850.0	148416.2	155602.9	155602.9	57361.6	57361.6	6042.3												
546	5	2.7	.9	2.6	2.9	2.6	2.7	2.7	18.2	18.2	18.2												
230PLAND 6	23.3	.2	.2	22.9	27.9	23.3	9.3	20.5	114.0	114.0	0.0												
546	6	.2	.2	.2	.2	.2	.1	.2	.2	.2	0.0												
230PLAND 8	255281.7	1.0	.9	241735.6	246601.4	241600.9	104890.3	104890.3	257322.3	257322.3	0.0												
546	8	1.0	.9	.9	1.0	.9	.4	.4	.4	.4	0.0												
230PLAND 9	2553.0	.8	.3	2414.5	2708.8	2408.7	2553.0	2553.0	3317.9	3317.9	89.0												
546	9	.8	.3	.7	.8	.7	.8	.3	.3	.3	20.6												
230PLAND 10	158468.7	22.5	3.0	154504.2	177843.6	156742.1	20241.9	83072.7	7052.1	7052.1	7052.1												
546	10	22.5	3.0	21.9	25.2	22.2	4.0	11.9	11.9	11.9	22.5												
230PLAND 11	2758135.9	2.2	1.6	2650442.4	2984030.9	2676171.9	1333902.2	1770379.9	1253457.9	1253457.9	0.0												
546	11	2.2	1.6	2.1	2.4	2.1	1.1	1.1	1.4	1.4	0.0												
VINEYARDS AND ORCH.	27525.3	1.62	1.62	2708.8	34304.2	34304.2	34304.2	34304.2	34304.2	34304.2	0.0												
546	12	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	0.0												
GRASSLAND AND PASTURE	13696.8	.05	.05	13693.3	458690.2	458690.2	458690.2	458690.2	458690.2	458690.2	0.0												
546	13	.05	.05	.05	.05	.05	.05	.05	.05	.05	0.0												
WOODLAND	59766.4	.17	.17	59766.4	721494.2	721494.2	721494.2	721494.2	721494.2	721494.2	0.0												
546	14	.17	.17	.17	.17	.17	.17	.17	.17	.17	0.0												
SUMMARY TOTAL POTENTIAL GROSS EROSION												3941327.3											
PERCENT REDUCTION:												0.0											

Lake Erie Drainage Basin Summary

LAKE ERIE WASTEWATER MANAGEMENT STUDY U.S. ARMY CORPS OF ENGINEERS, BUFFALO DISTRICT
LAND MANAGEMENT ALTERNATIVES: BEST MANAGEMENT PRACTICE SCENARIOS

COUNTY: 62 ALL IN BASIN									
BASIN: ALL BASINS IN DATASET	LAND USE	EXISTING POT. REDUCED GROSS EROSION (TONS)	LOSS TO T. PLOWING AND EXISTING ONLY (TONS)	FALL PLOWING ONLY (TONS)	WINTER COVER CRCP (TONS)	MAXIMUM REDUCTION TILLAGE (TONS)	REDUCED TILLAGE: CHISEL PLOW AREA (TONS)	SOIL WASH GROUP LAVO AREA (ACRES)	EXISTING SOIL LOSS > T FACTOR (TONS/ACRE)
1	346	7371339.0	3225409.2	704922.0	7475709.0	7108494.0	1100263.0	3315495.0	649445.7
2	346	6395781.0	4368725.0	6098125.0	6804174.0	6164433.0	946634.2	2845956.0	934154.9
3	346	2079468.0	1512629.0	1944144.0	2242209.0	2015742.0	2079468.0	3079469.0	277222.3
4	346	924982.4	924724.4	474445.2	974326.1	445460.1	390487.9	390487.9	822.9
5	346	483023.1	309716.5	460680.2	514419.5	463156.6	443023.1	483023.1	11633.7
6	346	23.3	23.3	22.9	27.4	23.3	9.3	20.3	0.0
7	346	6685.8	4439.5	6261.7	6799.8	6466.9	6685.8	6685.8	49.0
8	346	880211.4	880211.4	824999.4	916476.5	824363.2	353427.2	353427.2	21.6
9	346	363909.6	308663.3	342895.3	376714.3	346421.4	363909.6	363909.6	0.0
10	346	1262413.0	106034.4	1214235.0	1376230.0	1233730.0	200054.7	508412.4	1698.2
11	346	19767836.6	11641480.9	14474730.7	21092446.1	19053690.5	520362.8	10424105.3	32973.6
12	346	43329.5	31054.3	31054.3	208774.7	208774.7	0.9	1.7	34.3
13	346	27910.6	27910.6	27910.6	27910.6	27910.6	0.9	1.7	34.3
14	346	81979.6	81979.6	81979.6	81979.6	81979.6	0.9	1.7	34.3
15	346	946526.7	946526.7	946526.7	946526.7	946526.7	0.9	1.7	34.3
16	346	270283.4	264528.4	264528.4	264528.4	264528.4	0.9	1.7	34.3
17	346	1413491.0	1413491.0	1413491.0	1413491.0	1413491.0	0.9	1.7	34.3
18	346	26884392.4	16055473.9	25694926.1	24650540.3	25732274.3	9426550.9	14431607.4	11557119.5
19	346	2.3	1.4	2.2	2.5	2.2	0.7	1.2	0.0
20	346	9.0	40.2	4.4	-6.5	3.5	64.7	45.3	0.0