

**APPLICATION OF THE UNIVERSAL SOIL LOSS EQUATION  
TO THE ESTIMATION OF NONPOINT SOURCES OF  
POLLUTANT LOADINGS  
TO THE GREAT LAKES**

by

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## **DISCLAIMER**

The work discussed in this document was carried out in support of the efforts of the Pollution from Land Use Activities Reference Group, an organization of the International Joint Commission, established under the Canada-United States Great Lakes Water Quality Agreement of 1972.

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Findings and conclusions are those of the authors and do not necessarily reflect the views of the Reference Group or its recommendations to the Commission.



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## LIST OF SYMBOLS AND ABBREVIATIONS

a	-	annum, year
CNI	-	Conservation Needs Inventory (U.S.)
EPA	-	Environmental Protection Agency (U.S.)
ha	-	hectare
IJC	-	International Joint Commission
kg	-	kilogram
km	-	kilometer
L	-	liter
mg	-	milligram
MRI	-	Midwest Research Institute
P	-	phosphorus
PCBs	-	polychlorinated biphenyls
PLUARG	-	Pollution from Land Use Activities Reference Group (International Reference Group on Great Lakes Pollution from Land Use Activities)
$S_d$	-	Sediment Delivery Ratio
SMSA	-	Standard Metropolitan Statistical Area
STP	-	Sewage Treatment Plant
t	-	tonne, metric ton
USLE	-	Universal Soil Loss Equation



## INTRODUCTION

The International Reference Group on Pollution of the Great Lakes from Land Use Activities (PLUARG), was established by the International Joint Commission (IJC) pursuant to the 1972 United States/Canada Great Lakes Water Quality Agreement in order to investigate pollution of the Great Lakes System from agriculture, forestry and other land use activities.

The objectives of the PLUARG study were:

- to determine and evaluate the causes, extent, and locality of pollution from land drainage;
- 
- to gain an understanding of the relative importance of various land uses in terms of their diffuse pollutant loads to the Great Lakes;
- 
- to examine the effects of the diffuse pollutant loads on Great Lakes Water Quality; and
- 
- to determine the most practicable remedial measures for decreasing the diffuse pollutant loads and the estimated costs of these measures.

A great deal of information on the Great Lakes and data on nonpoint source pollution were generated between 1973, the start of the study and 1978, when PLUARG submitted its final report to the Commission.

Since it was not possible to study the entire Great Lakes Basin in detail, one of the major problems faced by PLUARG was the extrapolation of pollutant loads from typical land uses determined from studies of specific watersheds or subwatersheds to the entire basin. The Reference Group decided to rely on computer modelling techniques to provide a means of assessing the relative importance of nonpoint sources as compared to other sources of pollutant inputs to the lakes. In addition, modelling provided an estimate of lake-wide pollutant load reductions and probable costs for various remedial measures or control strategies.

This report describes an approach which can be used to provide a "first-cut" estimation of the contributions of various land use activities to the measured "diffuse" tributary loadings to the Great Lakes.

A more comprehensive data management base and "overview modelling" process' were also developed to assist PLUARG in achieving its goal of determining the relative importance of all pollutant sources and in developing plans for pollution abatement from land sources. Overview

modelling provided a means of comparing pollutant inputs to the lakes as well as a methodology for measuring the effectiveness of alternative remedial programs applied to urban nonpoint, rural nonpoint, and municipal point sources.

This report describes the preliminary assessment of nonpoint sources of pollutant loadings to the Great Lakes using a computer model developed by the Midwest Research Institute (MRI) for the United States EPA based on the Universal Soil Loss Equation (USLE). This model was also used to make a preliminary analysis of the feasibility of achieving reductions in nonpoint source phosphorus loads and estimates of the costs. The more comprehensive "overview model", based on the unit area loads developed from the PLUARG Task C pilot watershed studies and land characteristics in the basin was also developed to investigate cost-effective alternative programs for specific watersheds. The details of the latter model and its application are reported in another PLUARG Technical Report - "Management Information Base and Overview Modelling" and the PLUARG Final Report <sup>2</sup> - "Environmental Management Strategy for the Great Lakes System".

## METHODOLOGY

### DESCRIPTION OF "NONPOINT CALCULATOR" AND INPUT DATA

The MRI "Nonpoint Calculator" was used to estimate the soil loss from rural and urban land in the Great Lakes Basin. The Great Lakes Basin was divided into 27 river basin groups, 15 in the United States and 12 in the Canadian portion of the basin (Figure 1) for this analysis. The measured diffuse tributary loadings reported by PLUARG were then allocated to the various land uses in proportion to their soil losses as computed by the MRI "Nonpoint Calculator".

Soil loss from both urban and non-urban areas was considered. Other pollutants are assumed to be transported along with sediment in the solid phase. Soil loss for non-urban areas is estimated using the Universal Soil Loss Equation (USLE)<sup>3</sup> and no attempt is made to estimate the fraction of sediment or pollutants actually reaching the lakes. Because of the nature of the USLE, the estimates are long-term (on the order of 20 years), average, annual loads.

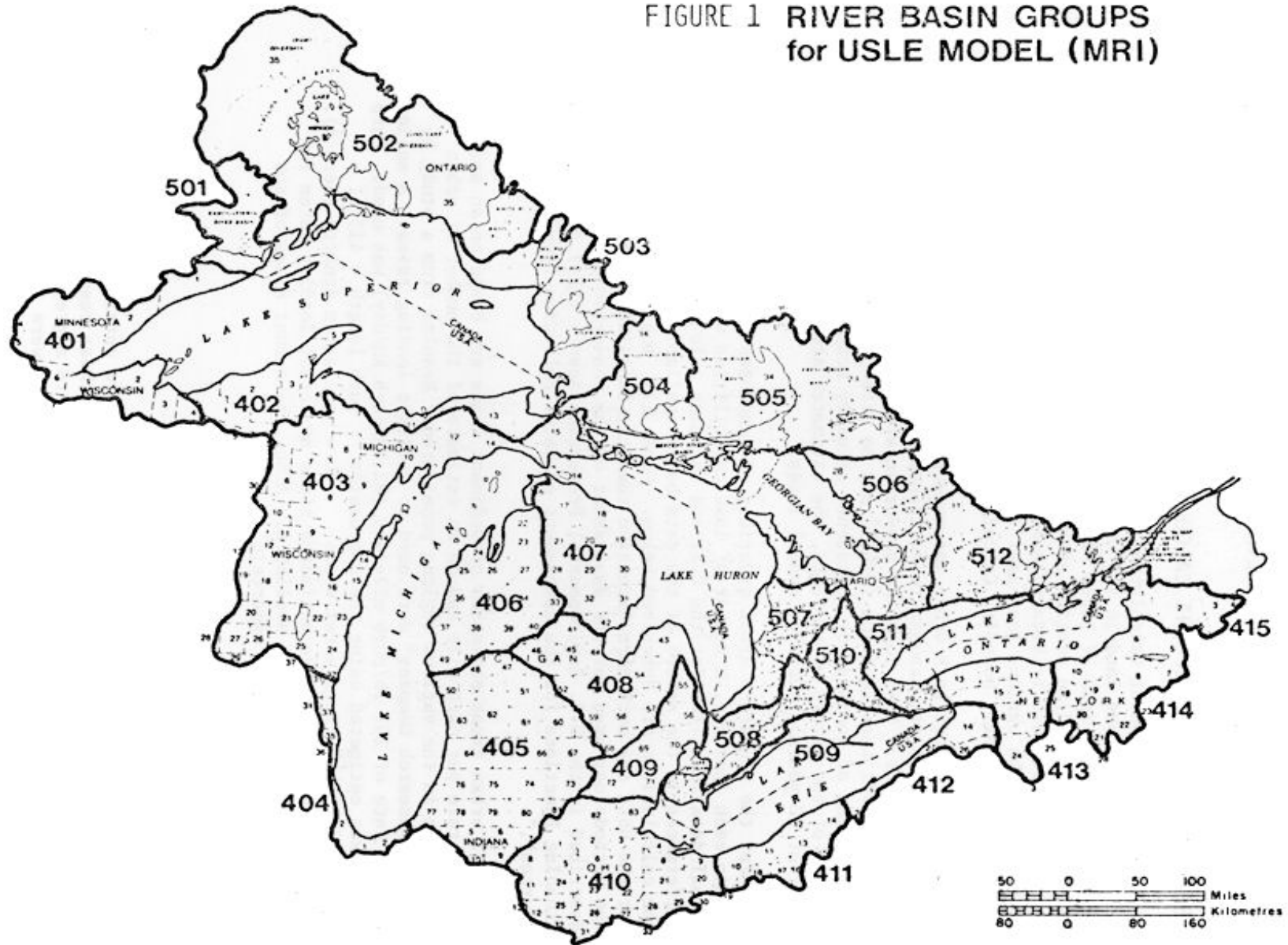
For the non-urban areas a variety of land uses were considered, and within each land use, a number of land capabilities were allowed. The actual details differ for the U.S. and Canadian calculations because of differences in the nature of the data bases available. The details of the calculations are described below. Generally, the U.S. data parameters for the USLE are much more extensive than the Canadian. The details of the methodology used for the assessment of the non-urban areas are described in the U.S. Environmental Protection Agency (EPA) Report, "Loading Functions for the Assessment of Water Pollution from Nonpoint Sources".<sup>4</sup>

For urban areas estimates of sediment loads are based on an assumed loading rate per curb mile and on an estimate of the number of urban curb miles in the various regions considered. Results from a study by the URS Research Company<sup>5</sup> were used to estimate loading rates. A solids loading rate of 291 lb/curb mile/day (82 kg/curb km/day) was used. Curb length was estimated using the expression  $\text{curb length} = 413.11 - 352.66 (0.829)^{\text{PD}}$  (feet/acre), where PD = population density ( $\text{acre}^{-1}$ ). The urban loads are crude estimates since no actual loading rates for the areas of interest are available. Also, the actual sizes of the urban areas are somewhat uncertain.

### U.S. PORTION OF BASIN NON-URBAN AREAS

For the U.S. side of the lakes, results were obtained for the 15 water resource subbasin 401 to 415. To obtain these results counties and portions of counties within the subbasin were aggregated to give totals for the subbasin. The fractional counties were included to allow adjustment to the hydrological boundaries of each subbasin. The counties used for each subbasin are listed in Table 1,

FIGURE 1 RIVER BASIN GROUPS  
for USLE MODEL (MRI)





along with the fraction of each county contained in each subbasin. The USLE factors and land use information were developed utilizing a national data base which MRI developed under EPA sponsorship<sup>6</sup>.

The 16 land uses, Table 2, and 29 land capability classes and subclasses listed in Table 3 were used. With the exception of land use "12", these are standard Conservation Needs Inventory (CNI) classifications. Land use "12" is "Federal Forest"; this category requires some explanation. The CNI data base does not account for all land in a given county. In particular, federally owned lands and urban areas are not included. In a number of the subbasins there is a considerable discrepancy between the total area of the subbasin and the total CNI area. Therefore, a new land use, federal forest, was included to account for the missing non-urban area. The area of federal forest in each subbasin was assumed to be equal to the area of the subbasin minus the total CNI area minus the urban area taken from the PLUARG Task B study<sup>8</sup>. If this area was negative, it was set to zero. The area in land use "12" were assumed to have the same characteristics as CNI commercial forest. That is, the land was distributed in the same way among land capability classes and subclasses as is land use "15", and the same practice, cover, and erodibility factors were used for land use "12" as for "15".

Detailed listings of the USLE parameters, and land use data for each subbasin are listed in Appendix A.

## URBAN AREAS

Estimates of urban areas and populations, Table 4, with the exception of subbasin 404, are from the PLUARG Task B study<sup>8</sup>. The populations are the non-farm populations for 1970 from the same source<sup>8</sup>. For subbasin 404 the urban area was approximated by the drainage area of the subbasin less the total CNI area. The population was assumed to be the PLUARG Task B non-farm population less the population for the Chicago SMSA, which does not drain into Lake Michigan.

The values in Table 4 were used to determine curb lengths for the various subbasins and the approach outlined above was then used to estimate urban, non-point loads.

## CANADIAN PORTION OF BASIN RURAL AND URBAN AREAS

Twelve subbasins were considered for the Canadian side of the basin (Table 5) labelled 501 to 512 and shown on Figure 1. Table 6 lists the land uses and capability classes used for the Canadian calculations. Factors for the USLE were developed by the IJC Great Lakes Regional Office in consultation with Dr. G. Wall, University of Guelph. Land use information was obtained from PLUARG Task B<sup>10, 9</sup>. In the analysis on the Canadian side of the Great Lakes only 7 land uses and 7 land capability classes were considered for use with the nonpoint calculator, whereas on the U.S. side 16 land uses and 29 land capability classes were used. Thus the Canadian data are not as finely tuned as are the U.S. data.

**TABLE 1: Subbasins For U.S. Portion Of Great Lakes Basin**

TIPS Code	County	State	Portion of County in Subbasin, %	FIPS Code	County	State	Portion of County in Subbasin, %
401 WESTERN LAKE SUPERIOR			405 SOUTHEASTERN LAKE MICHIGAN				
27017	Carlton	MN	50.0	18039	Elkhart	IN	100.0
27031	Cook	MN	95.0	18085	Kosciusko	IN	15.0
27075	Lake	MN	50.0	18087	Lagrange	IN	100.0
27137	St.Louis	MN	50.0	18113	Noble	IN	70.0
55003	Ashland	WI	50.0	18141	St.Joseph	IN	100.0
55007	Bayfield	WI	80.0	18151	Steuben	IN	70.0
55031	Douglas	WI	50.0	26005	Allegan	MI	100.0
55051	Iron	WI	60.0	26015	Barry	MI	100.0
402 SOUTHERN LAKE SUPERIOR				26021	Berrien	MI	100.0
				26023	Branch	MI	100.0
26003	Alger	MI	50.0	26025	Calhoun	MI	100.0
26013	Baraga	MI	80.0	26027	Cass	MI	100.0
26033	Chippewa	MI	30.0	26037	Clinton	MI	100.0
26053	Gogebic	MI	100.0	26045	Eaton	MI	100.0
26061	Houghton	MI	100.0	26057	Gratiot	MI	60.0
26071	Iron	MI	10.0	26059	Hillsdale	MI	30.0
26083	Keweenaw	MI	100.0	26065	Ingham	MI	100.0
26095	Luce	MI	80.0	26067	Ionia	MI	100.0
26103	Marquette	MI	40.0	26075	Jackson	MI	85.0
26131	Ontonagon	MI	100.0	26077	Kalamazoo	MI	100.0
403 NORTHWESTERN LAKE MICHIGAN				26081	Kent	MI	100.0
				26093	Livingston	MI	30.0
26013	Baraga	MI	20.0	26117	Montcalm	MI	100.0
26043	Dickinson	MI	100.0	26139	Ottawa	MI	100.0
26071	Iron	MI	90.0	26149	St.Joseph	MI	100.0
26109	Menominee	MI	100.0	26155	Shiawassee	MI	35.0
55001	Adams	WI	5.0	26159	Van Buren	MI	100.0
55009	Brown	WI	100.0	406 NORTHEASTERN LAKE MICHIGAN			
55015	Calumet	WI	100.0	26003	Alger	MI	50.0
55021	Columbia	WI	10.0	26009	Antrim	MI	100.0
55029	Door	WI	100.0	26019	Benzie	MI	100.0
55037	Florence	WI	100.0	26029	Charlevoix	MI	90.0
55039	Fond Du Lac	WI	85.0	26035	Clare	MI	40.0
55041	Forest	WI	100.0	26041	Delta	MI	100.0
55047	Green Lake	WI	95.0	26047	Emmet	MI	50.0
55061	Kewaunee	WI	100.0	26055	Grand Traverse	MI	100.0
55067	Langlade	WI	60.0				
55071	Manitowoc	WI	100.0	26073	Isabella	MI	10.0
55073	Marathon	WI	5.0	26079	Kalkaska	MI	100.0
55075	Marinette	WI	100.0	26085	Lake	MI	100.0
55077	Marquette	WI	100.0	26089	Leelanau	MI	100.0
55078	Menominee	WI	100.0	26095	Luce	MI	20.0
55083	Oconto	WI	100.0	26097	Machinac	MI	50.0
55085	Oneida	WI	5.0	26101	Manistee	MI	100.0
55087	Outagamie	WI	100.0	26103	Marquette	MI	60.0
55097	Portage	WI	30.0	26105	Mason	MI	100.0
55115	Shawano	WI	100.0	26107	Mecosta	MI	80.0
55117	Sheboygan	WI	100.0	26113	Missaukee	MI	100.0
55135	Waupaca	WI	100.0	26121	Muskegon	MI	100.0
55137	Waushara	WI	90.0	26123	Newaygo	MI	100.0
55139	Winnebago	WI	100.0	26143	Roscommon	MI	60.0
404 SOUTHWESTERN LAKE MICHIGAN				26153	Schoolcraft	MI	100.0
				26165	Wexford	MI	100.0
17097	Lake	IL	10.0	407 NORTHWESTERN LAKE HURON			
18089	Lake	IN	60.0	26001	Alcona	MI	100.0
18091	Laporte	IN	10.0	26007	Alpena	MI	100.0
18127	Porter	IN	50.0	26011	Arenac	MI	100.0
55059	Kenosha	WI	10.0	26029	Charlevoix	MI	10.0
55079	Milwaukee	WI	100.0	26031	Cheboygan	MI	100.0
55089	Ozaukee	WI	100.0	26033	Chippewa	MI	70.0
55101	Racine	WI	50.0	26039	Crawford	MI	100.0
55131	Washington	WI	70.0	26047	Emmet	MI	50.0
55133	Waukesha	WI	10.0	26069	Iosco	MI	100.0
				26097	Machinac	MI	50.0
				26119	Montmonrency	MI	100.0
				26129	Ogemaw	MI	100.0
				26135	Oscoda	MI	100.0
				26137	Ostego	MI	100.0
				26141	Presque Isle	MI	100.0
				26143	Roscommon	MI	40.0

TABLE 1 (cont'd)  
SUBBASINS FOR U.S. PORTION OF GREAT LAKES BASIN

FIPS Code	County	State	Portion of County in Subbasin, %	FIPS Code	County	State	Portion of County in Subbasin, %
<b>408 SOUTHWESTERN LAKE HURON</b>				<b>411 SOUTHERN LAKE ERIE</b>			
26017	Bay	MI	100.0	39005	Ashland	OH	10.0
26035	Clare	MI	60.0	39007	Ashtabula	OH	85.0
26049	Genesee	MI	100.0	39035	Cuyahoga	OH	100.0
26051	Gladwin	MI	100.0	39055	Geauga	OH	100.0
26057	Gratiot	MI	40.0	39085	Lake	OH	100.0
26063	Huron	MI	100.0	39093	Lorain	OH	100.0
26073	Isabella	MI	90.0	39103	Medina	OH	50.0
26087	Lapeer	MI	70.0	39133	Portage	OH	50.0
26093	Livingston	MI	35.0	39153	Summit	OH	60.0
26107	Mecosta	MI	20.0	39155	Trumbull	OH	10.0
26111	Midland	MI	100.0	<b>412 EASTERN LAKE ERIE</b>			
26125	Oakland	MI	20.0	36063	Niagara	NY	30.0
26145	Saginaw	MI	100.0	36121	Wyoming	NY	20.0
26151	Sanilac	MI	50.0	36009	Cattaraugus	NY	20.0
26155	Shiawassee	MI	65.0	36013	Chautauqua	NY	20.0
26157	Tuscola	MI	100.0	36029	Erie	NY	100.0
<b>409 ST. CLAIR-DETROIT</b>				42039	Crawford	PA	10.0
26075	Jackson	MI	15.0	42049	Erie	PA	50.0
26087	Lapeer	MI	30.0	<b>413 SOUTHERN LAKE ONTARIO</b>			
26093	Livingston	MI	35.0	36003	Allegany	NY	70.0
26099	Macomb	MI	100.0	36037	Genesee	NY	100.0
26125	Oakland	MI	80.0	36051	Livingston	NY	100.0
26147	St. Clair	MI	100.0	36055	Monroe	NY	100.0
26151	Sanilac	MI	50.0	36063	Niagara	NY	70.0
26161	Washtenaw	MI	100.0	36073	Orleans	NY	100.0
26163	Wayne	MI	100.0	36101	Steuben	NY	15.0
<b>410 WESTERN LAKE ERIE</b>				36121	Wyoming	NY	80.0
18001	Adams	IN	60.0	<b>414 SOUTHEASTERN LAKE ONTARIO</b>			
18003	Allen	IN	80.0	36011	Cayuga	NY	100.0
18033	Dekalb	IN	95.0	36045	Jefferson	NY	40.0
18113	Noble	IN	15.0	36049	Lewis	NY	15.0
18151	Steuben	IN	30.0	36053	Madison	NY	40.0
26059	Hillsdale	MI	70.0	36065	Oneida	NY	40.0
26091	Lenawee	MI	100.0	36067	Onondaga	NY	90.0
26115	Monroe	MI	100.0	36069	Ontario	NY	100.0
39003	Allen	OH	100.0	36075	Oswego	NY	100.0
39011	Auglaize	OH	90.0	36097	Schuyler	NY	85.0
30933	Crawford	OH	80.0	36099	Seneca	NY	100.0
39039	Defiance	OH	100.0	36109	Tompkins	NY	90.0
39043	Erie	OH	100.0	36117	Wayne	NY	100.0
39051	Fulton	OH	100.0	36123	Yates	NY	100.0
39063	Hancock	OH	100.0	<b>415 NORTHEASTERN LAKE ONTARIO-ST. LAWRENCE</b>			
39065	Hardin	OH	50.0	36041	Hamilton	NY	10.0
39069	Henry	OH	100.0	36043	Herkimer	NY	50.0
39077	Huron	OH	100.0	36045	Jefferson	NY	60.0
39095	Lucas	OH	100.0	36049	Lewis	NY	85.0
39101	Marion	OH	20.0	36065	Oneida	NY	10.0
39107	Mercer	OH	50.0				
39123	Ottawa	OH	100.0				
39125	Paulding	OH	100.0				
39137	Putnam	OH	100.0				
39143	Sandusky	OH	100.0				
39147	Seneca	OH	100.0				
39161	Van Wert	OH	100.0				
39171	Williams	OH	100.0				
39173	Wood	OH	100.0				
39175	Wyandot	OH	100.0				

**TABLE 2:** Land Uses For The U.S. Portion Of The Basin <sup>3,7</sup>

	Land Uses
1	Corn and Sorghum
2	Other Row Crops
3	Close Grown Crops
4	Summer Fallow
5	Rotated Hay and Pasture
6	Hay Only
7	Conservation Use Only
8	Temporarily Idle
9	Orchards
10	Open Formerly Cropped
11	Pasture
12	Federal Forest
13	Other Farm Land
14	Other Non-farm Land
15	CNI Commercial Forest
16	CNI Noncommercial Forest

**TABLE 3:** Land Capability Classes For The U.S. Portion Of The Basin<sup>7</sup>

Capability Class	Description
I	Soils with few limitations that restrict their use for agricultural uses.
II	Soils with some limitations that reduce the choice of plants or require moderate conservation practices.
III	Soils with severe limitations that reduce the choice of plants or require special conservation practices or both.
IV	Soils with very severe limitations that restrict the choice of plants or require very careful management, or both.
V	Soils that have little or no erosion hazard, but other limitations which limit their use largely to pasture, range, forest, or wildlife habitat.
VI	Soils that have severe limitations that make them generally unsuited to cultivation.
VII	Soils that have very severe limitations that make them unsuited to cultivation.

Capability Subclasses

Subclass e -	erosion hazard
Subclass w -	water hazard
Subclass s -	other unfavorable soil conditions
Subclass c -	climatic limitation

**TABLE 4:** Urban Areas And Populations For U.S. Portion Of Basin<sup>8</sup>

Subbasin	Urban Area (mile <sup>2</sup> )	Urban Population	Urban Population Density (acre <sup>-1</sup> )
401	445.3	328,711	1.15
402	215.6	184,470	1.34
403	718.8	889,642	1.93
404	993.8	2,410,509	3.79
405	1,279.7	2,369,777	2.89
406	645.3	468,182	1.13
407	282.8	100,000	0.55
408	607.8	1,030,792	2.64
409	1,187.5	4,802,696	6.32
410	889.1	1,587,550	2.79
411	951.6	3,076,220	5.05
412	757.8	1,808,819	3.72
413	421.9	923,648	3.42
414	390.6	1,312,604	2.61
415	225.0	202,660	1.41

**TABLE 5:** Subbasins For Canadian Portion Of The Great Lakes Basin

Sub basin	Name
501	Kaministikwia
502	Nipigon
503	Michipicoten
504	St. Mary's
505	French
506	Georgian
507	Huron
508	Thames
509	Erie
510	Grand
511	Ontario
512	Trent

Table 7 lists urban areas, populations and population densities for the 12 Canadian subbasins. These estimates were obtained from PLUARG Task B Studies".

Details of the USLE parameters and land use data for each subbasin in the Canadian drainage area are contained in Appendix B. Land use and land capability data for the Canadian portion of the basin are available in greater detail than presented here. However, it was not possible in the time available for this study to attempt to combine them and develop USLE parameters on a more detailed basis.

**TABLE 6:** Land Uses And Capability Classes For Canadian Portion Of Basin

Land Uses		Land Capability Classes	
1	Orchards, Horticulture	1	No Limitations
2	Cropland	2	Moderate Limitations
3	Improved Pasture	3	Moderately Severe Limitations
4	Unimproved Pasture	4	Severe Limitations
5	Forest	5	Very Severe Limitations
6	Marsh and Swamp	6	Perennial Crops Only
7	Barren	7	Not Capable for Crop Use or Pasture

**TABLE 7:** Urban Areas And Populations For Canadian Portion Of Basin

Subbasin	Urban Area (mile <sup>2</sup> )	Urban Population	Urban Population Density (acre <sup>-1</sup> )
501	25.0	112,000	7.0
502	2.0	22,900	17.9
503	5.9	4,910	1.3
504	15.8	84,900	8.4
505	73.3	235,000	5.0
506	169.5	358,000	3.3
507	57.3	103,000	2.8
508	107.9	518,000	7.5
509	105.3	505,000	7.5
510	109.1	482,000	6.9
511	514.3	3,460,000	10.5
512	95.3	354,000	5.8



## RESULTS

The soil losses determined by the "Nonpoint Calculator" for each of the subwatersheds are listed in Table 8 for the U.S., and Table 9 for the Canadian portions of the Great Lakes Basin. It should be noted that these are rough estimates of sediment yields from sheet and rill erosion. In large watersheds with a small data base this is about the best that can be done but for more precise purposes this model would be suitable.

Also included in Tables 8 and 9 are the total urban and rural land areas in each subbasin. Detailed computer print-out of the fraction of land in each of the 16 land use categories in the U.S. and 7 in Canada and the portion of each in such land capability class are available in Appendix A and B.

The other major part of the computer print-out is the fraction of the total soil loss in each subbasin which arises from each "land use/land capability" combination.

A preliminary analysis of the fraction of soil loss from major land uses, was made by adding the fractions for several related land uses and all land capability classes in these uses. These results are shown in Tables 10 and 11 for the U.S. and Canadian portions of the basin respectively.

This information was then used to determine the relative contribution of each land use to pollutant loads measured at the river mouths. The detailed information in Appendix A and B permits an assessment of the contributions that various land uses on particular land capability classes make to the total soil loss in a particular subbasin.

The information provided by the model is the estimated soil loss from sheet and rill erosion, as determined by the USLE, and does not reflect actual loadings to the streams in the subbasin or that transported by these streams to the Great Lakes. There is provision in the "Non-point Calculator" model to assign a sediment delivery ratio to determine lake loadings. However, for this application of the USLE model it was assumed that the estimate of diffuse pollutant loadings to the lakes from all the tributaries in a particular subbasin based on available monitoring data, arise from the various land used in that basin in proportion to their soil loss as predicted by the USLE.

It is possible, to generate loads of other pollutants by assuming a concentration of that pollutant in eroded sediments. As better data on concentrations of pollutants in sediments are developed and delivery ratios established the model could be used to "predict" the nonpoint loads of other pollutants.

The actual impact of loads originating from urban versus non-urban areas or from various parts of the basin can be significantly different. That is, a given amount of phosphorus from different sources can have a different impact depending upon the actual pathway followed by the nutrient. Nevertheless, all sources have been combined equally. This is primarily due to the difficulty of a more careful analysis given the constraints of the present study.

**TABLE 8:** Rural And Urban Areas And Their Soil Losses As Calculated By The "Nonpoint Calculator" For Each Subbasin In The U.S. Portion Of The Great Lakes Basin

Subbasin	Rural Area (10 <sup>3</sup> hectares)	Urban Area (10 <sup>3</sup> hectares)	Potential Sediment Losses (10 <sup>3</sup> tonnes/annum)
401	2,273	115	1,941
402	1,953	56	1,102
403	4,182	186	12,791
404	306	257	4,458
405	2,998	331	18,279
406	3,287	167	4,535
407	1,830	73	1,551
408	1,926	157	5,443
409	1,038	308	4,626
410	2,698	230	18,960
411	554	246	4,853
412	455	196	2,222
413	895	109	3,778
414	1,664	101	7,847
415	690	58	1,360
<b>Total</b>	<b>26,749</b>	<b>2,590</b>	<b>93,746</b>

**TABLE 9:** Rural And Urban Areas And Their Soil Losses As Calculated By The "Nonpoint Calculator" For Each Subbasin In The Canadian Portion Of The Great Lakes Basin

Subbasin	Rural Area (10 <sup>3</sup> hectares)	Urban Area (10 <sup>3</sup> hectares)	Potential Sediment Losses (10 <sup>3</sup> tonnes/annum)
501	888	6.0	148
502	6,609	0.5	271
503	1,911	1.5	89
504	1,192	4.1	107
505	3,587	19.0	293
506	2,331	43.9	1,515
507	1,078	14.9	4,427
508	909	28.0	2,853
509	611	27.3	2,209
510	660	28.2	4,359
511	675	133.2	3,334
512	1,969	24.7	1,266
<b>Total</b>	<b>21,420</b>	<b>331.30</b>	<b>20,871</b>

For a large portion of the basin land use information is limited. This is apparent in the need for a federal forest classification for the U.S. side and in the very limited land use data for some of the Canadian side.

Urban calculations are very crude. The estimates of urban areas and loading rates, especially the latter, are very approximate.

For non-urban areas, soluble forms of the pollutants have been neglected. All pollutants are assumed to be attached to sediment and transported in the solid phase.

For non-urban areas, the USLE assumes soil loss to be related to rainfall impact. Soil loss associated with snow melt is not considered, although this may be an important mechanism for much of the basin.

Soil loss in non-urban areas is primarily associated with agriculture. Since such uses are reasonably well inventoried our estimates of soil loss should be reasonable, within the intrinsic limitations of the USLE. Addition of the federal forest areas essentially constituted a sensitivity analysis, which shows the results to be rather insensitive to large uncertainties in knowledge about forested areas.

Overall, the results should be valuable as a starting point. A data base is now available which will allow the effects of potential gross changes to be assessed and which should allow a comparison of the relative impacts of urban and rural areas to be made.

In view of the many uncertainties in the loads as described above it was decided not to use the model to generate loads of various pollutants, but as mentioned earlier, utilize the estimated soil loss to apportion the estimated diffuse tributary loadings.

The data base presently available in the "Nonpoint Calculator" does not have sufficient resolution to locate various land uses within the subbasins. The land use-land capability combination and USLE factors have been consolidated over a subbasin. On the U.S. side the MRI data base was on a county basis and this was aggregated into the subbasins. On the Canadian side average parameters were established for each subbasin.

Therefore, the tacit assumption is made that each land use/land capability is uniformly dispersed throughout the subbasin. The relative impact of each land use on the estimate of tributary loadings is assumed constant regardless of its location or concentration in a basin. It is apparent if a particular land is located at the headwaters of a basin with large lakes or reservoirs, its relative contribution to rivermouth loads to a Great Lake would be considerably less than a land use located near the river mouth. This type of resolution within subbasins is possible with the PLUARG "Overview Model", but was not feasible or believed necessary for the preliminary assessment with the USLE based model.

## APPLICATION OF USLE MODEL RESULTS

The model and the present data base for the Great Lakes Basin was used to provide a preliminary assessment of the relative contribution that various land uses make to observed diffuse tributary loadings of phosphorus to the Great Lakes. It also provides a mechanism for obtaining a first approximation of achievable reductions in phosphorus inputs from each land use, and the relative costs to achieve them. It must be emphasized that the present data base only allows resolution on a large watershed basis, and provides only gross assessments. Also, the basic assumption is made that pollutant loads to the lakes from each "land use/land capability" combination are generated in proportion to the potential soil loss for that land use as predicted by the USLE.

The USLE was developed as a working tool for soil erosion prediction and soil conservation and erosion control planning. "It was developed for application on very small land areas eg. single fields within a farm, and most of the quantification of the factors in the equation were developed from studies on small field plots. However, its use has been expanded considerably in recent years and much work has been done in refining the information on factors that affect erosion." <sup>21</sup>

Application of the USLE to the analysis of nonpoint source pollution <sup>12, 13</sup> has been increasing in recent years and in many cases may be used beyond its limitations. Better predictive tools are needed, particularly with respect to sediment delivery ratios, and models which consider the physical processes involved in erosion and sediment transport.

The USLE only predicts soil loss by sheet and rill erosion as a result of rainfall impact on soils. The movement of dislodged soil particles to streams is not modelled. In some applications of the USLE, this is covered by a sediment delivery ratio (Sd). The determination and use of sediment delivery ratios is subject to considerable controversy and misuse.

In this analysis, the USLE was used to distribute measured tributary loadings and not to predict the magnitude of nonpoint sources. It is recognized that the USLE as used in this application does not really "model" soil erosion and transport of sediment and sediment associated pollutants to the lakes. It only provides a tool to compare the relative contribution of various nonpoint sources of pollution and evaluate the potential for control on a basin-wide basis.

The estimates of the total diffuse tributary phosphorus loadings were determined from PLUARG Task <sup>14, 15</sup> and Great Lakes Water Quality Board, Surveillance Subcommittee Reports".

The results of applying the soil losses from various land uses and from Tables 10 and 11 to 1976 diffuse tributary phosphorus loadings are shown in Table 12-16 for lakes Superior, Michigan, Huron,

**TABLE 10:** Fraction Of Soil Loss From Various Land Uses In The United States Great Lakes Basin

Basin No.	Fraction	LAND USE						Total
		Urban	Cropland		Pasture	Forest	Other	
			Row	Close Grown				
401	a		0.005	0.050	0.081	0.365	0.499	1.000
	b	0.158	0.004	0.042	0.068	0.308	0.420	1.000
402	a		0.044	0.202	0.066	0.446	0.241	1.000
	b	0.139	0.038	0.174	0.057	0.384	0.208	
403	a		0.513	0.199	0.087	0.045	0.157	1.000
	b	0.047	0.487	0.190	0.083	0.043	0.150	1.000
404	a		0.647	0.127	0.045	0.002	0.178	1.000
	b	0.280	0.465	0.091	0.032	0.004	0.128	1.000
405	a		0.631	0.178	0.081	0.007	0.102	1.000
	b	0.085	0.579	0.163	0.074	0.006	0.093	
406	a		0.275	0.266	0.115	0.089	0.254	1.000
	b	0.126	0.241	0.232	0.101	0.078	0.222	
407	a		0.164	0.154	0.113	0.123	0.446	1.000
	b	0.096	0.148	0.140	0.102	0.111	0.403	
408	a		0.665	0.156	0.060	0.011	0.108	1.000
	b	0.130	0.577	0.136	0.052	0.010	0.095	1.000
409	a		0.543	0.160	0.102	0.023	0.172	1.000
	b	0.458	0.294	0.087	0.055	0.012	0.094	1.000
410	a		0.788	0.118	0.043	0.002	0.049	1.000
	b	0.048	0.750	0.112	0.041	0.002	0.047	1.000
411	a		0.316	0.118	0.077	0.029	0.460	1.000
	b	0.290	0.224	0.084	0.055	0.021	0.326	1.000
412	a		0.341	0.155	0.109	0.080	0.315	1.000
	b	0.470	0.081	0.082	0.058	0.042	0.167	1.000
413	a		0.440	0.202	0.130	0.038	0.190	1.000
	b	0.148	0.375	0.171	0.111	0.032	0.163	1.000
414	a		0.388	0.224	0.127	0.035	0.226	1.000
	b	0.058	0.366	0.211	0.120	0.033	0.212	1.000
415	a		0.318	0.120	0.177	0.098	0.287	1.000
	b	0.244	0.240	0.091	0.134	0.074	0.217	1.000

Notes::

a - Fraction of soil loss from non-urban land

b - Fraction of soil loss from all land

General Land Use Groupings:

Cropland - Land Use - 1, 2 - Row Crops and No. 3, 4 and 9 Close Grown

Pasture - Land Use No. 5, 6, 7, 8, 10 and 11

Forest- Land Use No. 12, 15 and 16

Other- Land Use No. 13 and 14

(see page 8 for detailed land use listings)

**TABLE 11:** Fraction Of Soil Loss From Various Land Uses In The Canadian Great Lakes Basin

Basin No.	Fraction	LAND USE					Total
		Urban	Cropland	Pasture	Forest	Other	
501	a		0.144	0.164	0.692	0	1.00
	b	0.191	0.116	0.133	0.560	0	1.00
502	a		0	0.003	0.997	0	1.00
	b	0.006	0	0.003	0.991	0	1.00
503	a		0	0.010	0.990	0	1.00
	b	0.018	0	0.010	0.972	0	
504	a		0.021	0.126	0.853	0	1.00
	b	0.149	0.018	0.107	0.726	0	1.00
505	a		0.052	0.127	0.821	0	1.00
	b	0.225	0.040	0.098	0.637	0	1.00
506	a		0.779	0.119	0.102	0	1.00
	b	0.133	0.676	0.103	0.088	0	1.00
507	a		0.927	0.066	0.007	0	1.00
	b	0.015	0.913	0.065	0.007	0	1.00
508	a		0.975	0.023	0.002	0	1.00
	b	0.071	0.906	0.021	0.002	0	1.00
509	a		0.989	0.009	0.002	0	1.00
	b	0.089	0.901	0.008	0.002	0	1.00
510	a		0.942	0.053	0.005	0	1.00
	b	0.045	0.899	0.051	0.005	0	
511	a		0.916	0.078	0.006	0	1.00
	b	0.322	0.621	0.053	0.004	0	1.00
512	a		0.777	0.179	0.044	0	1.00
	b	0.123	0.681	0.157	0.039	0	1.00

## Notes:

- a - Fraction of soil loss from non-urban lands
- b - Fraction of soil loss from all lands

## General Land Use Groupings:

- Cropland - Land Uses - No. 1 & 2
  - Pasture - Land Uses - No. 3 & 4
  - Forest- Land Uses - No. 5
  - Other- Land Uses - No. 6 & 7
- (see page 12 for detailed land use listing)

**TABLE 12:** Land Uses And Their Estimated Contribution To Total Phosphorus Loadings To Lake Superior

LAND USE (thousands of hectares)							
Basin No.	Total Area	Urban	Cropland				
			Row	Close Grown	Pasture	Forest	Other
401	2,388	115	0	9	109	2,098	57
402	2,013	56	4	27	59	1,842	25
U.S. Total	4,401	171	40	168	3,940	82	
501	896	6	3	40	843	4	
502	6,602	0.5	0	0	6,589	13	
503	1,914	1.5	0	6	1,894	12	
Cdn. Total	9,412	8	3	46	9,326	29	
<b>TOTAL</b>	<b>13,813</b>	<b>179</b>	<b>43</b>	<b>214</b>	<b>13,266</b>	<b>111</b>	

Estimated Land Use Contributions To Diffuse Loadings Of Total Phosphorus (1976)  
(tonnes/annum)

Basin No.	Total Diffuse Tributary Load	Urban	Cropland				
			Row	Close Grown	Pasture	Forest	Other
401	595	94	2	25	40	183	250
402	239	33	9	42	14	92	50
U.S. Total	834	127	78	54	275	300	
501	186	35	22	25	104	-	
502	1,348	8	0	4	1,336	-	
503	202	4	0	2	196	-	
Canadian Total	1,736	47	22	31	1,636	-	
<b>TOTAL</b>	<b>2,570</b>	<b>174</b>	<b>100</b>	<b>85</b>	<b>1,911</b>	<b>300</b>	



**TABLE 13:** Land Uses And Their Estimated Contribution To Total Phosphorus Loadings To Lake Michigan

LAND USE  
(thousands of hectares)

Basin No.	Total Area	Urban	Cropland		Pasture	Forest	Other
			Row	Close Grown			
403	4,372	186	322	276	903	2,451	234
404	564	257	98	36	89	27	57
405	3,329	331	713	414	1,013	639	219
406	3,457	167	82	122	546	2,396	144
U.S. Total	11,722	941		2,063	2,551	5,513	654

Estimated Land Use Contributions To Diffuse Loadings Of Total Phosphorus (1976)  
(tonnes/annum)

Basin No,	Total Diffuse Tributary Load	Urban	Cropland		Pasture	Forest	Other
			Row	Close Grown			
403	599	28	293	114	50	26	90
404	404	113	188	37	13	2	50
405	846	72	488	136	63	5	79
406	406	51	97	94	41	32	90
TOTAL	2,255	264		1,447	167	65	311

**TABLE 14:** Land Uses And Their Estimated Contribution to Total Phosphorus Loadings to Lake Huron

Basin No.	Total Area	LAND USE (thousands of hectares)						
		Urban	Cropland		Pasture	Forest	Other	
			Row	Close Grown				
407	1,903	73	27	57	255	1,389	102	
408	2,079	157	454	229	450	662	127	
U.S. Total	3,982	230		767	705	2,051	229	
504	1,197	4		0	48	1,141	4	
505	3,611	19		4	169	3,372	47	
506	2,375	44		170	571	1,564	26	
507	1,101	15		329	497	252	8	
Cdn. Total	8,284	82		503	1,285	6,329	85	
TOTAL	12,266	312		1,270	1,990	8,380	314	

Estimated Land Use Contributions to Diffuse Loadings of Total Phosphorus (1976)  
(tonnes/annum)

Basin No.	Total Diffuse Tributary Load	Urban	Cropland		Pasture	Forest	Other
			Row	Close Grown			
407	224	22	33	31	23	25	90
408	1,394	181	807	190	72	14	130
U.S. TOTAL	1,618	203		1,061	95	39	220
504	147	22		3	16	106	-
505	181	41		7	18	115	-
506	215	28		146	22	19	-
507	360	5		329	23	3	-
Canadian Total	903	96		485	79	243	-
TOTAL	2,521	299		1,546	174	282	220

**TABLE 15:** Land Uses And Their Contribution to Total Phosphorus Loadings to Lake Erie

LAND USE  
(thousands of hectares)

Basin No.	Total Area	Urban	Cropland		Pasture	Forest	Other
			Row	Close Grown			
409	1,346	308	143	102	323	395	75
410	2,929	230	1,320	421	558	264	136
411	799	247	60	30	189	180	93
412	652	196	31	29	149	206	41
U.S. Total	5,726	981		2,136	1,219	1,045	345
508	938	28		505	271	123	11
509	637	27		417	85	95	13
510	688	28		240	302	117	1
Cdn. Total	2,263	83		1,162	658	335	25
TOTAL	7,989	1,064		3,298	1,877	1,380	370

Estimated Land Use Contributions to Diffuse Loadings Of Total Phosphorus (1976)  
(tonnes/annum)

Basin No.	Total Diffuse Tributary Load	Urban	Row	Cropland		Pasture	Forest	Other
				Close Grown				
409*	1,330	610	391	116	73	16	125	
410*	4,352	209	3,272	488	179	9	200	
411*	2,394	697	536	201	132	50	780	
412*	1,219	574	221	100	71	51	201	
U.S. Total	9,294	2,090		5,325	455	126	1,306	
508	449	32		407	9	1	-	
509	499	44		450	4	1	-	
510	428	19		385	22	2	-	
Cdn. Total	1,376	95		1,242	35	4	-	
TOTAL	10,678	2,185		6,567	490	130	1,306	

\* (1975) Ratios [ (9302/6967) X 1975 Load ]

**TABLE 16:** Land Uses And Their Estimated Contribution to Total Phosphorus Loadings to Lake Ontario

LAND USE  
(thousands of hectares)

Basin No.	Total Area	Urban	Cropland					Other
			Row	Close Grown	Pasture	Forest		
413	1,092	199	99	86	329	328	51	
414	1,767	101	136	128	476	771	155	
415	748	58	13	14	158	474	31	
U.S. Total	3,607	358		476	963	1,573	237	
511	808	133		198	348	126	3	
512	1,996	25		130	681	1,109	51	
Cdn. Total	2,804	158		328	1,029	1,235	54	
TOTAL	6,411	516		804	1,992	2,808	291	

Estimated Land Use Contributions to Diffuse Loadings Of Total Phosphorus (1976)  
(tonnes/annum)

Basin No.	Total Diffuse Tributary Load	Urban	Cropland					Other
			Row	Close	Grown	Pasture	Forest	
413	870	130	327		150	97	28	138
414	652	38	238		138	78	22	138
415	477	117	114		43	64	35	104
U.S. Total	1,999	285		1,010		239	85	380
511	751	242		466		40	3	-
512	311	38		212		49	12	-
Cdn. Total	1,062	280		678		89	15	-
TOTAL	3,061	565		1,688		328	100	380

Erie and Ontario respectively. Included in each table are the areas in each land use category in each subbasin.

The land use and phosphorus loading data for each lake basin are summarized in Tables 17 and 18 respectively. Also included in Table 18 are the point source, atmospheric and connecting channel phosphorus loadings for comparison with the diffuse tributary loads from various land uses.

In the Lake Superior basin, 57 percent of the total lake loading comes from nonpoint sources. However, most of this load is from forested lands and little opportunity exists for reducing it.

Lake Huron also receives over 50 percent of its total phosphorus load from diffuse tributary sources. However, about half of this load is attributable to cropland and some potential for reduction exists. The same is true for Lake Michigan, although the tributary load is a smaller fraction, about 30 percent, of the total lake load.

Lake Erie receives over 50 percent of its phosphorus load from diffuse sources with the largest contributors being cropland and urban runoff, both controllable nonpoint sources.

In Lake Ontario, the tributary loading is only 25 percent of the total load and cropland contributes an estimated 14 percent of the total load indicating a marginal potential for load reductions.

The total phosphorus loading from the two controllable land uses, cropland and urban runoff, from each subbasin are summarized in Figure 2. As would be expected the major cropland inputs are from the River Basin Group (No. 410), which includes the Maumee River Basin and River Basin No. 408, draining into Saginaw Bay.

## PRELIMINARY COST ESTIMATES

The information generated by the computer model and applied to measured tributary loadings provides an overview of the location and relative size of phosphorus loads from nonpoint sources and provides a means of assessing the potential for reducing these loads. Application of average costs per unit area to implement control measures on lands contributing the major part of the loading provide a first approximation of the total costs for a control program.

PLUARG concluded that reductions in phosphorus inputs are required to meet the target loads for Lakes Erie, Ontario and Saginaw Bay and Lake Huron as established in the Fifth Year Review of the Great Lakes Water Quality Agreement<sup>2</sup>. It was further concluded that nonpoint source controls will be required to achieve these target loads as well as to reduce the inputs of other pollutants which are either presently causing problems in the Great Lakes or are potential problems.

The following is a preliminary analysis of the programs which could be implemented to achieve the target loads, an estimate of the reductions in other pollutants which could be achieved, and the estimated cost.

**TABLE 17:** Major Land Uses In The Great Lakes Basin

(thousands of hectares)

Lake Basin	Urban	Cropland	Pasture	Forest	Other	Total
Superior						
U.S.	171	40	168	3,940	82	4,401
Cdn.	8	3	46	9,326	29	9,412
TOTAL	179	43	214	13,266	111	13,813
Michigan						
U.S.	941	2,063	2,551	5,513	654	11,722
Cdn.	0	0	0	0	0	0
TOTAL	941	2,063	2,551	5,513	654	11,722
Huron						
U.S.	230	767	705	2,051	229	3,982
Cdn.	82	503	1,285	6,329	85	8,282
TOTAL	312	1,270	1,990	8,380	314	12,266
Erie						
U.S.	981	2,136	1,219	1,045	345	5,726
Cdn.	83	1,162	658	335	25	2,263
TOTAL	1,064	3,298	1,877	1,380	370	7,989
Ontario						
U.S.	358	476	963	1,573	237	3,607
Cdn.	158	328	1,029	1,235	54	2,804
TOTAL	516	804	1,992	2,808	291	6,411
Great Lakes						
U.S.	2,681	5,482	5,606	14,122	1,547	29,438
Cdn.	331	1,996	3,018	17,225	193	22,763
TOTAL	3,012	7,478	8,624	31,347	1,740	52,201

**TABLE 18:** 1976 Total Phosphorus Loads To The Great Lakes

(Diffuse Tributary Load Distribution Determined by USLE Based Computer Model)

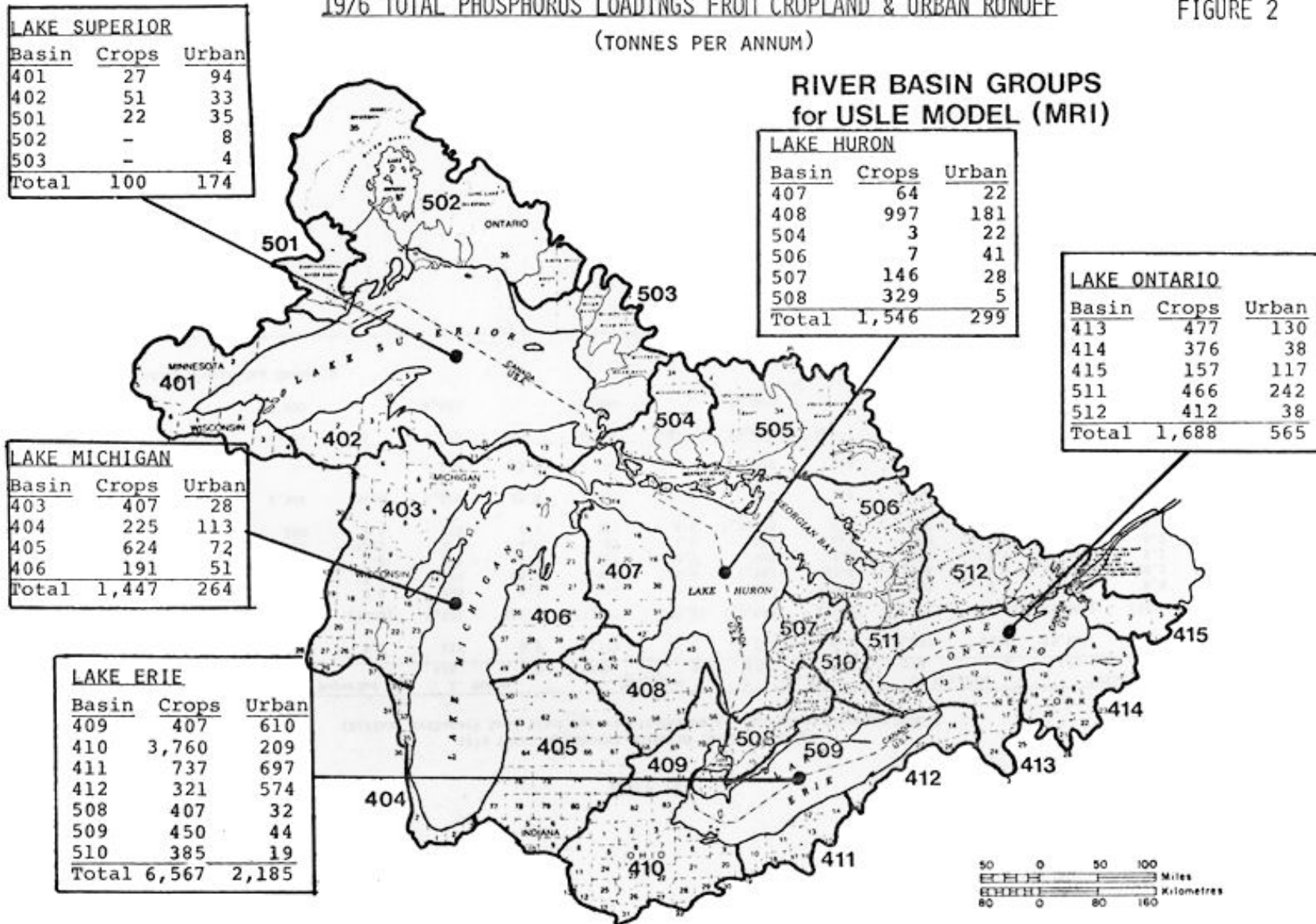
Sources	L. Superior		L. Huron		L. Michigan		L. Erie		L. Ontario		TOTAL	
	t/a	%	t/a	%	t/a	%	t/a	%	t/a	%	t/a	%
Point Sources	392	8.7	415	8.8	2,777	41.4	7,164	36.4	2,837	23.7	13,585	33.7
Tributary Diffuse	(2,570)	(56.8)	2,521	(53.4)	(2,255)	(33.6)	(10,678)	(54.2)	(3,061)	(25.6)	(21,084)	(52.4)
Urban	174	3.8	299	6.3	264	3.9	2,185	11.1	565	4.7	3,487	8.6
Cropland	100	2.2	1,546	32.7	1,447	21.6	6,567	33.4	1,688	14.1	11,348	28.2
Pasture	85	1.9	174	3.7	167	2.5	490	2.5	328	2.7	1,244	3.1
Forest	1,911	42.2	282	6.0	65	1.0	130	0.7	100	0.8	2,488	6.2
Other	300	6.6	220	4.7	311	4.6	1,306	6.6	380	3.2	2,517	5.3
Atmospheric	1,566	34.6	1,129	23.9	1,682	25.1	774	3.9	438	3.7	5,589	13.9
Connecting Channels	-	-	657	13.9	-	-	1,080	5.5	5,613	47.0	(7,350)	-
TOTAL	4,528	100	4,722	100	6,714	100	19,696	100	11,949	100	40,258*	100
TARGET	3,900		4,400		4,900		11,000		7,000		31,200	

\* Excluding Connecting Channels

t/a - tonnes per annum

1976 TOTAL PHOSPHORUS LOADINGS FROM CROPLAND & URBAN RUNOFF  
(TONNES PER ANNUM)

FIGURE 2





The required reduction in nonpoint sources of phosphorus depends upon the level of point source control being implemented. The annual phosphorus loading reductions which would be required under various levels of point source control were developed by PLUARG, and are summarized in Table 19. The cost of achieving these additional point source loading reductions is presented in Table 20. These cost estimates are developed from a computer simulation study of costs for municipal wastewater treatment to achieve various levels of phosphorus removal which is described in another PLUARG Technical Report<sup>17</sup>.

The estimated phosphorus loading reductions and annual cost of achieving them by implementing nonpoint source control on cropland and urban lands are shown in Table 21 and 22 respectively. The estimates of load reductions for cropland erosion control are based on the assumption that sound land management programs, such as contour plowing, terracing, strip cropping, no-till farming, grassed water ways can be implemented which will reduce the average soil loss potential to less than 1 ton per acre per year (2.2 t/ha/a). The urban load reductions are based on the assumption that treatment of stormwater will provide a 30 percent reduction in the suspended solids and phosphorus loads.

The average annual cost for cropland erosion controls and urban runoff treatment were estimated at \$25 and \$100 per hectare respectively. These estimates are based on a consideration of the available cost information in PLUARG Technical Reports on pilot watershed studies<sup>18, 19</sup> and evaluations of remedial measures<sup>20,21</sup>.

The annual cost estimates, including those for the point source control programs, represent the annual operating and maintenance cost plus the annual amount required at an interest rate of 10 percent per annum to recover in 25 years any capital expenditures required.

As a starting point it is also assumed that full implementation of ongoing programs under the 1972 Great Lakes Water Quality Agreement to reduce phosphorus concentrations to 1 mg P/L in the effluents from all municipal sewage treatment plants with flows greater than 1 MGD ( $4 \times 10^6$  L/d) will be carried out.

Using the information contained in Tables 19-22, possible control strategies and the costs to achieve the target loadings for each of the lakes requiring further load reductions were developed as shown in Table 23.

The Lake Erie target loading can be achieved by cropland erosion controls alone or with a combination of additional point source plus cropland erosion control. Preliminary cost estimates for the cropland erosion programs in the Lake Erie basin is \$81.5 million. The target loads cannot be achieved by point source controls alone unless effluent requirements more restrictive than 0.3 mg P/L are enforced. Implementing an effluent level of 0.5 mg P/L at municipal plants would result in a loading reduction of 1400 t/a at an estimated annual cost of \$15.4 million. The most cost-effective program for Lake Erie would likely be a combination of effluent concentrations not exceeding 0.5 mg P/L at some of the very large municipal treatment plants in the basin plus implementation of programs to control soil loss from cropland.

**TABLE 19:** Additional Phosphorus Load Reductions Required To Meet Target Loads.

POINT SOURCE CONTROLS	LAKE ERIE	LAKE ONTARIO	SAGINAW BAY
Present	8,700	5,600	580
STP's @ 1.0 mg/L	4,600	3,300	380
STP's @ 0.5 mg/L	3,200	2,200	240
STP's @ 0.3 mg/L	2,100	1,300	-

**TABLE 20:** Additional Phosphorus Load Reductions And Estimated Costs By Limiting Effluent Concentrations To 0.5 mg/L At Point Sources.

LAKE	ERIE	LAKE ONTARIO	SAGINAW BAY
Load Reductions (t/a)	1,400	1,100	140
Annual Cost (\$x10 <sup>6</sup> )	15.4	12.5	1.5

Basis for Estimates

1. Estimated \$11,000/tonne of phosphorus removed by reducing effluent limits from 1.0 to 0.5 mg P/L
2. Load reductions per Table 18. Likely would only consider large municipal treatment plants.

Note: A further load reduction to Lake Ontario of 900 t/a could be achieved by reducing effluent limits to 0.3 mg/L from 0.5 mg/L. Estimated cost at \$165,000/tonne is \$148.5 million per year.

**TABLE 21: Phosphorus Load Reductions Achievable From Cropland Soil Erosion Control - Programs And Estimated Costs**

Basin No.	LAKE ERIE		LAKE ONTARIO			SAGINAW BAY			TOTAL ANNUAL COST (\$ x 10 <sup>6</sup> )
	Load Reduction (t/a)	Annual Cost (\$x10 <sup>6</sup> )	Basin No.	Load Reduction (t/a)	Annual Cost (\$x10 <sup>6</sup> )	Basin No.	Load Reduction (t/a)	Annual Cost (\$x10 <sup>6</sup> )	
409	350	6.0							U.S. Total 81.0
410	2,850	43.5	413	360	4.2				
411	560	2.3	414	280	6.0				
412	220	1.2	415	140	0.8	408	600	17.0	
U.S. Total	3,980	53.0	U.S. Total	780	11.0	U.S. Total	600	17.0	
508	230	12.5							
509	240	10.0	511	360	4.2				
510	330	6.0	512	150	3.3				
Cdn. Total	800	28.5	Cdn. Total	510	7.5			Cdn. Total 36.0	
<b>TOTAL</b>	<b>4,780</b>	<b>81.5</b>	<b>TOTAL</b>	<b>1,290</b>	<b>18.5</b>	<b>TOTAL</b>	<b>600</b>	<b>17.0</b>	

Basis for Estimates

1. Reduce average soil loss potential to 2.2t/ha/a(1 ton/acre/year)
2. Average Annual Cost \$25/ha/a

**TABLE 22: Estimated Reductions And Costs To Reduce Phosphorus Inputs From Urban Land**

Basin No.	LAKE ERIE			LAKE ONTARIO			SAGINAW BAY				
	1976 Load (t/a)	Load Reduction (t/a)	Annual Cost (\$x10 <sup>6</sup> )	Basin No.	1976 Load (t/a)	Load Reduction (t/a)	Annual Cost (\$x10 <sup>6</sup> )	Basin No.	1976 Load (t/a)	Load Reduction (t/a)	Annual Cost (\$x10 <sup>6</sup> )
409	610	183	31								
410	209	63	23	413	130	39	11				
411	697	209	25	414	36	11	10				
412	574	172	20	415	113	34	6	408	181	54	16
U.S. Total	2,090	627	99	U.S. Total	285	86	27	U.S. Total	181	54	16
508	27	8	3								
509	43	13	3	511	231	69	13				
510	21	6	3	512	29	9	3				
Cdn. Total	91	27	9	Cdn. Total	260	78	16				
<b>TOTAL</b>	<b>2,181</b>	<b>650</b>	<b>106</b>	<b>TOTAL</b>	<b>545</b>	<b>164</b>	<b>43</b>	<b>TOTAL</b>	<b>181</b>	<b>54</b>	<b>16</b>

Basis:

1. Assumes a 30% reduction in suspended solids and phosphorus can be achieved by stormwater treatment.
2. Estimated Annual Cost \$100/ha of urban land.

The target loading for Lake Ontario will be extremely difficult and expensive to achieve unless the reduction of inputs to Lake Erie result in a significant reduction in the load transmitted to Lake Ontario via the Niagara River. Therefore, for this analysis, it is assumed that a 100 t reduction in the load to Lake Erie would result in a 25 t reduction in the load to Lake Ontario. As indicated in Table 23 a no cost reduction for Lake Ontario has been assumed due to implementation of programs to achieve the target load reductions for Lake Erie. In addition, cropland erosion control will also be required for Lake Ontario at an estimated cost of \$18.5 million/year. However, this will still not be sufficient and some STP's will be required to reduce effluent phosphorus concentrations to 0.5 mg/L at an estimated annual cost of \$12.5 million. The total estimated cost for the Lake Ontario program is \$31 million per year.

If the control program in Lake Erie does not result in predicted reductions in the loads to Lake Ontario, it would be necessary to consider stricter point source effluent limits to 0.3 mg/L and this would increase the estimated cost of the Lake Ontario program approximately \$150 million/yr.

Cropland erosion control is also required in the Saginaw Bay area. The estimated annual cost for this program is \$17 million/yr. Further point source controls to an 0.5 mg/L effluent limit would be beneficial but would not be sufficient to meet the target loadings without some nonpoint source reductions.

Implementation of the above programs to reduce erosion and soil loss from cropland will also reduce the tributary sediment loads to the lakes and the inputs of sediment-associated contaminants. A first approximation of these reductions, based on the USLE model results and the amounts of these pollutants associated with sediment reported by PLUARG<sup>2</sup>, are shown in Table 24. The suggested programs would result in a reduction of about 40 percent in the tributary sediment inputs and reduce the total estimated inputs of lead by 15 percent, PCB's by 10 percent and mercury by 40 percent.

## SUMMARY

The estimated annual cost of programs required to achieve phosphorus target loads and significant reductions in the inputs of sediment and sediment-associated pollutants (PCB's, lead and mercury) to the Great Lakes are as follows:

Lake Erie	\$ 80 million
Lake Ontario	\$ 30 million
Saginaw Bay	<u>\$ 20 million</u>
	\$130 million

This analysis indicates that programs to reduce phosphorus inputs to the Great Lakes for urban and cropland is feasible and practical on a lake-wide basis. A more detailed analysis is therefore warranted to determine the most cost-effective combinations point and nonpoint source pollution control strategies to be implemented in specific drainage basins. The results of this work are described generally in the PLUARG Final Report<sup>2</sup> and in detail in the PLUARG Technical Report' - "Management Information Base and Overview Modelling".

**TABLE 23:** Strategies To Achieve Target Phosphorus Loadings To The Great Lakes

Lake	Control Strategy	Residual Phosphorus Load Over Target (t/a)	Estimated Annual Cost (\$x10 <sup>6</sup> )
Lake Erie	STP's @ 1.0 mg/L	4,600	-
	Cropland Erosion Control	0	<u>81.5</u>
	Total		81.5
Lake Ontario*	STP's @ 1.0 mg/L	3,300	-
	Implementation of L. Erie programs to achieve target	2,100	-
	Cropland Erosion Control	800	18.5
	STP's @ 0.5 mg/L	0	<u>12.5</u>
	Total		31.0
Lake Huron (Saginaw Bay)	STP's @ 1.0 mg/L	380	-
	Cropland Erosion Control	0	17.0
	Total		<u>17.0</u>
Great Lakes		Total	129.5

\* The load reductions required and cost for Lake Ontario will be much more severe than indicated if the programs to be implemented in the Lake Erie Basin do not result in a significant reduction in the load transmitted to Lake Ontario by the Niagara River.

**TABLE 24:** Reduction In Loadings Of Sediment And Sediment-associated Pollutants By Implementing Cropland Erosion Control Programs

LAKE	REDUCTIONS IN LOADINGS (%)			
	Sediment*	Lead**	PCBs**	Mercury**
Erie	39	16	10	37
Ontario	42	14	8	40

\* Reduction in tributary loading only

\*\* Reduction in total lake loading

## CONCLUSIONS

The MRI "Nonpoint Calculator" computer model based on the Universal Soil Loss Equation is a useful management tool for making preliminary assessments of nonpoint source pollution of the Great Lakes. It provides a means to estimate the relative contributions of various land uses to pollutant loadings to the lakes on a lake basin scale. The model can be used to estimate loading reductions which could be achieved by implementing nonpoint source controls and the associated costs for preliminary analysis of the feasibility and cost-effectiveness of various alternatives.

The results obtained from this simple model need to be compared with those from other methodologies and its utility for evaluating progress in reducing nonpoint source loads to the Great Lakes through implementation of control programs should be evaluated. Several other computer models are available for assessing nonpoint sources. These generally require much more detailed input data than the "Nonpoint Calculator" and therefore would not be as useful for preliminary analyses on lake basin scale.

However, the results from such models should be compared with this more general approach to provide some degree of confidence in the broader approach. The U.S. Corps of Engineers, in the Lake Erie Waste Water Management Study, is applying the USLE on a much more detailed scale than was used here. Comparison of their results when available, with those reported here will provide one opportunity to assess the feasibility of applying the USLE to very large drainage areas.

The "Nonpoint Calculator" is relatively simple and inexpensive to use and, it should be further developed and applied. However, the land use data base and USLE parameters for the Great Lakes should be further refined and updated.

There is a need to develop relationships between application of various erosion and sediment control techniques and the effect on USLE parameters to better predict pollutant load reductions. Cost information for remedial measures is also very limited.





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## **APPENDIX A**

### **NONPOINT CALCULATOR RESULTS FOR U.S. PORTION OF BASIN**

NON POINT CALCULATOR  
MIDWEST RESEARCH INSTITUTE  
21 NOVEMBER 1977 VERSION

NAME OF BASIN= GREAT LAKES (UNITED STATES)

POLLUTANT SOURCES TO CONSIDER:		LAND USES	GLOSSARY
EROSION	YES	1	CORN AND SORGUM
URBAN RUNOFF	YES	2	OTHER ROW CROPS
		3	CLOSE GROWN CROPS
FEEDLOTS	NO	4	SUMMER FALLOW
		5	ROTATED HAY AND PASTURE
LANDFILL	NO	6	HAY ONLY
		7	CONSERVATION USE ONLY
IRRIGATION RETURN FLOW	NO	8	TEMPORARILY IDLE
		9	ORCHARDS
ACID MINE DRAINAGE	NO	10	OPEN FORMERLY CROPPED
		11	PASTURE
CONTROL INFORMATION		12	FEDERAL FOREST
NUMBER OF EVENTS	1	13	OTHER FARM LAND
NUMBER OF REGIONS=	15	14	OTHER NON-FARM LAND
		15	CNI COMMERCIAL FOREST
		16	CNI NON-COMMERCIAL FOREST

LAND CAPABILITY CLASSES

1	LAND	CAPABILITY	CLASS 1-
2	LAND	CAPABILITY	CLASS 2E
3	LAND	CAPABILITY	CLASS 2S
4	LAND	CAPABILITY	CLASS 2W
5	LAND	CAPABILITY	CLASS 2C
6	LAND	CAPABILITY	CLASS 3E
7	LAND	CAPABILITY	CLASS 3S
8	LAND	CAPABILITY	CLASS 3W
9	LAND	CAPABILITY	CLASS 3C
10	LAND	CAPABILITY	CLASS 4E
11	LAND	CAPABILITY	CLASS 4S
12	LAND	CAPABILITY	CLASS 4W
13	LAND	CAPABILITY	CLASS 4C
14	LAND	CAPABILITY	CLASS 5E
15	LAND	CAPABILITY	CLASS 5S
16	LAND	CAPABILITY	CLASS 5W
17	LAND	CAPABILITY	CLASS 5C
18	LANG	CAPABILITY	CLASS 5E
19	LAND	CAPABILITY	CLASS 6S
20	LAND	CAPABILITY	CLASS 6W
21	LAND	CAPABILITY	CLASS 6C
22	LAND	CAPABILITY	CLASS 7E
23	LAND	CAPABILITY	CLASS 7S
24	LAND	CAPABILITY	CLASS 7W
25	LAND	CAPABILITY	CLASS 7C
26	LAND	CAPABILITY	CLASS 8E
27	LAND	CAPABILITY	CLASS 8S
28	LAND	CAPABILITY	CLASS 8W
29	LAND	CAPABILITY	CLASS 8C

REGION=1

WESTERN LAKE SUPERIOR

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)

(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2	100	3	1	32	0	168	185	16	21	3	41	80	1696	47	30	2808	52
3	10	21	0	52	0	149	0	0	12	0	0	5	679	29	0	1241	0
4	100	0	0	7	0	30	15	1	1	0	15	25	950	13	8	1593	24
5	10	30	0	68	0	462	24	0	49	0	41	68	1583	57	0	2653	0
6	100	0	1	75	0	334	161	40	7	0	168	141	2646	56	219	4421	45
7	10	3	13	85	0	1087	79	97	219	2	97	195	4534	186	0	7717	73
8	100	1	0	36	0	124	59	26	23	0	35	113	1425	4	48	2359	34
9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	938	0
10	100	0	0	5	0	37	42	7	10	1	24	13	1425	12	16	2366	25
11	100	0	3	6	0	23	70	6	9	0	4	12	882	6	35	1472	0
12	100	0	1	27	0	86	47	5	11	0	31	70	3257	51	133	5420	371
16	100	0	0	0	0	3	2	0	0	0	9	1	950	0	168	1576	355
18	10	0	0	0	0	65	11	12	1	0	122	157	4298	55	166	7272	11
19	10	0	0	0	0	0	0	20	4	0	62	0	3619	0	219	5971	0
20	10	0	0	0	0	0	0	0	0	0	0	23	1357	0	155	2232	568
22	10	0	0	0	0	20	0	0	0	0	0	11	2488	0	0	4087	0
23	100	0	0	0	0	0	0	0	2	0	0	18	3348	0	67	5561	696
24	10	0	0	0	0	0	0	0	0	0	0	0	226	0	36	368	2884
27	10	0	0	0	0	0	0	0	0	0	0	0	0	616	225	112	1452
28	10	0	0	0	0	0	0	0	0	0	0	0	226	48	3255	274	763

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	2	72	73	71	0	70	72	71	68	50	53	85	75	67	62	75	52
LCC=	3	69	0	70	0	76	0	0	100	0	0	94	76	53	0	76	0
LCC=	4	60	0	74	0	83	89	66	90	0	79	87	77	65	67	77	51
LCC=	5	67	0	67	0	67	67	0	67	0	50	83	83	73	0	83	0
LCC=	6	100	78	68	0	66	71	68	76	0	59	89	74	64	58	74	51
LCC=	7	71	71	66	0	62	77	72	70	50	50	89	81	65	0	81	51
LCC=	8	83	87	82	0	83	81	79	77	0	63	88	74	68	62	74	51
LCC=	9	0	0	0	0	0	0	0	0	0	0	0	76	0	0	76	0
LCC=	10	0	0	67	0	60	57	73	67	50	50	94	75	67	58	75	50
LCC=	11	0	88	85	0	77	86	84	87	0	50	87	77	73	59	77	66
LCC=	12	0	81	87	0	86	84	84	83	0	80	89	76	64	58	76	53
LCC=	16	0	0	0	0	100	75	0	0	0	100	100	74	0	56	74	51
LCC=	18	0	0	0	0	80	100	100	100	0	56	100	73	73	58	73	50
LCC=	19	0	0	0	0	0	0	100	100	0	57	0	73	0	52	73	0
LCC=	20	0	0	0	0	0	0	0	0	0	0	100	78	0	62	78	52
LCC=	22	0	0	0	0	100	0	0	0	0	0	100	85	0	0	85	0
LCC=	23	0	0	0	0	0	0	0	100	0	0	98	76	0	57	76	50
LCC=	24	0	0	0	0	0	0	0	0	0	0	0	85	0	67	85	52
LCC=	27	0	0	0	0	0	0	0	0	0	0	0	80	59	67	80	52
LCC=	28	0	0	0	0	0	0	0	0	0	0	0	72	54	56	72	52

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS(LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		.00	.35	.40	.33	.37	.33	.40	.24	.37	.30	.21	.17	.00	.00
2		.22	.00	.32	.27	.27	.00	.26	.25	.17	.00	.00	.26	.23	.00

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8	
	1	.420	.450	.170	0.000	.015	.015	.050	.100
	2	.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 1		0	350	425	429	437	300	435	377	437	250	298	414	0	0
1 2		328	0	244	275	250	0	211	258	250	0	0	254	268	0

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 1		0.0	4.0	2.0	1.0	1.3	9.0	1.1	1.0	1.3	15.0	1.0	1.0	0.0	0.0
1 2		1.0	0.0	25.0	9.0	11.5	0.0	25.0	11.5	15.0	0.0	0.0	11.5	11.5	0.0

RAINFALL FACTOR R = 119.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=1

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	8.32	9.04	3.32	0.00	.29	.30	.98	1.87	3.44	.22	.23	.06	3.69	3.41	.06	0.07	0.17
3	4.28	0.00	1.76	0.00	.17	0.00	0.00	1.48	0.00	0.00	.14	.03	1.57	0.00	.03	0	0.15
4	1.98	0.00	.99	0.00	.10	.11	.26	.71	0.00	.09	.07	.02	1.02	1.05	.02	0.02	0.03
5	2.88	0.00	1.17	0.00	.10	.10	0.00	.69	0.00	.08	.09	.03	1.50	0.00	.03	0	0.09
6	28.34	23.68	7.80	0.00	.67	.72	2.29	5.13	0.00	.60	.60	.15	8.64	7.83	.15	0.17	0.54
7	3.00	3.21	1.13	0.00	.09	.12	.36	.70	1.26	.08	.09	.02	1.31	0.00	.02	0.03	0.07
8	1.92	2.16	.71	0.00	.01	.07	.22	.42	0.00	.05	.05	.01	.75	.68	.01	0.01	0.03
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.02	0.00	0.00	.02	0	0.02
10	0.00	0.00	17.42	0.00	1.38	1.31	5.58	10.25	19.12	1.15	1.44	.34	20.50	17.74	.34	0.38	0.56
11	0.00	1.78	.65	0.00	.05	.06	.19	.39	0.00	.03	.04	.01	.66	.53	.01	0.01	0.03
12	0.00	1.46	.59	0.00	.05	.05	.17	.33	0.00	.05	.04	.01	.51	.47	.01	0.01	0.02
16	0.00	0.00	0.00	0.00	.07	.05	0.00	0.00	0.00	.07	.05	.01	0.00	.54	.01	0.01	0.04
18	0.00	0.00	0.00	0.00	4.21	5.26	17.52	35.04	0.00	2.94	3.50	.77	51.16	40.65	.77	0.88	1.64
14	0.00	0.00	0.00	0.00	0.00	0.00	2.64	5.24	0.00	.45	0.00	.12	0.00	5.50	.12	0	0.24
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.86	.20	0.00	10.65	.20	0.22	0.41
22	0.00	0.00	0.00	0.00	3.97	0.00	0.00	0.00	0.00	0.00	2.65	.68	0.00	0.00	.68	0	0.69
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.08	0.00	0.00	.79	.18	0.00	9.21	.18	0.2	0.25
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.21	0.00	10.97	.21	0.21	0.32
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.20	9.84	11.17	.20	0.22	3.7
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.16	8.18	8.48	.16	0.2	6.19
	4.83	5.99	4.12	0.00	.40	.41	1.62	2.11	7.07	.51	.40	.12	6.64	6.15	.12	0.15	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

LCC	REGION=1																
	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	11	14	15	16	
2	.001	.001	.006	0.000	.003	.001	.001	.002	.001	.001	.001	.006	.010	.006	.010	.000	.050
3	.001	0.000	.001	0.000	.000	0.000	0.000	.000	0.000	0.000	.000	.000	.000	0.000	.000	0.000	.002
4	0.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.001	.001	.000	.002	.000	.005
5	.000	0.000	.000	0.000	.000	.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	0.000	.001
6	0.000	.001	.013	0.000	.013	.007	.005	.002	0.000	.006	.005	.022	.027	.097	.037	.000	.255
7	.000	.000	.001	0.000	.001	.000	.000	.001	.000	.000	.000	.001	.001	0.000	.001	.000	.006
8	.000	0.000	.002	0.000	.000	.000	.000	.001	0.000	.000	.000	.001	.000	.002	.002	.000	.008
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
10	0.000	0.000	.005	0.000	.003	.001	.002	.006	.001	.002	.001	.028	.014	.016	.046	.001	.126
11	0.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.001	.000	.001	.001	0.000	.004
12	0.000	.000	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.002	.001	.003	.003	.000	.011
16	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	.000	.000	.001	0.000	.005	.001	.000	.007
10	0.000	0.000	0.000	0.000	.002	.000	.001	.000	0.000	.002	.003	.019	.016	.038	.031	.000	.112
19	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.000	0.000	.002	0.000	.007	.004	0.000	.014
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.002	0.000	.009	.003	.006	.019
22	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	.000	.009	0.000	0.000	.016	0.000	.026
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	0.000	.001	.035	0.000	.035	.058	.008	.137
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.002	.000	.003	.006
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.034	.014	.000	.002	.050
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.002	.156	.000	.001	.159
	.003	.002	.040	0.000	.022	.014	.010	.013	.002	.010	.012	.129	.108	.391	.214	.022	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

LCC	REGION=1																
	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	11	14	15	16	
2	.000	.000	.001	0.000	.003	.003	.000	.000	.000	.001	.001	.030	.001	.001	.050	.001	.092
3	.000	0.000	.000	0.000	.000	0.000	0.000	.000	0.000	0.000	.000	.001	.000	0.000	.002	0.000	.004
4	0.000	0.000	.000	0.000	.001	.000	.000	.000	0.000	.000	.000	.017	.000	.000	.028	.000	.048
5	.000	0.000	.000	0.000	.001	.000	0.000	.000	0.000	.000	.000	.003	.000	0.000	.005	0.000	.009
6	0.000	.000	.001	0.000	.006	.003	.001	.000	0.000	.003	.003	.047	.001	.004	.079	.001	.148
7	.000	.000	.000	0.000	.002	.000	.000	.000	.000	.000	.000	.008	.000	0.000	.014	.000	.026
8	.000	0.000	.001	0.000	.002	.001	.000	.000	0.000	.001	.002	.025	.000	.001	.042	.001	.076
9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
10	0.000	0.000	.000	0.000	.001	.001	.000	.000	.000	.000	.000	.025	.000	.000	.042	.000	.071
11	0.000	.000	.000	0.000	.000	.001	.000	.000	0.000	.000	.000	.016	.000	.001	.026	0.000	.045
12	0.000	.000	.000	0.000	.002	.001	.000	.000	0.000	.001	.001	.058	.001	.002	.097	.007	.169
16	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	.000	.000	.017	0.000	.003	.028	.006	.055
18	0.000	0.000	0.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.008	.000	.000	.013	.000	.022
19	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.000	0.000	.006	0.000	.000	.011	0.000	.018
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.002	0.000	.000	.004	.008	.015
22	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	.000	.004	0.000	0.000	.007	0.000	.012
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.060	0.000	.001	.099	.012	.173
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.001	.005	.006
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	.000	.001	.004
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	.006	.000	.001	.008
	.000	.000	.004	0.000	.018	.011	.002	.002	.000	.006	.009	.329	.005	.020	.548	.046	

REGION=2

SOUTHERN LAKE SUPERIOR

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)		(ACRES x FACTOR X)															
LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	0	208	1490	0	1038	2076	0	0	0	0	320	1 371	586	0	3493	0
2	100	0	7	189	0	87	17	2	20	0	53	81	2016	48	19	5282	22
3	10	0	17	30	0	17	23	0	38	0	0	39	1097	79	11	2723	6
4	100	0	2	50	0	11	0	0	1	0	22	41	1015	29	9	2645	70
6	100	0	8	132	0	58	25	18	21	0	47	165	1563	47	31	4105	15
7	100	0	29	55	0	17	75	0	4	0	13	20	425	9	15	1097	21
8	100	0	2	207	0	35	27	25	8	0	56	55	1 989	49	60	5218	24
10	100	0	0	9	0	9	6	3	10	0	9	22	782	11	4	2053	59
11	100	0	14	3	0	16	22	0	4	0	29	13	782	10	9	2039	2
12	100	0	0	1	0	2	2	0	4	0	0	2	658	0	19	1715	2
18	10	0	0	21	0	22	0	0	0	0	92	80	1 920	37	23	5195	14
19	100	0	0	14	0	0	21	0	0	2	6	26	672	7	35	1759	2
20	10	0	0	0	0	0	0	0	0	0	0	0	411	0	31	1084	0
22	100	0	0	1	0	2	5	0	0	0	14	11	411	8	2	1080	1
23	100	0	7	16	0	17	0	0	0	0	15	18	1413	32	75	3682	13
24	1	0	0	0	0	0	0	0	0	0	0	0	1371	0	0	3019	1043
27	1	0	0	0	0	0	0	0	0	0	0	0	1371	28	11	2309	0
28	10	0	0	0	0	0	0	0	58	0	0	0	2880	0	356	7409	4675

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC= 1	0	51	100	0	81	81	0	0	0	0	100	86	53	0	86	0
LCC= 2	0	81	81	0	66	72	94	64	0	50	94	83	65	68	83	50
LCC= 3	0	75	65	0	75	70	0	77	0	0	85	82	52	81	82	50
LCC= 4	0	80	86	0	82	0	0	93	0	50	85	80	53	53	80	59
LCC= 6	0	89	80	0	77	80	78	72	0	50	92	80	61	53	80	54
LCC= 7	0	82	81	0	73	86	3	98	0	50	100	81	56	56	81	59
LCC= 8	0	76	65	0	74	73	62	62	0	50	81	78	54	54	78	56
LCC= 10	0	0	72	0	67	99	62	71	0	50	87	78	62	55	78	59
LCC= 11	0	83	60	0	81	90	0	57	0	50	92	79	56	51	79	52
LCC= 12	0	0	83	0	50	70	0	66	0	0	82	77	0	58	77	52
LCC= 18	0	0	100	0	50	0	0	0	0	50	88	84	62	71	84	50
LCC= 19	0	0	86	0	0	76	0	0	50	50	80	79	68	54	78	50
LCC= 20	0	0	0	0	0	0	0	0	0	0	0	69	0	50	69	0
LCC= 22	0	0	50	0	50	70	0	0	0	50	85	85	59	70	85	50
LCC= 23	0	91	88	0	79	0	0	0	0	50	79	75	52	51	75	50
LCC= 24	0	0	0	0	0	0	0	0	0	0	0	83	0	0	83	54
LCC= 27	0	0	0	0	0	0	0	0	0	0	0	69	0	50	69	0
LCC= 29	0	0	0	0	0	0	0	50	0	0	0	76	0	60	76	51

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.32	.34	.30	.31	.00	.34	.31	.24	.00	.33	.17	.18	.00	.00	.00
2	.00	.00	.35	.17	.17	.00	.37	.18	.17	.00	.00	.17	.17	.00	

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8
1	0.000	.450	.170	0.000	.015	.015	.050	.100
2	.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2 1	441	319	296	352	0	250	331	259	0	266	269	306	0	0	0
2 2	0	0	177	276	200	0	188	255	150	0	0	200	236	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2 1	1.0	4.0	3.1	1.0	0.0	8.3	1.5	2.7	0.0	15.0	2.7	3.2	0.0	0.0	0.0
2 2	0.0	0.0	23.5	6.5	13.0	0.0	28.1	11.4	22.0	0.0	0.0	13.0	12.1	0.0	

RAINFALL FACTOR R=90.



SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=2

LCC	LAND USE																
	1	2	3	4	5	6	7	0	9	10	11	12	13	14	15	16	
1	0.00	2.12	.99	0.00	.07	.07	0.00	0.00	0.00	0.00	.06	.02	.62	0.00	.02	0	0.24
2	0.00	7.09	2.68	0.00	.19	.21	.91	1.25	0.00	.15	.18	.05	2.53	2.65	.05	0.05	0.15
3	0.00	4.11	1.41	0.00	.14	.13	0.00	.98	0.00	0.00	.11	.03	1.33	2.07	.03	0.03	0.10
4	0.00	1.90	.17	0.00	.06	0.00	0.00	.49	0.00	.04	.04	.01	.56	.56	.01	0.02	0.03
6	0.00	20.25	6.80	n.00	.58	.61	1.97	3.64	0.00	.38	.47	.12	6.17	5.36	.12	0.14	0.40
7	0.00	2.41	.90	0.00	.07	.00	0.00	.58	0.00	.05	.07	.02	.73	.73	.02	0.02	0.10
8	0.00	2.56	.83	0.00	.08	.08	.23	.46	0.00	.06	.06	.02	.81	.81	.02	0.02	0.05
10	0.00	0.00	15.18	0.00	1.25	1.84	3.84	8.81	0.00	.93	1.08	.29	15.38	13.64	.29	0.37	0.46
11	0.00	2.00	.55	0.00	.07	.07	0.00	.31	0.00	.04	.05	.01	.60	.55	.01	0.01	0.03
12	0.00	0.00	1.13	0.00	.06	.08	0.00	.53	0.00	0.00	.07	.02	0.00	.93	.02	0.02	0.03
16	0.00	0.00	37.90	0.00	1.67	0.00	0.00	0.00	0.00	1.67	1.96	.56	27.64	31.66	.56	0.56	0.93
19	0.00	0.00	2.78	0.00	0.00	.22	0.00	0.00	2.37	.14	.15	.04	2.58	2.05	.04	0.05	0.10
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.09	0.00	4.42	.09	0.00	0.18
22	0.00	0.00	27.72	0.00	2.45	3.42	0.00	0.00	0.00	2.45	2.77	.83	38.49	45.66	.83	0.82	1.14
23	0.00	17.67	6.46	0.00	.51	0.00	0.00	0.00	0.00	.32	.34	.10	4.49	4.40	.10	0.11	0.23
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.22	0.00	0.00	.22	0.24	0.23
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.09	0.00	4.42	.09	0.00	1.97
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.15	0.00	0.00	0.00	.10	0.00	5.16	.10	0.11	0.23
	0.00	6.24	2.99	0.00	.32	.28	1.14	2.64	2.37	.35	.38	.10	4.62	3.58	.10	0.12	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=2

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	0.000	.000	.001	0.000	.000	.000	0.000	0.000	0.000	0.000	.000	.000	.000	0.000	.000	0.000	.003
2	0.000	.005	.049	0.000	.002	.000	.000	.002	0.000	.001	.001	.009	.012	.005	.025	.000	.112
3	0.000	.001	.000	0.000	.000	.000	0.000	.000	0.000	0.000	.000	.000	.001	.000	.001	.000	.004
4	0.000	.000	.004	0.000	.000	0.000	0.000	.000	0.000	.000	.000	.001	.002	.000	.003	.000	.011
6	0.000	.016	.088	0.000	.003	.001	.003	.007	0.000	.002	.007	.018	.028	.016	.048	.000	.239
7	0.000	.007	.005	0.000	.000	.001	0.000	.000	0.000	.000	.000	.001	.001	.001	.002	.000	.017
8	0.000	.000	.017	0.000	.000	.000	.001	.000	0.000	.000	.000	.001	.004	.005	.009	.000	.040
10	0.000	0.000	.013	0.000	.001	.001	.001	.009	0.000	.001	.002	.022	.016	.005	.058	.002	.131
11	0.000	.003	.000	0.000	.000	.000	0.000	.000	0.000	.000	.000	.001	.001	.000	.003	.000	.008
12	0.000	0.000	.000	0.000	.000	.000	0.000	.000	0.000	0.000	.000	.001	0.000	.002	.003	.000	.006
18	0.000	0.000	.008	0.000	.000	0.000	0.000	0.000	0.000	.001	.002	.010	.010	.007	.028	.000	.067
19	0.000	0.000	.004	0.000	0.000	.000	0.000	0.000	.000	.000	.000	.003	.002	.007	.008	.000	.024
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.001	.001	0.000	.003
22	0.000	0.000	.003	0.000	.000	.002	0.000	0.000	0.000	.003	.003	.033	.030	.009	.081	.000	.170
23	0.000	.012	.010	0.000	.001	0.000	0.000	0.000	0.000	.000	.001	.013	.014	.032	.035	.000	.118
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.001	.000	.001
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.012	.000	0.000	.012
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	0.000	0.000	.003	0.000	.018	.007	.005	.034
	0.000	0.044	0.202	0.000	0.008	0.006	0.005	0.021	0.000	0.009	0.017	0.121	0.12	0.121	0.317	0.008	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=2

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	0.000	.000	.000	0.000	.000	.000	0.000	0.000	0.000	0.000	.000	.000	.000	0.000	.001	0.000	.002
2	0.000	.000	.004	0.000	.002	.000	.000	.000	0.000	.001	.002	.042	.001	.000	.109	.000	.163
3	0.000	.000	.000	0.000	.000	.000	0.000	.000	0.000	0.000	.000	.002	.000	.000	.006	.000	.008
4	0.000	.000	.001	0.000	.000	0.000	0.000	.000	0.000	.000	.001	.021	.001	.000	.055	.001	.081
6	0.000	.000	.003	0.000	.001	.001	.000	.000	0.000	.001	.003	.032	.001	.001	.085	.000	.129
7	0.000	.001	.001	0.000	.000	.002	0.000	.000	0.000	.000	.000	.009	.000	.000	.023	.000	.037
8	0.000	.000	.004	0.000	.001	.001	.001	.000	0.000	.001	.001	.041	.001	.001	.108	.000	.161
10	0.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.016	.000	.000	.043	.001	.062
11	0.000	.000	.000	0.000	.000	.000	0.000	.000	0.000	.001	.000	.016	.000	.000	.042	.000	.061
12	0.000	0.000	.000	0.000	.000	.000	0.000	.000	0.000	0.000	.000	.014	0.000	.000	.036	.000	.050
18	0.000	0.000	.000	0.000	.000	0.000	0.000	0.000	0.000	.000	.000	.004	.000	.000	.011	.000	.015
19	0.000	0.000	.000	0.000	0.000	.000	0.000	0.000	.000	.000	.001	.014	.000	.001	.036	.000	.053
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	.000	.002	0.000	.003
22	0.000	0.000	.000	0.000	.000	.000	0.000	0.000	0.000	.000	.000	.009	.000	.000	.022	.000	.032
23	0.000	.000	.000	0.000	.000	0.000	0.000	0.000	0.000	.000	.000	.029	.001	.002	.076	.000	.110
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.001	.000	.001
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.001	.000	0.000	.001
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.006	0.000	.001	.015	.010	.032
	0.000	.002	.014	0.000	.006	.005	.001	.002	.000	.006	.010	.257	.006	.007	.671	.015	

AREAS By LAND USE AND LAND CAPABILITY CLASS(LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	1685	89	973	19	1134	45	8	150	0	48	90	298	134	2	615	1
2	100	2554	2432	871	4	5479	687	472	136	70	278	5662	447	620	2007	221	31
3	10	3357	4854	227	2	46948	1175	776	349	0	302	1450	2686	584	2697	557	41
4	100	1705	1641	423	4	2655	232	425	168	6	193	924	1492	725	2904	402	199
6	100	678	43	805	1	1588	331	194	85	31	153	421	1940	299	985	733	34
7	100	363	236	339	0	548	84	138	53	4	74	91	477	152	501	445	6
8	100	89	49	101	0	183	78	53	22	0	89	335	2298	811	5026	760	448
10	100	227	25	208	0	513	194	83	29	2	75	284	1104	105	423	236	20
11	100	200	212	197	1	450	13	186	40	0	274	118	1074	200	483	223	25
12	100	172	158	137	2	222	52	44	66	2	60	233	1134	302	3493	374	230
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	0
16	10	121	0	74	0	51	0	0	6	0	4	5791	492	560	5064	734	811
18	100	56	7	52	0	163	49	9	16	2	24	145	627	51	261	864	9
19	100	65	0	52	0	147	13	11	5	2	16	86	388	38	101	149	4
22	100	22	0	27	0	85	26	33	1	0	20	92	358	29	191	062	5
23	100	28	13	21	0	36	35	19	7	0	71	103	985	89	1042	891	19
27	10	0	0	0	0	0	0	0	0	0	4	0	1194	176	1043	856	344
28	10	0	0	0	0	39	0	84	0	1	0	173	895	1103	2661	2351	1618

PRACTICE FACTOR BY Lu AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	58	54	60	55	56	63	66	70	0	50	85	74	68	62	74	72
LCC=	2	76	73	74	77	74	69	75	70	66	51	91	71	69	75	71	60
LCC=	3	71	64	68	59	68	61	64	66	0	50	85	69	66	73	69	55
LCC=	4	78	79	78	78	79	79	80	83	68	50	87	74	69	75	74	59
LCC=	6	82	82	79	93	81	73	78	77	72	52	92	71	67	72	71	71
LCC=	7	78	74	79	0	79	71	79	81	50	53	89	71	58	57	71	54
LCC=	8	76	71	79	0	80	81	81	81	0	50	87	72	61	66	72	55
LCC=	10	85	82	85	0	84	80	83	77	50	53	90	72	63	70	72	58
LCC=	11	81	81	76	90	80	79	76	80	0	50	90	76	55	53	76	55
LCC=	12	82	78	79	61	79	77	79	79	50	52	85	74	66	60	74	59
LCC=	15	0	0	0	0	0	0	0	0	0	0	0	95	0	0	95	0
LCC=	16	98	0	79	0	87	0	0	50	0	50	90	74	66	67	74	55
LCC=	18	92	95	89	0	91	83	87	81	100	50	91	74	65	71	74	59
LCC=	19	91	92	92	0	91	89	87	88	100	59	91	74	61	59	74	58
LCC=	22	100	0	100	0	98	97	99	100	0	74	94	72	70	69	72	54
LCC=	23	100	100	97	0	100	98	100	79	0	56	88	70	61	71	70	60
LCC=	27	0	0	0	0	0	0	0	0	0	100	0	73	65	72	73	54
LCC=	28	0	0	0	0	100	0	100	0	50	0	100	75	65	60	75	53

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.33	.35	.35	.34	.00	.35	.29	.23	.00	.31	.18	.17	.00	.00	.32
2	.23	.00	.30	.18	.00	.00	.29	.18	.00	.00	.00	.19	.19	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	.420	.450	.170	.300	.015	.015	.050	.100
2	.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3 1	390	350	371	404	0	300	332	356	0	273	259	426	0	0	250
3 2	288	0	232	284	0	0	233	286	0	0	0	287	260	0	0

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3 1	1.0	4.0	2.2	1.0	0.0	8.0	1.8	1.9	0.0	13.9	1.1	1.6	0.0	0.0	4.0
3 2	1.3	0.0	21.6	8.0	0.0	0.0	25.0	11.8	0.0	0.0	0.0	11.7	13.0	0.0	0.0

RAINFALL FACTOR R = 107.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=3

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.67	1.67	.70	1.13	.06	.06	.23	.48	0.00	.05	.06	.02	.94	.85	.02	.02	.75
2	7.90	8.13	3.11	5.72	.27	.26	.93	1.73	4.08	.19	.23	.05	3.42	3.71	.05	.07	1.56
3	3.60	3.41	1.39	2.13	.12	.11	.39	.80	0.00	.09	.10	.02	1.59	1.76	.02	.03	.76
4	2.35	2.54	.95	1.68	.08	.08	.29	.59	1.22	.05	.06	.02	.99	1.07	.02	.02	.50
6	22.16	23.74	8.64	17.95	.78	.70	2.51	4.95	11.58	.50	.59	.14	8.62	9.27	.14	.23	2.46
7	2.61	2.66	1.07	0.00	.09	.08	.32	.65	1.00	.06	.07	.02	.93	.91	.02	.02	.57
8	2.22	2.23	.94	0.00	.00	.08	.28	.56	0.00	.05	.06	.02	.85	.92	.02	.02	.15
10	44.40	45.89	17.97	0.00	1.57	1.49	5.16	9.58	15.55	.99	1.12	.27	15.67	17.41	.27	.36	3.37
11	1.19	1.27	.45	.94	.04	.04	.13	.28	0.00	.03	.03	.01	.38	.37	.01	.01	.13
12	1.65	1.68	.64	.88	.06	.06	.19	.38	.60	.04	.04	.01	.63	.58	.01	.01	.18
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.06	0.00	0.00	.06	0.00	.06
16	2.08	0.00	.68	0.00	.07	0.00	0.00	.25	0.00	.04	.05	.01	.67	.68	.01	.01	.13
18	87.46	96.77	34.25	0.00	3.09	2.82	9.85	18.33	56.59	1.70	2.06	.50	29.43	32.14	.50	.67	4.01
19	12.31	13.33	5.04	0.00	.44	.43	1.40	2.83	8.05	.28	.29	.07	3.93	3.80	.07	.09	.76
22	117.20	0.00	47.44	0.00	4.10	4.06	13.81	27.90	0.00	3.10	2.62	.60	39.07	38.51	.60	.75	4.40
21	24.06	25.78	9.45	0.00	.86	.84	2.86	4.53	0.00	.48	.50	.12	6.99	8.13	.12	.17	.76
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.90	0.00	.13	7.77	8.61	.13	.16	.53
28	0.00	0.00	0.00	0.00	1.00	0.00	3.35	0.00	8.37	0.00	.67	.15	8.71	8.04	.15	.18	3.61
	9.20	5.82	3.82	3.53	.38	.54	1.28	2.24	6.87	.28	.40	.10	3.48	3.91	.10	.06	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=3

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.000	.001	.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.003
2	.151	.015	.067	.000	.011	.001	.003	.002	.002	.000	.001	.001	.016	.006	.003	.000	.279
3	.009	.001	.004	.000	.001	.000	.000	.000	0.000	.000	.000	.000	.001	.000	.000	.000	.017
4	.030	.003	.010	.000	.002	.000	.001	.001	.000	.000	.000	.000	.005	.002	.001	.000	.056
6	.112	.006	.052	.000	.009	.002	.004	.003	.003	.001	.002	.002	.019	.007	.006	.000	.229
7	.007	.005	.001	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.017
8	.001	.001	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.005	.003	.001	.000	.013
10	.075	.009	.028	0.000	.006	.002	.003	.002	.000	.001	.002	.002	.012	.005	.007	.000	.155
11	.002	.002	.001	.000	.000	.000	.000	.000	0.000	.000	.000	.000	.001	.000	.000	.000	.006
12	.002	.002	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.002	.000	.000	.009
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
16	.000	0.000	.000	0.000	.000	0.000	0.000	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.001
10	.037	.005	.013	0.000	.004	.001	.001	.002	.001	.000	.002	.002	.011	.006	.007	.000	.093
19	.006	0.000	.002	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.001	.000	.011
22	.019	0.000	.010	0.000	.003	.001	.003	.000	0.000	.000	.002	.002	.008	.005	.005	.000	.059
23	.005	.003	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.001	.005	.006	.003	.000	.025
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.001	.001	.000	.000	.002
28	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	.000	0.000	.000	.000	.007	.016	.000	.000	.024
	.460	.053	.193	.000	.037	.008	.017	.011	.006	.003	.011	.011	.096	.061	.033	.001	

FRACTION OF LAKE) AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=3

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.000	.001	.000	.001	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.001	.000	.005
2	.025	.002	.028	.000	.053	.007	.005	.001	.001	.003	.005	.024	.006	.002	.070	.000	.231
3	.003	.000	.004	.000	.007	.001	.001	.000	0.000	.000	.001	.003	.001	.000	.007	.000	.029
4	.016	.002	.014	.000	.026	.002	.004	.002	.000	.002	.009	.014	.007	.003	.043	.002	.145
6	.007	.000	.008	.000	.015	.003	.002	.001	.000	.001	.004	.019	.003	.001	.055	.000	.120
7	.004	.002	.003	0.000	.005	.001	.001	.001	.000	.001	.001	.005	.001	.000	.014	.000	.039
8	.001	.000	.001	0.000	.002	.001	.001	.000	0.000	.001	.003	.022	.008	.005	.065	.004	.114
10	.002	.000	.002	0.000	.005	.002	.001	.000	.000	.001	.003	.011	.001	.000	.031	.000	.059
11	.002	.002	.002	.000	.004	.000	.002	.000	0.000	.003	.001	.010	.002	.000	.031	.000	.061
12	.002	.002	.001	.000	.002	.001	.000	.001	.000	.001	.002	.011	.003	.003	.033	.002	.063
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
16	.000	0.000	.000	0.000	.000	0.000	0.000	.000	0.000	.000	.001	.001	.001	.000	.005	.001	.009
18	.001	.000	.001	0.000	.002	.000	.000	.000	.000	.000	.001	.006	.000	.000	.018	.000	.030
19	.001	0.000	.001	0.000	.001	.000	.000	.000	.000	.000	.001	.004	.000	.000	.011	.000	.019
22	.000	0.000	.000	0.000	.001	.000	.000	.000	0.000	.000	.001	.003	.000	.000	.010	.000	.017
23	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.001	.001	.010	.001	.001	.028	.000	.043
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.001	.000	.000	.004	.000	.005
28	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	.000	0.000	.000	.001	.001	.003	.002	.002	.009
	.065	.012	.065	.000	.125	.019	.017	.007	.001	.013	.035	.145	.036	.020	.428	.013	

AREAS BY LAND USE AN))		LAND CAPABILITY CLASS(LCC)															
		(ACRES X FACTOR X)															
LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	1325	505	576	0	563	34	85	117	1	17	108	0	240	37	380	29
2	10	4124	1408	2494	0	4287	196	969	176	84	333	728	0	984	1449	925	68
3	1	4744	1091	6544	0	5866	0	2121	2.70	85	222	1586	0	1016	5871	1107	698
4	10	8036	2788	2971	0	3042	353	1893	260	44	323	1401	0	1285	3381	1145	333
6	10	1061	317	709	0	1178	127	303	42	4	45	358	0	231	620	553	49
7	1	4004	1458	1932	0	2520	302	692	79	0	0	1034	0	01935	612	696	0
8	10	1185	1093	424	0	99	256	378	93	4	23	263	0	475	1439	560	236
10	1	3492	2023	4764	0	7062	1574	1350	86	0	538	1910	0	1719	3062	3703	663
11	1	720	0	295	0	0	85	0	0	0	0	50	0	161	387	77	0
12	1	1955	2360	247	0	213	22	864	319	0	0	479	0	1176	1990	3084	252
16	1	67	71	31	0	236	0	112	50	0	0	1058	0	1184	1120	19	343
18	1	675	121	981	0	2611	695	22	159	0	0	2283	0	522	1843	3285	189
19	1	649	0	326	0	230	128	54	44	0	0	1130	0	769	2676	4383	1833
22	1	254	0	0	0	44	597	0	70	0	161	308	0	655	1588	869	34
23	1	0	0	0	0	0	0	0	0	0	0	518	0	148	2112	533	486
27	1	0	0	0	0	0	0	0	0	0	0	0	0	270	5968	0	0
28	1	0	0	0	0	0	0	0	0	0	0	84	0	759	893	883	0

PRACTICE FACTOR BY LU AND LCC (DIVIDE AY 100)

Lu=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC= 1	70	65	65	0	60	61	68	76	50	97	69	0	64	61	70	50
LCC= 2	86	88	83	0	83	84	78	85	50	60	90	0	59	59	74	61
LCC= 3	63	71	71	0	62	0	65	70	50	50	75	0	60	58	70	69
LCC= 4	83	83	83	0	82	81	83	83	71	65	76	0	61	57	72	63
LCC= 6	94	93	94	0	93	92	91	93	50	70	88	0	60	62	76	63
LCC= 7	81	91	78	0	72	75	73	63	0	0	69	0	65	63	81	0
LCC= 8	91	91	93	0	89	84	88	95	87	50	81	0	63	61	75	63
LCC= 10	95	98	93	0	94	94	94	85	0	95	89	0	61	59	77	69
LCC= 11	100	0	100	0	0	50	0	0	0	0	61	0	61	77	88	0
LCC= 12	96	99	92	0	91	75	99	92	0	0	86	0	61	70	75	60
LCC= 16	93	93	93	0	70	0	93	96	0	0	91	0	59	60	92	65
LCC= 18	94	98	94	0	95	94	88	93	0	0	89	0	62	57	78	58
LCC= 19	89	0	89	0	89	89	88	100	0	0	90	0	60	65	76	65
LCC= 22	95	0	0	0	100	91	0	100	0	100	77	0	68	60	77	57
LCC= 23	0	0	0	0	0	0	0	0	0	0	98	0	60	69	77	64
LCC= 27	0	0	0	0	0	0	0	0	0	0	0	0	58	56	0	0
LCC= 28	0	0	0	0	0	0	0	0	0	0	85	0	62	60	89	0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.34	.37	.28	.30	.00	.39	.30	.24	.00	.39	.17	.17	.00	.00	.00
2	.25	.00	.36	.17	.00	.00	.16	.18	.00	.00	.00	.17	.18	.00	

COVER FACTOR AY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	.433	.450	.170	0.000	.015	.015	.050	.100
2	.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4 1	380	295	293	308	0	284	309	240	0	238	233	273	0	0	0
4 2	173	0	179	250	0	0	198	196	0	0	0	222	215	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS(LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
4 1	1.0	3.6	2.6	1.9	0.0	7.2	2.4	3.5	0.0	15.0	3.7	3.9	0.0	0.0	0.0
4 2	2.5	0.0	17.0	7.1	0.0	0.0	24.0	11.7	0.0	0.0	0.0	8.6	10.3	0.0	

RAINFALL FACTOR R=130.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND) CAPABILITY CLASS

REGION=4

LCC	LAND USE																
	1	2	3	4	9	6	7	A	9	10	11	12	13	14	15	16	
1	2.59	2.90	.94	0.00	.08	.08	.29	.65	1.07	.12	.06	0.00	1.09	1.04	.02	.02	1.42
2	9.85	10.49	3.74	0.00	.33	.33	1.03	2.25	3.31	.24	.24	0.00	3.13	3.13	.06	.08	4.16
3	3.44	4.03	1.52	0.00	.12	0.00	.41	.88	1.58	.09	.09	0.00	1.51	1.46	.03	.04	1.38
4	3.80	3.95	1.49	0.00	.13	.13	.44	.88	1.88	.10	.08	0.00	1.29	1.21	.02	.03	1.96
6	29.79	30.65	11.71	0.00	1.02	1.01	3.33	6.81	9.16	.77	.64	0.00	8.79	9.08	.17	.23	10.78
7	4.49	5.24	1.70	0.00	.14	.14	.47	.81	0.00	0.00	.09	0.00	1.66	1.61	.03	0.00	2.23
8	6.04	6.29	2.43	0.00	.20	.19	.68	1.46	3.34	.12	.12	0.00	1.93	1.87	.03	.05	2.94
10	82.30	88.32	31.66	0.00	2.82	2.82	9.41	17.02	0.00	2.85	1.78	0.00	24.43	23.63	.46	.69	24.32
11	4.93	0.00	1.94	0.00	0.00	.09	0.00	0.00	0.00	0.00	.07	0.00	1.39	1.76	.03	0.00	2.84
12	5.34	5.73	2.01	0.00	.18	.14	.64	1.18	0.00	0.00	.11	0.00	1.57	1.80	.03	.04	2.39
16	3.74	3.89	1.47	0.00	.10	0.00	.43	.89	0.00	0.00	.08	0.00	1.10	1.11	.03	.03	.78
18	79.71	86.44	31.32	0.00	2.79	2.76	8.62	18.23	0.00	0.00	1.74	0.00	24.31	22.35	.46	.57	12.46
19	11.32	0.00	4.45	0.00	.39	.39	1.29	2.94	0.00	0.00	.26	0.00	3.53	3.82	.07	.10	1.87
22	149.05	0.00	0.00	0.00	5.44	4.95	0.00	36.27	0.00	5.44	2.79	0.00	49.33	43.52	.84	1.03	32.21
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.96	0.00	6.82	7.85	.13	.18	4.75
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.20	4.05	0.00	0.00	4.06
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.42	0.00	6.09	5.89	.13	0.00	3.83
	9.02	9.54	4.99	0.00	.54	.94	1.11	2.38	2.92	.47	.38	0.00	4.33	4.35	.12	.11	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=4

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.010	.004	.002	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.001	.000	.000	.000	.017
2	.119	.043	.027	0.000	.004	.000	.001	.001	.001	.000	.001	0.000	.009	.013	.000	.000	.221
3	.005	.001	.003	0.000	.000	0.000	.000	.000	.000	.000	.000	0.000	.000	.003	.000	.000	.013
4	.089	.032	.013	0.000	.001	.000	.002	.001	.000	.000	.000	0.000	.005	.012	.000	.000	.156
6	.092	.078	.024	0.000	.004	.000	.003	.001	.000	.000	.001	0.000	.006	.016	.000	.000	.176
7	.005	.002	.001	0.000	.000	.000	.000	.000	0.000	0.000	.000	0.000	.001	.000	.000	0.000	.010
8	.071	.020	.003	0.000	.000	.000	.001	.000	.000	.000	.000	0.000	.003	.008	.000	.000	.056
10	.084	.052	.044	0.000	.006	.001	.004	.000	0.000	.000	.001	0.000	.012	.021	.000	.000	.227
11	.001	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	.000	0.000	.001
12	.003	.004	.000	0.000	.000	.000	.000	.000	0.000	0.000	.000	0.000	.001	.001	.000	.000	.009
16	.000	.000	.000	0.000	.000	0.000	.000	.000	0.000	0.000	.000	0.000	.000	.000	.000	.000	.001
18	.016	.003	.009	0.000	.002	.001	.000	.001	0.000	0.000	.001	0.000	.004	.012	.000	.000	.049
19	.002	0.000	.000	0.000	.000	.000	.000	.000	0.000	0.000	.000	0.000	.001	.003	.000	.000	.007
22	.011	0.000	0.000	0.000	.000	.001	0.000	.001	0.000	.000	.000	0.000	.009	.020	.000	.000	.043
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.005	.000	.000	.005
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.007	0.000	0.000	.007
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.001	.002	.000	0.000	.003
	0.457	0.190	0.126	0.000	0.017	0.004	0.013	0.006	0.001	0.001	0.004	0.000	0.054	0.124	0.002	.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=4

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.018	.007	.008	0.000	.007	.000	.001	.002	.000	.000	.001	0.000	.003	.000	.005	.000	.053
2	.055	.019	.033	0.000	.057	.003	.013	.002	.001	.004	.010	0.000	.013	.019	.012	.001	.241
3	.006	.001	.009	0.000	.008	0.000	.003	.000	.000	.000	.002	0.000	.001	.008	.001	.001	.041
4	.106	.037	.039	0.000	.040	.005	.025	.003	.001	.004	.019	0.000	.017	.045	.015	.004	.360
6	.014	.004	.009	0.000	.016	.002	.004	.001	.000	.001	.005	0.000	.003	.008	.007	.001	.074
7	.005	.002	.003	0.000	.003	.000	.001	.000	0.000	0.000	.001	0.000	.003	.001	.001	0.000	.020
8	.016	.014	.006	0.000	.001	.003	.005	.001	.000	.000	.003	0.000	.006	.019	.007	.003	.086
10	.005	.003	.006	0.000	.009	.002	.002	.000	0.000	.001	.003	0.000	.002	.004	.005	.001	.042
11	.001	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.001	.000	0.000	.002
12	.003	.003	.000	0.000	.000	.000	.001	.000	0.000	0.000	.001	0.000	.002	.003	.004	.000	.017
16	.000	.000	.000	0.000	.000	0.000	.000	.000	0.000	0.000	.001	0.000	.002	.001	.000	.000	.006
18	.001	.000	.001	0.000	.003	.001	.000	.000	0.000	0.000	.003	0.000	.001	.002	.004	.000	.018
19	.001	0.000	.000	0.000	.000	.000	.000	.000	0.000	0.000	.001	0.000	.001	.004	.006	.002	.016
22	.000	0.000	0.000	0.000	.000	.001	0.000	.000	0.000	.000	.000	0.000	.001	.002	.001	.000	.006
21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	.000	.003	.001	.001	.005
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.008	0.000	0.000	.008
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.001	.001	.001	0.000	.003
	.230	.090	.115	0.000	.146	.017	.055	.011	.002	.011	.052	0.000	.056	.129	.072	.015	



AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)

(ACRES x FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	1419	342	921	0	773	41	670	157	112	258	437	0	350	143	1388	0
2	100	3144	837	2350	14	2501	1571	206	429	252	682	527	0	579	103	1350	6
3	10	8328	3497	5236	22	4612	433	85	599	601	910	576	0	1273	583	1633	3
4	100	3457	1681	2342	12	1777	65	791	405	211	603	892	0	495	259	2642	44
6	100	1287	368	910	21	1314	131	587	320	213	486	613	0	314	251	1297	27
7	100	1292	650	820	1	993	112	741	219	195	544	192	0	249	267	735	4
8	100	1279	748	679	5	479	58	558	360	113	601	929	0	618	429	4458	26
10	10	2255	852	2825	44	3082	987	2349	603	917	3364	2577	0	1122	438	6392	39
11	10	3227	1919	2354	0	2406	3981	2891	1086	2614	3327	685	0	1275	469	9364	0
12	10	2413	1314	847	24	676	127	980	524	822	1611	1451	0	1011	561	6712	0
18	10	1260	288	1182	0	1782	551	851	597	89	1721	3170	0	615	1253	6467	43
19	10	273	168	191	0	287	171	146	140	427	678	361	0	159	123	1440	15
20	1	668	539	77	0	271	0	297	73	0	149	77	0	1463	0	87	0
22	10	208	108	221	0	306	417	467	74	168	961	1658	0	446	500	5299	3
23	100	47	25	60	0	34	11	38	25	33	155	49	0	43	110	1130	55
24	1	0	0	0	0	0	0	0	0	209	0	0	0	0	2451	1675	0
27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	73	0	0
28	10	63	0	0	0	21	0	7	0	0	15	233	0	977	461	1559	23

PRACTICE FACTOR BY Lu AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC = 1	71	75	75	0	76	72	67	68	67	51	70	0	68	61	84	0
LCC = 2	79	80	78	84	78	76	79	75	64	51	89	0	60	58	84	50
LCC = 3	77	77	75	93	76	82	78	75	61	50	92	0	57	58	84	50
LCC = 4	82	83	81	76	81	81	82	79	64	51	88	0	62	59	83	51
LCC = 6	62	85	81	90	82	80	82	80	60	55	89	0	60	59	86	50
LCC = 7	82	81	81	93	79	79	73	79	63	53	91	0	62	61	85	50
LCC = 8	81	81	80	82	79	77	81	77	66	51	88	0	60	60	95	50
LCC = 10	85	88	78	82	80	77	80	78	70	63	88	0	59	59	97	50
LCC = 11	82	64	82	0	83	76	76	81	72	62	92	0	65	63	91	0
LCC = 12	82	86	83	86	77	80	77	81	83	51	90	0	63	60	98	0
LCC = 18	86	82	84	0	85	82	79	79	83	68	92	0	59	59	88	57
LCC = 19	91	79	80	0	95	89	71	83	71	72	96	0	61	65	87	50
LCC = 20	93	100	100	0	63	0	92	100	0	50	50	0	63	0	85	0
LCC = 22	78	76	73	0	78	66	73	65	50	66	92	0	61	61	86	50
LCC = 23	82	69	85	0	81	66	77	81	56	74	93	0	68	64	87	67
LCC = 24	0	0	0	0	0	0	0	0	50	0	0	0	0	75	72	0
LCC = 27	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0
LCC = 28	50	0	0	0	100	0	50	0	0	100	79	0	61	66	90	71

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC)

(K)

LCC =	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.36	.37	.36	.33	.00	.36	.31	.24	.00	.36	.17	.17	.00	.00	.00
2	.00	.00	.35	.17	.18	.00	.37	.17	.17	.00	.00	.19	.17	.00	

COVER FACTOR By LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	.422	.450	.170	.300	.015	.015	.050	.100
2	.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC)

(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5 1	309	201	310	392	0	161	307	214	0	150	250	248	0	0	0
5 2	0	0	116	206	151	0	106	165	100	0	0	125	163	0	

SLOPE (PERCENT) By LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5 1	1.0	4.0	1.0	1.0	0.0	8.9	2.0	3.9	0.0	14.4	4.0	4.0	0.0	0.0	0.0
5 2	0.0	0.0	15.6	6.2	6.6	0.0	23.0	9.4	12.4	0.0	0.0	6.5	8.9	0.0	

RAINFALL FACTOR R=103.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=5

LCC	LAND USE																
	1	2	1	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	2.02	2.27	.86	0.00	.08	.07	.23	.46	1.13	.05	.05	0.00	.92	.82	.02	0.00	.76
2	6.73	7.26	2.68	5.08	.24	.23	.80	1.51	3.23	.15	.18	0.00	2.42	2.34	.05	.05	2.72
3	2.14	2.34	.86	1.88	.08	.08	.26	.51	1.03	.05	.06	0.00	.77	.78	.02	.02	1.12
4	2.30	2.48	.91	1.51	.08	.08	.27	.52	1.06	.05	.06	0.00	.82	.78	.02	.02	1.01
6	19.96	22.04	7.93	15.55	.71	.69	2.36	4.61	8.64	.48	.51	0.00	6.91	6.80	.15	.14	6.35
7	3.12	3.28	1.24	2.51	.11	.11	.33	.71	1.42	.07	.08	0.00	1.12	1.10	.02	.02	1.23
8	4.47	4.76	1.77	3.21	.15	.15	.53	1.00	2.15	.10	.11	0.00	1.57	1.57	.03	.03	1.18
10	39.13	43.15	14.45	26.81	1.31	1.26	4.36	8.50	19.07	1.03	.96	0.00	12.86	12.86	.28	.27	8.52
11	3.50	3.82	1.41	0.00	.13	.12	.38	.82	1.82	.09	.09	0.00	1.32	1.27	.03	0.00	1.04
12	3.49	3.90	1.42	2.60	.12	.12	.39	.82	2.09	.08	.09	0.00	1.27	1.21	.03	0.00	1.04
18	38.45	19.06	15.11	0.00	1.35	1.30	4.18	8.36	21.96	1.08	.97	0.00	12.49	12.49	.28	.30	6.12
19	6.78	6.27	2.40	0.00	.25	.24	.63	1.46	3.13	.19	.17	0.00	2.15	2.29	.05	.04	1.31
20	7.10	8.13	3.07	0.00	.17	0.00	.83	1.81	0.00	.14	.09	0.00	2.28	0.00	.05	0.00	3.55
22	66.17	67.99	25.00	0.00	2.36	1.99	7.35	13.09	25.18	1.99	1.85	0.00	24.58	24.58	.52	.50	6.26
23	4.74	11.26	4.06	0.00	.34	.28	1.08	2.28	3.94	.31	.26	0.00	3.82	3.60	.07	.09	1.07
74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15	0.00	0.00	0.00	0.00	4.99	.07	0.00	3.05
21	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	2.35	0.00	0.00	2.35
28	5.45	0.00	0.00	0.00	.39	0.00	.65	0.00	0.00	.39	.20	0.00	3.15	3.41	.07	.09	1.54
	6.77	6.23	2.99	9.08	.31	.55	1.03	1.97	4.24	.30	.35	0.00	3.13	3.95	.08	.08	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=5

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.000	.000	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	0.000	.003
2	.115	.033	.034	.000	.003	.000	.005	.004	.004	.001	.001	0.000	.008	.005	.000	.000	.212
3	.010	.004	.002	.000	.000	.000	.000	.000	.000	.000	.000	0.000	.001	.000	.000	.000	.019
4	.043	.023	.012	.000	.001	.000	.001	.001	.001	.000	.000	0.000	.002	.001	.000	.000	.085
6	.139	.044	.039	.002	.005	.000	.008	.008	.010	.001	.002	0.000	.012	.009	.001	.000	.280
7	.022	.012	.005	.000	.001	.000	.001	.001	.001	.000	.000	0.000	.002	.002	.000	.000	.047
8	.011	.019	.007	.000	.000	.000	.002	.002	.001	.000	.001	0.000	.005	.004	.001	.000	.073
10	.048	.020	.022	.001	.002	.001	.006	.003	.009	.002	.001	0.000	.008	.010	.001	.000	.133
11	.006	.004	.002	0.000	.000	.000	.000	.000	.003	.000	.000	0.000	.001	.001	.000	0.000	.018
12	.005	.003	.001	.000	.000	.000	.000	.000	.001	.000	.000	0.000	.001	.000	.000	0.000	.011
18	.026	.006	.010	0.000	.001	.000	.002	.003	.001	.001	.002	0.000	.004	.008	.001	.000	.066
19	.001	.001	.000	0.000	.000	.000	.000	.000	.001	.000	.000	0.000	.000	.000	.000	.000	.003
20	.000	.000	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	0.000	.000	0.000	.000	0.000	.001
22	.007	.004	.004	0.000	.000	.000	.002	.001	.002	.001	.002	0.000	.006	.007	.001	.000	.037
23	.002	.002	.001	0.000	.000	.000	.000	.000	.001	.000	.000	0.000	.001	.002	.000	.000	.010
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.001	.000	0.000	.001
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
28	.000	0.000	0.000	0.000	.000	0.000	.000	0.000	0.000	.000	.000	0.000	.002	.001	.000	.000	.003
	.457	.174	.138	.003	.014	.002	.027	.023	.037	.007	.008	0.000	.051	.051	.007	.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION = 5

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.000	.001	0.000	.001	.000	.001	.000	.000	.000	.001	0.000	.000	.000	.002	0.000	.009
2	.042	.011	.032	.000	.034	.002	.016	.006	.003	.009	.007	0.000	.008	.005	.018	.000	.195
3	.011	.005	.007	.000	.006	.000	.004	.001	.001	.001	.001	0.000	.002	.001	.002	.000	.042
4	.047	.023	.032	.000	.024	.001	.011	.005	.003	.008	.012	0.000	.007	.003	.036	.001	.212
6	.017	.005	.012	.000	.018	.002	.008	.004	.003	.007	.008	0.000	.004	.003	.018	.000	.110
7	.017	.009	.011	.000	.013	.002	.010	.003	.003	.007	.003	0.000	.003	.004	.010	.000	.095
8	.017	.010	.009	.000	.006	.001	.008	.005	.002	.008	.013	0.000	.008	.006	.060	.000	.153
10	.003	.001	.004	.000	.004	.001	.003	.001	.001	.005	.003	0.000	.002	.002	.009	.000	.039
11	.004	.003	.003	0.000	.003	.001	.002	.001	.004	.004	.001	0.000	.002	.002	.013	0.000	.042
12	.003	.002	.001	.000	.001	.000	.001	.001	.001	.002	.002	0.000	.001	.001	.009	0.000	.026
18	.002	.000	.002	0.000	.002	.001	.001	.001	.000	.002	.004	0.000	.001	.002	.009	.000	.027
19	.000	.000	.000	0.000	.000	.000	.000	.000	.001	.001	.000	0.000	.000	.000	.002	.000	.006
20	.000	.000	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	0.000	.000	0.000	.000	0.000	.000
22	.000	.000	.000	0.000	.000	.001	.001	.000	.000	.001	.002	0.000	.001	.001	.007	.000	.015
23	.001	.000	.001	0.000	.000	.000	.001	.000	.000	.002	.001	0.000	.001	.001	.015	.001	.024
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.001
2/	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
28	.000	0.000	0.000	0.000	.000	0.000	.000	0.000	0.000	.000	.000	0.000	.001	.001	.002	.000	.005
	.168	.070	.115	.001	.115	.011	.066	.029	.022	.059	.058	0.000	.041	.032	.211	.002	

REGION=A

NORTHEASTERN LAKE MICHIGAN

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)

(ACRES x FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	94	3	116	0	349	295	43	64	62	165	94	471	188	21	3196	0
2	10	3158	593	3104	0	3789	1118	1585	775	1899	2516	2339	1532	854	591	9660	3
3	10	160	116	123	0	650	106	123	80	357	168	222	236	74	56	1310	0
4	100	119	31	171	0	213	80	100	15	24	193	323	424	39	33	2651	6
6	100	267	44	394	0	447	187	273	48	279	424	471	495	151	156	3043	13
7	100	195	134	258	0	460	185	216	20	146	551	301	306	165	277	1926	8
8	100	133	65	189	0	306	87	116	55	25	363	542	1414	69	332	8768	54
10	100	30	7	44	0	150	77	81	22	138	196	212	295	39	41	1833	11
11	100	112	200	151	0	265	130	205	22	126	805	277	943	124	508	5836	33
12	100	61	65	56	0	24	38	10	19	24	188	239	766	53	251	4780	40
18	10	163	0	137	0	540	346	295	67	220	1029	2777	1179	273	681	7434	67
19	100	32	4	27	0	76	54	75	21	51	319	115	413	46	145	2539	52
20	1	0	0	0	0	445	0	0	0	0	105	37	1179	0	0	8826	0
22	10	99	0	168	0	168	20	118	0	225	710	1486	1179	93	218	7043	718
23	1000	5	2	10	0	10	11	9	3	9	84	46	242	12	57	1502	11
24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3039	0
27	1	0	0	0	0	0	0	0	0	0	615	1771	0	0	509	2426	0
28	10	0	0	0	0	0	0	0	86	0	17	83	943	2861	336	5805	8055

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	69	73	62	0	69	65	74	55	50	51	100	92	58	51	92	0
LCC=	2	80	87	83	0	77	79	72	74	64	52	86	79	70	71	79	70
LCC=	3	84	85	84	0	72	77	64	69	58	50	91	78	86	83	78	0
LCC=	4	87	86	80	0	75	73	68	82	61	51	87	84	70	70	84	57
LCC=	6	80	82	80	0	77	79	74	79	67	55	88	76	71	67	76	60
LCC=	7	73	82	74	0	75	73	69	77	68	50	90	85	67	66	85	65
LCC=	8	78	89	81	0	77	84	76	78	54	51	86	80	68	62	80	61
LCC=	10	82	78	81	0	75	76	70	82	69	66	87	74	65	67	74	58
LCC=	11	79	89	79	0	81	74	78	78	74	60	88	81	68	63	61	62
LCC=	12	82	86	83	0	85	77	77	92	54	53	83	79	70	60	79	61
LCC=	18	81	0	83	0	73	69	67	74	72	69	95	85	70	73	85	80
LCC=	19	74	76	79	0	72	76	72	79	65	62	87	81	65	54	81	62
LCC=	20	0	0	0	0	50	0	0	0	0	50	100	95	0	0	95	0
LCC=	22	80	0	94	0	84	50	62	0	59	79	95	85	64	73	85	73
LCC=	23	82	86	80	0	79	72	72	78	80	75	85	81	67	59	81	64
LCC=	24	0	0	0	0	0	0	0	0	0	0	0	83	0	0	83	0
LCC=	27	0	0	0	0	0	0	0	0	0	84	100	81	0	76	81	0
LCC=	28	0	0	0	0	0	0	0	50	0	50	87	76	78	53	76	54

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		.32	.30	.33	.34	.00	.29	.32	.24	.00	.28	.17	.17	.00	.00
2		.00	.00	.26	.17	.17	.00	.26	.17	.17	.00	.00	.17	.17	.00

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8	
1		.420	.450	.170	0.000	.015	.015	.050	.100
2		.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6 1		396	234	284	299	0	234	220	198	0	188	296	266	0	0
6 2		0	0	100	243	200	0	150	201	150	0	0	190	220	0

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
6 1		1.0	4.0	1.0	1.0	0.0	8.7	2.1	3.4	0.0	15.0	3.8	3.8	0.0	0.0
6 2		0.0	0.0	22.0	5.5	13.0	0.0	29.9	13.2	22.0	0.0	0.0	13.5	12.7	0.0

RAINFALL FACTOR R = 81.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=6

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.47	1.67	.53	0.00	.05	.05	.19	.28	.63	.04	.05	.01	.59	.52	.01	0.00	.09
2	4.59	5.35	1.93	0.00	.16	.16	.49	1.01	2.19	.11	.12	.03	1.91	1.94	.03	.05	1.01
3	2.20	2.39	.89	0.00	.07	.07	.20	.43	.91	.05	.06	.01	1.07	1.04	.01	0.00	.36
4	1.81	1.92	.67	0.00	.06	.05	.17	.41	.76	.04	.04	.01	.69	.69	.01	.01	.13
6	11.49	14.82	5.46	0.00	.46	.48	1.49	3.17	6.73	.33	.35	.09	5.70	5.38	.09	.12	1.71
7	2.11	2.54	.86	0.00	.08	.08	.24	.53	1.17	.05	.06	.02	.92	.91	.02	.02	.33
8	2.82	3.44	1.18	0.00	.10	.11	.33	.67	1.16	.07	.07	.02	1.17	1.07	.02	.03	.13
10	27.42	27.95	10.96	0.00	.90	.91	2.79	6.53	13.74	.79	.69	.18	10.35	10.67	.18	.23	1.73
11	2.67	3.22	1.08	0.00	.10	.09	.31	.63	1.49	.07	.07	.02	1.09	1.01	.02	.02	.23
12	2.65	2.98	1.09	0.00	.10	.09	.30	.63	1.04	.06	.06	.02	1.08	.93	.02	.02	.13
18	34.19	0.00	14.18	0.00	1.10	1.04	3.37	7.44	18.09	1.04	.95	.26	14.07	14.67	.26	.40	2.22
19	4.02	4.42	1.74	0.00	.14	.15	.47	1.02	2.20	.12	.11	.03	1.68	1.40	.03	.04	.20
20	0.00	0.00	0.00	0.00	.30	0.00	0.00	0.00	0.00	.30	.40	.11	0.00	0.00	.11	0.00	.12
22	68.56	0.00	32.61	0.00	2.57	1.53	6.33	0.00	30.10	2.42	1.94	.52	26.12	29.79	.52	.74	3.15
23	14.07	15.01	5.56	0.00	.48	.44	1.47	3.19	8.17	.46	.35	.10	5.47	4.82	.10	.13	.41
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.20	0.00	0.00	.20	0.00	.20
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.52	.41	.10	0.00	6.25	.10	0.00	.84
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.01	0.00	.30	.35	.09	6.28	4.27	.09	.11	.55
	6.92	4.76	3.07	0.00	.26	.28	.89	1.79	5.58	.27	.32	.07	3.50	3.06	.07	.14	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=6

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	0.000	.001
2	.012	.007	.013	0.000	.001	.000	.002	.002	.009	.001	.001	.000	.004	.003	.001	.000	.075
3	.001	.001	.000	0.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	0.000	.003
4	.005	.001	.003	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001	.001	.000	.012
6	.080	.015	.048	0.000	.005	.002	.009	.003	.042	.003	.004	.001	.019	.019	.006	.000	.255
7	.009	.006	.005	0.000	.001	.000	.001	.000	.004	.001	.000	.000	.003	.006	.001	.000	.037
8	.008	.005	.005	0.000	.001	.000	.001	.001	.001	.001	.001	.001	.002	.008	.004	.000	.037
10	.018	.004	.011	0.000	.003	.002	.005	.003	.042	.003	.003	.001	.009	.010	.007	.000	.122
11	.007	.014	.004	0.000	.001	.000	.001	.000	.004	.001	.000	.000	.003	.011	.003	.000	.051
12	.004	.004	.001	0.000	.000	.000	.000	.000	.001	.000	.000	.000	.001	.005	.002	.000	.020
18	.012	0.000	.004	0.000	.001	.001	.002	.001	.009	.002	.006	.001	.009	.022	.004	.000	.075
19	.003	.000	.001	0.000	.000	.000	.001	.000	.002	.001	.000	.000	.002	.005	.002	.000	.018
20	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	.000	.000	0.000	0.000	.000	0.000	.000
22	.015	0.000	.012	0.000	.001	.000	.002	0.000	.015	.004	.006	.001	.005	.014	.008	.001	.086
23	.016	.007	.012	0.000	.001	.001	.003	.002	.016	.009	.004	.005	.015	.061	.033	.000	.185
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	.001	.080	0.000	.001
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	.000	.004	.013	.001	.002	.020
	.210	.065	.120	0.000	.015	.007	.027	.014	.146	.026	.026	.012	.077	.177	.073	.004	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=6

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.004	0.000	.006
2	.004	.001	.004	0.000	.005	.001	.002	.001	.002	.003	.003	.002	.001	.001	.012	.000	.041
3	.000	.000	.000	0.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	0.000	.005
4	.001	.000	.002	0.000	.003	.001	.001	.000	.000	.002	.004	.005	.000	.000	.033	.000	.054
6	.003	.001	.005	0.000	.006	.002	.003	.001	.003	.005	.006	.006	.002	.002	.037	.000	.082
7	.002	.001	.003	0.000	.006	.002	.003	.000	.002	.007	.004	.004	.002	.003	.024	.000	.063
8	.002	.001	.002	0.000	.004	.001	.001	.001	.000	.004	.007	.017	.001	.004	.108	.001	.154
10	.000	.000	.001	0.000	.002	.001	.001	.000	.002	.002	.003	.004	.000	.001	.023	.000	.039
11	.001	.002	.002	0.000	.003	.002	.003	.000	.002	.010	.003	.012	.002	.006	.072	.000	.120
12	.001	.001	.001	0.000	.000	.000	.000	.000	.000	.002	.003	.009	.001	.003	.059	.000	.081
18	.000	0.000	.000	0.000	.001	.000	.000	.000	.000	.001	.003	.001	.000	.001	.009	.000	.019
19	.000	.000	.000	0.000	.001	.001	.001	.000	.001	.004	.001	.005	.001	.002	.031	.001	.049
20	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	.000	.000	0.000	0.000	.001	0.000	.001
22	.000	0.000	.000	0.000	.000	.000	.000	0.000	.000	.001	.002	.001	.000	.000	.009	.001	.015
23	.001	.000	.001	0.000	.001	.001	.001	.000	.001	.010	.006	.030	.001	.007	.185	.001	.248
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	.000	.000	0.000	.001
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	.001	.000	.002	.007	.010	.020
	.017	.008	.022	0.000	.032	.014	.017	.004	.015	.054	.045	.099	.012	.032	.615	.015	

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)

(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1	639	0	638	0	1810	1055	204	217	0	310	3021	0	0	0	2971	6	
2	100	109	41	258	0	572	253	74	59	10	115	349	0	176	61	1455	10	
3	1	251	731	2145	0	917	1245	454	591	0	1897	282	0	442	39	4913	67	
4	100	59	62	92	0	218	95	105	23	0	64	187	0	68	55	1815	6	
6	100	6b	2	203	0	197	175	67	29	9	154	257	0	81	65	1818	7	
7	100	76	23	132	0	144	60	57	8	9	116	131	0	65	48	1308	13	
8	100	75	44	579	0	244	74	205	47	2	181	329	0	169	232	6284	28	
10	100	8	0	20	0	55	38	16	17	0	26	119	0	28	46	1052	4	
11	100	22	4	29	0	41	117	134	10	7	51	74	0	52	327	3505	24	
12	100	2	60	8	0	29	20	25	2	0	44	131	0	50	92	3111	15	
16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2627	24	
18	10	22	0	105	0	221	287	106	0	0	124	471	0	324	130	8231	162	
19	100	8	0	6	0	15	15	5	0	0	17	34	0	22	84	1385	10	
20	10	0	0	0	0	45	0	0	0	0	11	0	0	0	73	3500	0	
22	10	0	0	16	0	21	35	43	20	0	0	499	0	113	79	2188	33	
23	1000	0	0	1	0	0	3	6	0	0	6	16	0	7	41	1028	9	
24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2434	0
27	1	0	0	0	0	0	0	0	0	0	209	626	0	0	7068	6013	0	0
28	10	0	0	0	0	0	0	0	43	0	0	42	0	0	1857	3605	1614	0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	74	0	60	0	63	50	63	79	0	55	90	0	0	0	76	50
LCC=	2	79	74	74	0	76	75	68	74	70	53	88	0	57	64	76	76
LCC=	3	66	79	77	0	80	70	65	50	0	50	93	0	58	75	78	63
LCC=	4	86	86	83	0	83	76	82	84	0	51	88	0	53	57	76	58
LCC=	6	78	62	75	0	78	80	71	76	62	51	87	0	56	65	77	71
LCC=	7	86	87	77	0	80	77	75	84	50	51	90	0	55	69	74	67
LCC=	8	88	77	70	0	78	79	73	71	100	51	87	0	53	57	74	58
LCC=	10	76	0	75	0	89	73	59	72	0	50	87	0	61	71	74	72
LCC=	11	93	90	87	0	74	81	76	89	66	51	83	0	57	60	79	63
LCC=	12	59	59	67	0	84	65	55	76	0	50	97	0	53	59	76	59
LCC=	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	50
LCC=	18	100	0	87	0	79	74	77	0	0	67	90	0	59	74	78	79
LCC=	19	100	0	68	0	85	86	79	0	0	53	78	0	56	54	78	63
LCC=	20	0	0	0	0	50	0	0	0	0	50	0	0	0	50	76	0
LCC=	22	0	0	50	0	50	78	78	50	0	0	96	0	59	73	81	79
LCC=	23	0	100	50	0	50	90	60	0	0	53	94	0	55	60	76	63
LCC=	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
LCC=	27	0	0	0	0	0	0	0	0	0	50	80	0	0	52	69	0
LCC=	28	0	0	0	0	0	0	0	50	0	0	100	0	0	61	74	53

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC)

(K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.33	.28	.37	.43	.00	.28	.35	.24	.00	.28	.17	.17	.00	.00	.00
2	.17	.00	.28	.17	.17	.00	.29	.17	.17	.00	.00	.17	.17	.00	.00

COVER FACTOR BY LAND USE

(C)

LAND USE =	1	2	3	4	5	6	7	8
1	.420	.450	.170	0.000	.015	.015	.050	.100
2	.250	.015	.010	0.000	.200	.2.00	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC)

(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7 1	489	151	299	200	0	152	219	173	0	150	300	250	0	0	0
7 2	275	0	100	249	200	0	147	200	150	0	0	200	200	0	0

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7 1	1.0	4.0	1.0	1.0	0.0	9.0	2.0	3.7	0.0	15.0	4.0	4.0	0.0	0.0	0.0
7 2	4.0	0.0	22.0	4.1	13.0	0.0	29.6	12.9	22.0	0.0	0.0	13.0	13.0	0.0	0.0

RAINFALL FACTOR R = 75.

## SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=7

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.60	0.00	.53	0.00	.05	.04	.16	.41	0.00	.04	.05	0.00	0.00	0.00	.01	.01	.17
2	3.29	3.30	1.25	0.00	.11	.11	.34	.73	1.74	.08	.09	0.00	1.13	1.27	.02	.04	.38
3	1.38	1.77	.65	0.00	.06	.05	.16	.25	0.00	.04	.05	0.00	.58	.75	.01	.02	.27
4	1.86	1.99	.73	0.00	.06	.06	.21	.43	0.00	.04	.05	0.00	.54	.59	.01	.01	.16
6	9.95	8.48	3.87	0.00	.36	.36	1.08	2.31	4.71	.23	.26	0.00	3.40	3.95	.07	.11	.81
7	2.41	2.62	.87	0.00	.08	.08	.25	.56	.84	.05	.06	0.00	.74	.92	.01	.02	.24
8	3.05	2.86	.98	0.00	.10	.10	.30	.59	2.06	.06	.07	0.00	.87	.94	.02	.02	.18
10	21.02	0.00	8.40	0.00	.88	.72	1.94	4.74	0.00	.49	.57	0.00	8.03	9.35	.15	.24	.99
11	3.09	3.21	1.17	0.00	.09	.10	.30	.71	1.31	.06	.07	0.00	.90	.95	.02	.02	.14
12	1.83	1.96	.84	0.00	.09	.07	.20	.56	0.00	.06	.07	0.00	.78	.87	.02	.02	.09
16	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	.02	.02	.02
18	42.08	0.00	14.82	0.00	1.19	1.11	3.86	0.00	0.00	1.01	.90	0.00	11.82	14.83	.23	.40	1.16
19	3.59	0.00	.99	0.00	.11	.11	.34	0.00	0.00	.07	.07	0.00	.96	.92	.02	.03	.11
20	0.00	0.00	0.00	0.00	.28	0.00	0.00	0.00	0.00	.28	0.00	0.00	0.00	3.68	.08	0.00	.16
22	0.00	0.00	17.44	0.00	1.54	2.40	8.00	10.26	0.00	0.00	1.97	0.00	24.21	29.96	.50	.81	2.67
23	0.00	16.38	3.09	0.00	.27	.49	1.09	0.00	0.00	.29	.34	0.00	4.00	4.37	.08	.11	.28
24	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	.20	.20
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.28	.29	0.00	0.00	3.83	.08	0.00	2.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.84	0.00	0.00	.37	0.00	0.00	4.49	.08	.10	1.24
	4.38	2.49	1.67	0.00	.17	.22	.54	1.30	2.18	.13	.22	0.00	2.39	2.86	.05	.11	



FRACTION UF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=7

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.001	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	0.000	0.000	0.000	.000	.000	.001
2	.023	.009	.021	0.000	.004	.002	.002	.003	.001	.001	.002	0.000	.013	.005	.002	.000	.088
3	.000	.001	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	0.000	.000	.000	.000	.000	.002
4	.007	.008	.004	0.000	.001	.000	.001	.001	0.000	.000	.001	0.000	.002	.002	.001	.000	.029
6	.043	.001	.051	0.000	.005	.004	.005	.004	.003	.002	.004	0.000	.018	.017	.008	.000	.166
7	.012	.004	.008	0.000	.001	.000	.001	.000	.000	.000	.001	0.000	.003	.003	.001	.000	.034
8	.015	.008	.037	0.000	.002	.000	.004	.002	.000	.001	.002	0.000	.010	.014	.007	.000	.102
10	.011	0.000	.011	0.000	.003	.002	.002	.005	0.000	.001	.004	0.000	.015	.028	.010	.000	.092
11	.004	.001	.002	0.000	.000	.001	.003	.000	.001	.000	.000	0.000	.003	.020	.004	.000	.040
12	.000	.008	.000	0.000	.000	.000	.000	.000	0.000	.000	.001	0.000	.003	.005	.003	.000	.021
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	.000
18	.006	0.000	.010	0.000	.002	.002	.003	0.000	0.000	.001	.003	0.000	.025	.013	.013	.000	.077
19	.002	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.000	.000	0.000	.001	.005	.002	.000	.011
20	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.002	.002	0.000	.004
22	0.000	0.000	.002	0.000	.000	.001	.002	.001	0.000	0.000	.006	0.000	.018	.015	.007	.000	.053
23	0.000	0.000	.002	0.000	0.000	.001	.004	0.000	0.000	.001	.004	0.000	.018	.117	.056	.001	.203
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.800	.000	.000	0.000	0.000	.018	.000	0.000	.018
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	0.000	.000	0.000	0.000	.054	.002	.001	.058
	.125	.039	.150	0.000	.018	.014	.027	.018	.005	.008	.028	0.000	.129	.318	.120	.003	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION = 7

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.001	0.000	0.000	0.000	.001	.000	.002
2	.002	.001	.006	0.000	.013	.006	.002	.001	.000	.003	.008	0.000	.004	.001	.032	.000	.078
3	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	0.000	.000	.000	.001	.000	.003
4	.001	.001	.002	0.000	.005	.002	.002	.001	0.000	.001	.004	0.000	.002	.001	.040	.000	.063
6	.001	.000	.004	0.000	.004	.004	.001	.001	.000	.003	.006	0.000	.002	.001	.040	.000	.069
7	.002	.001	.003	0.000	.003	.001	.001	.000	.000	.003	.003	0.000	.001	.001	.029	.000	.048
8	.002	.001	.013	0.000	.005	.002	.005	.001	.000	.004	.007	0.000	.004	.005	.139	.001	.188
10	.000	0.000	.000	0.000	.001	.001	.000	.000	0.000	.001	.003	0.000	.001	.001	.023	.000	.032
11	.000	.000	.001	0.000	.001	.003	.003	.000	.000	.001	.002	0.000	.001	.007	.077	.001	.097
12	.000	.001	.000	0.000	.001	.000	.001	.000	0.000	.001	.003	0.000	.001	.002	.069	.000	.079
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	.001
18	.000	0.000	.000	0.000	.000	.001	.000	0.000	0.000	.000	.001	0.000	.001	.000	.018	.000	.023
19	.000	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.000	.001	0.000	.000	.002	.031	.000	.035
20	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.000	.008	0.000	.008
22	0.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	0.000	.001	0.000	.000	.000	.005	.000	.007
23	0.000	0.000	.000	0.000	0.000	.001	.001	0.000	0.000	.001	.004	0.000	.002	.009	.227	.002	.247
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	.001
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	.002	.001	0.000	.003
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	0.000	0.000	.004	.008	.004	.016
	.010	.005	.030	0.000	.035	.021	.017	.005	.001	.019	.042	0.000	.018	.038	.750	.009	

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)

(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	6657	2378	7638	0	7440	332	2206	611	0	1492	1244	1719	1873	2018	5589	0
2	10	6521	2815	6210	0	6917	629	2787	1530	179	3062	1697	1375	1823	1131	3600	55
3	1	3362	1334	3231	0	6164	96	1782	913	199	579	380	1719	408	3785	2889	3
4	100	2320	5189	3486	0	2147	69	356	281	28	495	433	722	689	521	1824	34
6	10	1815	568	2250	0	2909	549	680	440	761	710	1805	1375	882	714	3625	153
7	10	1852	833	1890	0	1954	419	1095	516	1891	797	1269	1375	842	748	3348	50
8	100	682	1044	698	0	621	81	223	214	10	642	535	1839	327	318	4606	63
10	10	546	266	704	0	676	215	410	116	44	962	900	859	231	226	2121	142
11	10	481	162	451	0	820	71	407	116	0	990	602	2578	410	266	6488	57
12	100	77	102	84	0	33	10	26	57	4	206	79	516	52	111	1283	20
15	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	226	0
18	10	181	31	210	0	503	120	541	79	31	702	482	516	117	287	1151	10
19	10	116	0	43	0	131	4	20	84	0	145	62	516	57	119	1316	12
20	1	0	1002	143	0	0	0	0	0	0	0	824	0	0	0	1990	0
22	1	242	0	42	0	585	1712	143	0	0	3356	4357	3437	987	1068	9102	44
23	100	31	5	20	0	16	14	2	20	2	127	56	584	54	134	1463	7
24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184	0
28	1	0	456	0	0	0	0	0	0	759	42	0	1719	1927	1134	4382	890

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	67	71	71	0	74	78	69	58	0	50	95	87	86	61	87	0
LCC=	2	79	76	77	0	79	65	71	70	50	51	93	79	66	61	79	62
LCC=	3	91	87	82	0	83	65	56	63	50	50	99	87	81	56	87	50
LCC=	4	85	86	85	0	84	77	80	83	50	50	87	83	74	59	83	68
LCC=	6	80	77	75	0	78	65	67	75	80	54	94	83	69	63	83	50
LCC=	7	80	84	77	0	74	64	74	77	62	52	93	81	66	62	81	50
LCC=	8	82	82	81	0	78	68	77	80	50	52	89	83	68	59	83	61
LCC=	10	85	86	80	0	70	75	72	78	50	59	92	85	69	65	85	50
LCC=	11	88	78	78	0	66	67	71	66	0	52	92	82	66	58	82	50
LCC=	12	91	82	84	0	86	70	73	69	50	51	91	84	61	63	84	70
LCC=	15	0	0	0	0	0	0	0	0	0	0	0	79	0	0	79	0
LCC=	18	76	61	77	0	73	69	63	78	50	56	92	84	81	64	84	50
LCC=	19	88	0	92	0	56	78	68	58	0	51	100	84	66	55	84	50
LCC=	20	0	100	100	0	0	0	0	0	0	0	91	95	0	0	95	0
LCC=	22	63	0	100	0	60	55	60	0	0	58	97	86	70	61	86	50
LCC=	23	80	100	79	0	78	72	67	60	100	67	89	85	62	54	85	50
LCC=	24	0	0	0	0	0	0	0	0	0	0	0	85	0	0	95	0
LCC=	28	0	50	0	0	0	0	0	0	50	50	0	81	67	62	81	50

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1		.37	.36	.36	.41	.00	.37	.33	.24	.00	.36	.17	.17	.00	.00	.17
2		.00	.00	.38	.17	.17	.00	.37	.17	.17	.00	.00	.00	.17	.00	

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8	
1		.420	.450	.170	0.000	.015	.015	.050	.100
2		.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
8 1		234	196	300	243	0	169	281	315	0	150	277	250	0	0	275
8 2		0	0	100	250	216	0	106	209	100	0	0	0	182	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
8 1		1.0	4.0	1.0	1.0	0.0	9.0	1.7	2.1	0.0	15.0	4.0	4.0	0.0	0.0	4.0
8 2		0.0	0.0	15.5	4.0	7.0	0.0	22.9	9.8	15.0	0.0	0.0	0.0	10.4	0.0	

RAINFALL FACTOR R = 85.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=8

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.48	1.68	.63	0.00	.06	.06	.18	.30	0.00	.04	.05	.01	.90	.64	.01	0.00	.56
2	5.32	5.48	2.10	0.00	.19	.16	.57	1.12	2.00	.12	.15	.04	2.12	1.96	.04	.05	1.86
3	2.10	2.16	.77	0.00	.07	.05	.15	.35	.69	.04	.05	.01	.89	.62	.01	.01	.61
4	2.10	2.28	.85	0.00	.07	.07	.24	.49	.74	.04	.05	.01	.87	.69	.01	.02	1.14
6	16.12	16.63	6.12	0.00	.56	.47	1.61	3.60	9.60	.39	.45	.12	6.62	6.05	.12	.12	3.58
7	2.29	2.58	.89	0.00	.08	.07	.25	.52	1.06	.05	.06	.02	.90	.85	.02	.02	.59
8	2.07	2.22	.83	0.00	.07	.06	.23	.48	.75	.05	.05	.01	.82	.71	.01	.02	.43
10	34.26	37.14	13.05	0.00	1.01	1.08	3.45	7.48	11.99	.85	.88	.24	13.24	12.47	.24	.24	5.91
11	3.21	3.05	1.15	0.00	.09	.09	.31	.57	0.00	.07	.08	.02	1.15	1.01	.02	.02	.28
12	3.19	3.08	1.19	0.00	.11	.09	.30	.58	1.04	.06	.08	.02	1.02	1.05	.02	.03	.35
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.02	0.00	0.00	.02	0.00	.02
18	27.82	23.92	11.41	0.00	.95	.90	2.75	6.80	10.89	.73	.80	.22	14.12	11.16	.22	.22	3.48
19	3.09	0.00	1.31	0.00	.07	.10	.28	.48	0.00	.06	.08	.02	1.10	.92	.02	.02	.26
20	0.00	7.88	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.16	.05	0.00	0.00	.05	0.00	2.16
22	43.67	0.00	28.06	0.00	1.49	1.36	4.95	0.00	0.00	1.44	1.60	.43	23.11	20.14	.43	.41	3.08
23	9.33	12.50	3.73	0.00	.32	.30	.93	1.67	6.94	.28	.25	.07	3.44	3.00	.07	.07	.50
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.09	0.00	0.00	.09	0.00	.09
28	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	3.54	.21	0.00	.07	3.79	3.51	.07	.07	1.54
	3.78	2.70	1.41	0.00	.15	.28	.61	.94	2.75	.16	.21	.04	1.86	1.82	.04	.05	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=8

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.001	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.000	0.000	.004
2	.066	.029	.025	0.000	.002	.000	.003	.001	.001	.001	.000	.000	.007	.004	.000	.000	.143
3	.001	.001	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003
4	.093	.226	.056	0.000	.003	.000	.002	.003	.000	.000	.000	.000	.011	.007	.001	.000	.401
6	.056	.018	.026	0.000	.003	.000	.002	.003	.001	.001	.002	.000	.011	.008	.001	.000	.133
7	.000	.004	.001	0.000	.000	.000	.001	.001	.000	.000	.000	.000	.001	.001	.000	.000	.020
8	.027	.044	.011	0.000	.001	.000	.001	.002	.000	.001	.001	.001	.005	.004	.001	.000	.098
10	.036	.019	.011	0.000	.001	.000	.001	.002	.001	.002	.002	.000	.006	.005	.001	.000	.094
11	.003	.001	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.001	.001	.000	.000	.007
12	.005	.006	.002	0.000	.000	.000	.000	.001	.000	.000	.000	.000	.001	.002	.001	.000	.018
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
18	.010	.001	.005	0.000	.001	.000	.003	.001	.001	.001	.001	.000	.003	.006	.000	.000	.033
19	.001	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.001
20	0.000	.002	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.000	0.000	.002
22	.002	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.001	.001	.000	.004	.004	.001	.000	.015
23	.005	.001	.001	0.000	.000	.000	.000	.001	.000	.001	.000	.001	.004	.008	.002	.000	.024
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
28	0.000	.001	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	.000	.001	.001	.000	.000	.003
	.313	.352	.150	0.000	.013	.002	.014	.016	.006	.008	.007	.003	.057	.052	.008	.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=8

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.001	.000	.002	0.000	.002	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.001	0.000	.009
2	.014	.006	.013	0.000	.015	.001	.006	.003	.000	.006	.004	.003	.004	.002	.008	.000	.085
3	.001	.000	.001	0.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001	.000	.006
4	.049	.109	.073	0.000	.045	.001	.007	.006	.001	.010	.009	.015	.014	.011	.038	.001	.391
6	.004	.001	.005	0.000	.006	.001	.001	.001	.000	.004	.004	.003	.002	.002	.008	.000	.041
7	.004	.002	.004	0.000	.004	.001	.002	.001	.000	.004	.003	.003	.002	.002	.007	.000	.038
8	.014	.022	.015	0.000	.013	.002	.005	.004	.000	.013	.011	.039	.007	.007	.097	.001	.250
10	.001	.001	.001	0.000	.001	.000	.001	.000	.000	.002	.002	.002	.000	.000	.004	.000	.018
11	.001	.000	.001	0.000	.002	.000	.001	.000	0.000	.002	.001	.005	.001	.001	.014	.000	.029
12	.002	.002	.002	0.000	.001	.000	.001	.001	.000	.004	.002	.011	.001	.002	.027	.000	.056
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
18	.000	.000	.000	0.000	.001	.004	.001	.009	.000	.001	.001	.001	.000	.001	.002	.000	.010
19	.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.001	.000	.000	.003	.000	.006
20	0.000	.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.000	0.000	.001
22	.000	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.001	.001	.001	.000	.000	.002	.000	.005
23	.001	.000	.000	0.000	.000	.000	.000	.000	.000	.003	.001	.012	.001	.003	.031	.000	.053
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
28	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	.001	.000	.002
	.092	.144	.117	0.000	.091	.008	.026	.018	.002	.052	.039	.097	.034	.032	.243	.004	

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	5597	1331	6839	0	6731	748	2210	1542	545	2576	1966	9419	2735	1155	9054	122
2	10	4523	1197	4069	0	6577	1101	4208	1015	357	1524	929	4238	1203	1440	3757	47
3	1	2894	834	3398	0	3414	611	2611	781	344	2078	1576	7063	688	2369	5144	121
4	100	1072	641	1161	0	1410	104	244	222	10	578	226	1177	339	160	1034	25
6	10	1772	354	1572	0	3103	584	1111	364	127	1346	893	4474	630	972	3794	48
7	10	1472	213	1334	0	1111	295	1123	365	179	663	536	1413	462	484	1294	19
8	100	343	106	316	0	327	24	106	92	34	490	180	1436	275	200	1259	25
10	10	496	68	344	0	714	248	447	201	32	701	408	3532	104	227	3163	38
11	10	675	553	235	0	530	116	324	88	26	677	152	1648	442	233	1441	33
12	10	444	121	63	0	283	0	59	56	0	576	146	3296	126	368	2856	67
18	10	351	33	248	0	652	151	527	158	4	856	384	2119	104	426	1831	23
19	1	657	0	31	0	196	0	138	283	0	913	552	4709	265	0	3186	63
20		1349	0	0	0	0	0	0	899	0	0	0	0	0	0	0	0
22	10	43	20	56	0	183	142	57	0	0	545	521	1413	118	280	1241	19
23	1	661	0	735	0	686	193	266	201	0	2085	1084	9418	1085	2185	8765	146
24	1	0	0	0	0	0	0	0	0	0	0	450	0	0	432	0	0
29	1	0	195	0	0	0	0	0	0	325	0	0	2355	355	97	1143	52

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	76	71	72	0	73	72	57	53	50	57	100	85	77	64	85	50
LCC=	2	68	68	71	0	68	62	67	65	63	50	85	83	71	65	83	55
LCC=	3	76	78	73	0	69	63	62	70	50	50	96	87	78	65	87	52
LCC=	4	83	84	84	0	85	78	84	86	52	52	86	80	71	60	80	51
LCC=	6	66	66	69	0	65	59	61	67	67	52	85	84	72	65	84	54
LCC=	7	75	82	75	0	76	63	58	74	55	51	80	84	70	64	84	53
LCC=	8	85	81	85	0	85	74	82	84	57	59	87	83	66	62	83	53
LCC=	10	67	65	67	0	65	66	60	67	50	58	85	84	71	66	84	54
LCC=	11	88	92	76	n	71	78	69	79	65	51	86	81	63	60	81	51
LCC=	12	93	94	83	0	96	0	75	89	0	50	93	79	69	55	79	51
LCC=	18	67	67	69	0	63	63	62	63	100	57	85	84	63	65	84	54
LCC=	19	92	0	78	0	61	0	63	56	0	50	100	84	70	0	83	50
LCC=	20	100	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0
LCC=	22	70	85	68	0	61	57	60	0	0	59	81	85	59	64	85	51
LCC=	23	95	0	95	0	92	50	57	86	0	57	97	84	75	62	84	50
LCC=	24	0	0	0	0	0	0	0	0	0	0	100	0	0	75	0	0
LCC=	28	0	50	0	0	0	0	0	0	50	0	0	78	71	75	78	50

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS(LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1		.37	.37	.36	.41	.00	.38	.32	.24	.00	.37	.17	.17	.00	.00	.00
2		.00	.00	.37	.17	.17	.00	.39	.17	.17	.00	.00	.00	.17	.00	

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8	
1		.420	.450	.170	0.000	.015	.015	.050	.100
2		.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9 1	200	200	300	238	0	175	300	307	0	150	250	250	0	0	0
9 2	0	0	100	250	175	0	100	193	151	0	0	0	175	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9 1	1.0	4.0	1.0	1.0	0.0	9.0	1.8	2.4	0.0	15.0	4.0	4.0	0.0	0.0	0.0
9 2	0.0	0.0	15.0	4.0	9.5	0.0	22.0	8.4	11.9	0.0	0.0	0.0	9.5	0.0	

RAINFALL FACTOR R = 90.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=9

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.69	1.70	.65	0.00	.06	.06	.15	.28	.66	.05	.05	.01	.82	.68	.01	.01	.40
2	5.03	5.38	2.12	0.00	.10	.16	.59	1.14	2.77	.13	.15	.04	2.50	2.29	.04	.05	1.40
3	1.86	2.05	.72	0.00	.06	.06	.10	.41	.73	.04	.06	.02	.91	.76	.02	.02	.40
4	2.16	2.34	.88	0.00	.08	.07	.26	.53	.81	.05	.05	.01	.88	.74	.01	.02	.67
6	14.72	16.25	6.23	0.00	.52	.47	1.62	3.56	8.89	.41	.45	.13	7.65	6.90	.13	.14	2.90
7	2.34	2.74	.95	0.00	.00	.07	.22	.55	1.02	.06	.06	.02	1.04	.95	.02	.02	.65
8	2.53	2.58	1.02	0.00	.09	.00	.29	.59	1.01	.06	.06	.02	.93	.88	.02	.02	.41
10	29.39	30.54	11.89	0.00	1.02	1.03	3.13	7.00	13.05	.91	.89	.26	14.83	13.78	.26	.28	3.02
11	3.27	3.66	1.14	0.00	.09	.10	.30	.70	1.44	.07	.08	.02	1.11	1.06	.02	.02	.79
12	3.45	3.74	1.25	0.00	.13	0.00	.33	.79	0.00	.07	.08	.02	1.22	.97	.02	.02	.34
18	23.99	24.94	10.00	0.00	.81	.81	2.64	5.37	21.32	.73	.72	.21	10.74	11.08	.21	.23	2.83
19	3.42	0.00	1.17	0.00	.08	0.00	.28	.49	0.00	.07	.09	.02	1.24	0.00	.02	.02	.28
20	10.80	0.00	0.00	0.00	0.00	0.00	0.00	2.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.51
22	49.24	64.06	19.36	0.00	1.53	1.43	5.02	0.00	0.00	1.48	1.36	.43	19.76	21.44	.43	.43	3.50
23	9.01	0.00	3.65	0.00	.31	.17	.64	1.94	0.00	.19	.22	.06	3.39	2.80	.06	.06	.76
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.33	0.00	0.00	5.02	0.00	0.00	2.63
28	0.00	5.78	0.00	0.00	0.00	0.00	0.00	0.00	3.21	0.00	0.00	.06	3.65	3.86	.06	.06	.90
	4.66	3.67	1.77	0.00	.19	.29	.74	1.23	2.67	.20	.26	.07	2.06	3.35	.07	.05	

ENACTON OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=9

LCC.	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.003	.001	.002	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.007
2	.080	.023	.030	0.000	.004	.001	.009	.004	.003	.001	.000	.001	.011	.012	.001	.000	.178
3	.002	.001	.001	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.005
4	.081	.053	.036	0.000	.004	.000	.002	.004	.000	.001	.000	.001	.010	.004	.001	.000	.190
6	.092	.020	.034	0.000	.006	.001	.006	.005	.004	.002	.001	.002	.017	.024	.002	.000	.215
7	.012	.002	.004	0.000	.000	.000	.001	.001	.001	.000	.000	.000	.002	.002	.000	.000	.025
8	.030	.010	.011	0.000	.001	.000	.001	.002	.001	.001	.000	.001	.009	.006	.001	.000	.075
10	.051	.007	.014	0.000	.003	.001	.005	.005	.001	.002	.001	.003	.005	.011	.003	.000	.114
11	.008	.007	.001	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.001	.000	.000	.020
12	.005	.002	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	.000	.001	.001	.000	.000	.010
18	.030	.003	.009	0.000	.002	.000	.005	.003	.000	.002	.001	.002	.004	.017	.001	.000	.078
19	.001	0.000	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.001
20	.005	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.006
22	.007	.005	.004	0.000	.001	.001	.001	0.000	0.000	.003	.002	.002	.008	.021	.002	.000	.057
23	.002	0.000	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.001	.002	.000	.000	.007
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.001	0.000	0.000	.001
28	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.000	.000	.000	.000	.001
	.410	.133	.148	0.000	.021	.004	.031	.025	.012	.013	.008	.012	.071	.102	.011	.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=9

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.001	.003	0.000	.003	.000	.001	.001	.000	.001	.001	.004	.001	.000	.004	.000	.020
2	.018	.005	.016	0.000	.026	.004	.016	.004	.001	.006	.004	.017	.005	.006	.015	.000	.141
3	.001	.000	.001	0.000	.001	.000	.001	.000	.000	.001	.001	.003	.000	.001	.002	.000	.013
4	.042	.025	.045	0.000	.055	.004	.010	.009	.000	.023	.009	.046	.013	.006	.040	.001	.327
6	.007	.001	.006	0.000	.012	.002	.004	.001	.000	.005	.003	.017	.002	.004	.015	.000	.082
7	.006	.001	.005	0.000	.004	.001	.004	.001	.001	.003	.002	.006	.002	.002	.005	.000	.043
8	.013	.004	.012	0.000	.013	.001	.004	.004	.001	.019	.007	.056	.011	.008	.049	.001	.203
10	.002	.000	.001	0.000	.003	.001	.002	.001	.000	.003	.002	.014	.000	.001	.012	.000	.042
11	.003	.002	.001	0.000	.002	.000	.001	.000	.000	.003	.001	.006	.002	.001	.006	.000	.028
12	.002	.000	.000	0.000	.001	0.000	.000	.000	0.000	.002	.001	.013	.000	.001	.011	.000	.033
18	.001	.000	.001	0.000	.003	.001	.002	.001	.000	.003	.001	.008	.000	.002	.007	.000	.031
19	.000	0.000	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	.002	.000	0.000	.001	.000	.004
20	.001	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001
22	.000	.000	.000	0.000	.001	.001	.000	0.000	0.000	.002	.002	.006	.000	.001	.005	.000	.018
21	.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.001	.000	.004	.000	.001	.003	.000	.011
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	0.000	0.000	.000
28	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.001	.000	.000	.000	.000	.002
	.098	.040	.093	0.000	.123	.016	.046	.022	.005	.071	.033	.201	.038	.034	.176	.003	

REGION=10

WESTERN LAKE ERIE

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)		(ACRES x FACTOR X)															
LCC	x	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	3340	1962	1160	0	660	0	500	245	32	122	938	0	711	35	2502	0
2	100	1390	1153	1133	6	575	40	398	140	5	84	335	0	323	77	552	2
3	10	1190	826	881	9	432	0	387	46	80	33	230	0	288	287	306	4
4	1000	1072	1000	607	1	297	11	244	44	3	13	87	0	115	27	287	2
6	10	5851	3921	4627	91	3561	322	2394	1208	68	355	2277	0	1346	282	3195	53
7	10	2734	2748	1317	3	514	13	638	199	30	195	485	0	475	430	2098	5
8	100	2843	3684	1974	1	1059	15	832	113	35	223	477	0	581	288	1711	7
10	10	1011	798	1188	19	1788	271	654	80	30	399	804	0	488	94	1049	0
11	1	8310	6213	6988	0	2137	126	1701	835	158	1692	744	0	2930	1772	6941	0
12	10	949	315	503	0	392	0	461	207	76	314	115	0	359	433	1188	22
18	1	1381	2584	2563	0	6966	369	1644	1197	0	3182	8039	0	3397	710	8277	0
19	1	797	41	699	0	519	0	0	500	79	0	3190	0	1728	1803	5743	63
20	1	159	0	0	0	31	0	64	31	0	32	0	0	317	0	447	0
22	10	147	60	66	0	71	0	24	135	0	172	478	0	228	81	1048	0
23	1	0	0	0	0	0	0	0	0	0	0	275	0	31	0	143	19
24	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176	0
27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0
28	1	0	0	0	0	0	0	446	0	0	32	159	0	971	628	472	0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)																	
LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	65	65	63	0	74	0	65	59	50	59	85	0	59	64	98	0
LCC=	2	79	75	80	84	76	82	73	80	50	64	84	0	60	58	86	50
LCC=	3	87	85	85	93	86	0	74	64	50	50	80	0	64	57	85	50
LCC=	4	86	86	86	75	86	86	86	98	58	88	77	0	58	57	86	50
LCC=	6	86	86	87	90	89	90	85	90	66	84	85	0	59	61	95	50
LCC=	7	88	88	90	94	81	85	86	91	50	52	76	0	57	59	86	50
LCC=	8	87	88	88	79	89	91	87	91	63	66	75	0	57	56	84	50
LCC=	10	91	94	88	82	92	86	91	85	60	71	87	0	60	60	84	0
LCC=	11	79	81	79	0	77	70	71	82	50	80	68	0	63	60	77	0
LCC=	12	80	93	82	0	75	0	82	90	50	50	88	0	59	65	82	50
LCC=	19	92	99	97	0	87	100	68	85	0	76	84	0	57	58	88	0
LCC=	19	95	79	88	0	90	0	0	79	50	0	62	0	53	64	76	50
LCC=	20	94	0	0	0	100	0	92	100	0	50	0	0	66	0	90	0
LCC=	22	90	99	98	0	100	0	64	79	0	55	80	0	61	56	88	0
LCC=	23	0	0	0	0	0	0	0	0	0	0	100	0	77	0	90	50
LCC=	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	0
LCC=	27	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0
LCC=	29	0	0	0	0	0	0	97	0	0	100	100	0	77	70	97	0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)																	
LCC=		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
LCC=	1	.37	.37	.33	.39	.00	.38	.33	.24	.00	.38	.18	.18	.00	.00	.00	
LCC=	2	.00	.00	.38	.18	.19	.00	.36	.23	.17	.00	.00	.19	.19	.00		

COVER FACTOR BY LANG USE (C)									
LAND USE=		1	2	3	4	5	6	7	8
LAND USE=	1	.439	.450	.170	.300	.015	.015	.050	.100
LAND USE=	2	.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)																	
REGSEQ		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
REGSEQ	10 1	379	155	260	326	0	197	299	359	0	194	237	217	0	0	0	
REGSEQ	10 2	0	0	174	234	146	0	179	160	200	0	0	125	125	0		

SLOPE (PERCENT) BY LAND CAPABILITY CLASS(LCC)																	
REGSEQ		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
REGSEQ	10 1	1.0	4.0	1.4	1.0	0.0	8.1	1.2	1.1	0.0	14.8	4.0	3.8	0.0	0.0	0.0	
REGSEQ	10 2	0.0	0.0	21.4	4.8	6.5	0.0	35.4	12.9	9.0	0.0	0.0	6.5	6.5	0.0		

RAINFALL FACTOR R = 123.



SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 10

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	2.51	2.57	.94	0.00	.10	0.00	.29	.52	1.10	.08	.07	0.00	1.04	1.12	.02	0.00	1.29
2	7.53	7.33	2.95	5.47	.25	.27	.79	1.74	2.71	.21	.18	0.00	2.61	2.52	.06	.05	3.99
3	3.30	3.31	1.25	2.41	.11	0.00	.32	.55	1.08	.06	.07	0.00	1.11	.99	.02	.02	1.74
4	3.34	3.43	1.29	1.99	.11	.11	.38	.78	1.28	.12	.07	0.00	1.03	1.01	.02	.02	2.13
6	24.99	25.63	9.80	17.88	.88	.89	2.81	5.96	10.93	.83	.56	0.00	7.82	8.08	.17	.17	11.05
7	3.10	3.18	1.23	2.27	.10	.10	.35	.73	1.01	.06	.06	0.00	.92	.95	.02	.02	1.70
8	2.25	2.33	.88	1.40	.08	.08	.26	.54	.93	.06	.04	0.00	.67	.66	.01	.01	1.28
10	65.14	69.02	24.41	40.14	2.25	2.10	7.42	13.87	24.47	1.74	1.42	0.00	19.58	19.58	.41	0.00	20.25
11	4.34	4.56	1.68	0.00	.14	.13	.44	1.03	1.56	.15	.09	0.00	1.58	1.50	.03	0.00	2.12
12	4.01	4.78	1.59	0.00	.13	0.00	.47	1.03	1.43	.09	.10	0.00	1.35	1.49	.03	.03	1.48
18	113.44	125.23	46.35	0.00	3.67	4.22	9.56	23.89	0.00	3.20	2.36	0.00	32.04	32.61	.74	0.00	20.78
19	7.20	6.14	2.58	0.00	.23	0.00	0.00	1.36	2.16	0.00	.11	0.00	1.83	2.21	.04	.04	1.09
20	8.10	0.00	0.00	0.00	.32	0.00	.97	2.11	0.00	.16	0.00	0.00	2.78	0.00	.06	0.00	2.25
22	243.55	274.82	102.77	0.00	9.25	0.00	19.74	48.73	0.00	5.09	4.94	0.00	75.26	69.09	1.63	0.00	37.64
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.72	0.00	11.12	0.00	.20	.18	1.23
24	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	.09	0.00	.09
21	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	2.81	0.00	0.00	2.81
28	0.00	0.00	0.00	0.00	0.00	0.00	.95	0.00	0.00	.29	.20	0.00	3.01	2.73	.06	0.00	1.89
	4.94	4.62	2.23	10.14	.30	.55	.69	2.67	2.52	.53	.35	0.00	2.97	2.45	.07	.04	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION= 10

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.004	.003	.001	0.000	.000	0.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	0.000	.008
2	.053	.043	.017	.000	.001	.000	.002	.001	.000	.000	.000	0.000	.004	.001	.000	.000	.172
3	.002	.001	.001	.000	.000	0.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.004
4	.101	.173	.040	.000	.002	.000	.005	.002	.000	.000	.000	0.000	.006	.001	.000	.000	.411
6	.074	.051	.023	.001	.002	.000	.003	.004	.000	.000	.001	0.000	.005	.001	.000	.000	.165
7	.004	.004	.001	.000	.000	.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.010
8	.032	.044	.009	.000	.000	.000	.001	.000	.000	.000	.000	0.000	.002	.001	.000	.000	.090
10	.033	.028	.015	.000	.002	.000	.002	.001	.000	.000	.001	0.000	.005	.001	.000	0.000	.089
11	.002	.001	.001	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	0.000	.004
12	.002	.001	.000	0.000	.000	0.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.004
18	.008	.016	.006	0.000	.001	.000	.001	.001	0.000	.001	.001	0.000	.006	.001	.000	0.000	.042
19	.000	.000	.000	0.000	.000	0.000	0.000	.000	.000	0.000	.000	0.000	.000	.000	.000	.000	.001
20	.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000	.000	0.000	0.000	.000	0.000	.000	0.000	.000
22	.018	.008	.003	0.000	.000	0.000	.000	.003	0.000	.000	.001	0.000	.009	.003	.001	0.000	.048
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	.000	.000	.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
28	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	0.000	.000
	.415	.374	.116	.001	.008	.001	.015	.013	.001	.002	.004	0.000	.038	.011	.002	.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 10

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.005	.003	.002	0.000	.001	0.000	.001	.000	.000	.000	.001	0.000	.001	.000	.004	0.000	.018
2	.021	.017	.017	.000	.009	.001	.006	.002	.000	.001	.005	0.000	.005	.001	.000	.000	.093
3	.002	.001	.001	.000	.001	0.000	.001	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.007
4	.161	.150	.091	.000	.045	.002	.037	.007	.000	.002	.013	0.000	.017	.004	.043	.000	.571
6	.009	.006	.007	.000	.005	.000	.004	.002	.000	.001	.003	0.000	.002	.000	.005	.000	.044
7	.004	.004	.002	.000	.001	.000	.001	.000	.000	.000	.001	0.000	.001	.001	.003	.000	.018
8	.043	.055	.030	.000	.016	.000	.012	.002	.001	.003	.007	0.000	.009	.004	.026	.000	.208
10	.002	.001	.002	.000	.003	.000	.001	.000	.000	.001	.001	0.000	.001	.000	.002	0.000	.013
11	.001	.001	.001	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.000	.000	.001	0.000	.006
12	.001	.000	.001	0.000	.001	0.000	.001	.000	.000	.000	.000	0.000	.001	.001	.002	.000	.008
18	.000	.000	.000	0.000	.001	.000	.000	.000	0.000	.000	.001	0.000	.001	.000	.001	0.000	.006
19	.000	.000	.000	0.000	.000	0.000	0.000	.000	.000	0.000	.000	0.000	.000	.000	.001	.000	.002
20	.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000	.000	0.000	0.000	.000	0.000	.000	0.000	.000
22	.000	.000	.000	0.000	.000	0.000	.000	.000	0.000	.000	.001	0.000	.000	.000	.002	0.000	.004
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	.000	.000	.000
24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
27	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
28	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	0.000	.000
	.249	.240	.154	.000	.082	.003	.063	.014	.002	.010	.035	0.000	.038	.013	.097	.001	

REGION=11

SOUTHERN LAKE ERIE

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)		(ACRES X FACTOR X)															
LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	47	11	129	0	52	11	6	118	0	93	192	0	6	202	1134	15
2	10	1543	398	1133	0	1591	1038	735	298	124	1416	1202	0	1470	1786	4343	15
3	1	2914	1240	219	0	369	753	509	0	590	548	41	0	42	2101	1797	294
4	10	774	796	797	0	843	339	285	379	122	589	1408	0	825	1435	4191	194
6	10	687	693	714	0	993	571	956	234	144	705	1301	0	809	915	3367	190
7	1	452	0	0	0	0	202	0	74	177	424	0	0	2407	3885	3621	0
8	100	474	371	327	0	802	201	326	238	30	542	443	0	541	523	1798	75
10	10	269	133	299	0	407	524	316	213	16	369	620	0	811	405	2411	112
11	1	0	1589	0	0	0	177	0	1495	296	513	0	0	0	0	1943	0
12	10	309	119	128	0	146	228	109	184	6	800	275	0	583	634	2939	23
16	1	0	0	0	0	0	0	0	0	0	0	530	0	0	533	2032	6
18	10	125	11	140	0	115	152	11	33	5	71	342	0	386	286	1827	33
19	1	0	0	0	0	0	0	0	0	177	0	0	0	0	177	0	0
20	10	0	0	0	0	47	0	0	0	0	22	396	0	386	372	1599	168
22	10	0	0	0	0	0	0	15	0	137	19	93	0	34	88	2016	89
23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209	0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	82	100	70	0	90	61	61	97	0	68	80	0	57	80	90	53
LCC=	2	66	63	64	0	66	67	70	62	52	86	78	0	62	77	88	53
LCC=	3	78	50	50	0	51	50	50	0	50	83	100	0	60	83	90	53
LCC=	4	86	81	82	0	80	87	87	81	50	86	82	0	69	81	90	53
LCC=	6	74	69	74	0	79	73	83	79	59	86	83	0	60	76	89	82
LCC=	7	62	0	0	0	0	50	0	50	50	50	0	0	61	75	93	0
LCC=	8	83	86	83	0	81	84	86	86	56	82	85	0	67	79	91	63
LCC=	10	92	79	83	0	78	71	80	96	52	95	79	0	63	66	89	89
LCC=	11	0	50	0	0	0	50	0	50	50	55	0	0	0	0	89	0
LCC=	12	89	92	98	0	95	93	70	93	100	97	83	0	63	76	90	52
LCC=	16	0	0	0	0	0	0	0	0	0	0	93	0	0	91	A6	50
LCC=	19	90	100	100	0	99	52	100	100	75	95	96	0	64	81	91	51
LCC=	19	0	0	0	0	0	0	0	0	50	0	0	0	0	75	0	0
LCC=	20	0	0	0	0	100	0	0	0	0	100	95	0	58	71	89	81
LCC=	22	0	0	0	0	0	0	100	0	58	100	94	0	67	80	90	71
LCC=	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1		.32	.32	.25	.21	.00	.34	.45	.33	.00	.35	.17	.22	.00	.00	.00
2		.27	.00	.39	.24	.24	.00	.38	.24	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR By LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8	
1		.439	.450	.170	0.000	.015	.015	.050	.100
2		.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11 1	586	372	195	178	0	139	283	235	0	123	200	331	0	0	0
11 2	457	0	149	300	298	0	200	300	0	0	0	0	0	0	0

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11 1	1.0	4.0	3.0	2.4	0.0	9.0	1.3	2.3	0.0	13.6	3.0	2.5	0.0	0.0	0.0
11 2	2.0	0.0	27.1	40.0	39.5	0.0	34.1	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

RAINFALL FACTOR R = 117.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 11

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	2.97	3.71	.98	0.00	.11	.08	.25	.80	0.00	.08	.07	0.00	.94	1.32	.02	.02	.36
2	7.35	7.19	2.16	0.00	.25	.25	.89	1.57	3.30	.33	.20	0.00	3.14	3.90	.07	.07	1.88
3	3.52	2.31	.87	0.00	.08	.08	.26	0.00	1.28	.13	.10	0.00	1.23	1.70	.03	.03	1.58
4	2.58	2.49	.95	0.00	.08	.09	.30	.55	.85	.09	.06	0.00	.94	1.11	.02	.02	.60
6	17.89	17.09	6.92	0.00	.65	.60	2.28	4.35	8.12	.71	.46	0.00	6.61	8.37	.15	.23	4.00
7	2.93	0.00	0.00	0.00	0.00	.08	0.00	.54	1.34	.08	0.00	0.00	1.31	1.61	.03	0.00	.99
8	4.10	4.36	1.59	0.00	.14	.14	.48	.97	1.58	.14	.10	0.00	1.51	1.78	.03	.04	.98
10	40.23	35.40	14.05	0.00	1.17	1.06	3.98	9.56	12.95	1.42	.79	0.00	12.55	13.14	.27	.44	6.01
11	0.00	1.58	0.00	0.00	0.00	.05	0.00	.35	.88	.06	0.00	0.00	0.00	0.00	.02	0.00	.56
12	3.49	3.70	1.49	0.00	.13	.12	.31	.83	2.23	.13	.07	0.00	1.13	1.36	.02	.02	.57
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.09	0.00	0.00	1.83	.03	.03	.35
18	148.14	168.68	63.72	0.00	5.57	2.92	18.74	37.48	70.28	5.34	3.60	0.00	47.98	60.72	1.02	.96	20.23
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.93	0.00	0.00	0.00	0.00	92.32	0.00	0.00	84.63
20	0.00	0.00	0.00	0.00	9.02	0.00	0.00	0.00	0.00	9.02	5.71	0.00	69.75	85.39	1.61	2.44	21.59
22	0.00	0.00	0.00	0.00	0.00	0.00	30.82	0.00	89.36	9.24	5.79	0.00	82.59	98.61	1.66	2.19	11.42
23	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	1.64	0.00	1.64
	8.10	6.57	4.14	0.00	.31	.39	1.13	1.90	16.83	.33	.57	0.00	7.14	7.69	.23	.47	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION= 11

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	0.000	.000	.001	.000	.000	.002
2	.011	.008	.008	0.000	.001	.001	.002	.001	.001	.001	.001	0.000	.012	.019	.001	.000	.086
3	.003	.001	.000	0.000	.000	.000	.000	0.000	.000	.000	.000	0.000	.000	.001	.000	.000	.005
4	.005	.005	.002	0.000	.000	.000	.000	.001	.000	.000	.000	0.000	.002	.004	.000	.000	.021
6	.033	.032	.013	0.000	.002	.001	.006	.003	.003	.001	.002	0.000	.014	.021	.001	.000	.132
7	.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.001	.002	.000	0.000	.003
8	.052	.043	.014	0.000	.003	.001	.004	.006	.001	.002	.001	0.000	.022	.025	.001	.000	.177
10	.029	.013	.011	0.000	.001	.001	.003	.005	.001	.001	.001	0.000	.027	.014	.002	.000	.112
11	0.000	.001	0.000	0.000	0.000	.000	0.000	.000	.000	.000	0.000	0.000	0.000	0.000	.000	0.000	.001
12	.003	.001	.001	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.002	.002	.000	.000	.010
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.000	.000	.000
18	.050	.005	.024	0.000	.002	.001	.001	.003	.001	.001	.003	0.000	.050	.047	.005	.000	.193
19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.004	0.000	0.000	0.000	0.000	.004	0.000	0.000	.008
20	0.000	0.000	0.000	0.000	.001	0.000	0.000	0.000	0.000	.001	.006	0.000	.072	.085	.007	.001	.174
22	0.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	.033	.000	.001	0.000	.008	.023	.009	.001	.077
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
	.207	.109	.074	0.000	.010	.005	.017	.020	.044	.009	.016	0.000	.211	.249	.027	.002	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 11

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.000	.000	.001	0.000	.000	.000	.000	.001	0.000	.001	.001	0.000	.000	.001	.008	.000	.015
2	.011	.003	.000	0.000	.012	.000	.005	.002	.001	.010	.009	0.000	.011	.013	.032	.000	.125
3	.002	.001	.000	0.000	.000	.001	.000	0.000	.000	.000	.000	0.000	.000	.002	.001	.000	.008
4	.006	.006	.006	0.000	.006	.002	.002	.003	.001	.004	.010	0.000	.006	.010	.031	.001	.095
6	.005	.005	.005	0.000	.007	.004	.007	.002	.001	.005	.010	0.000	.006	.007	.025	.001	.090
7	.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.002	.003	.003	0.000	.008
8	.035	.027	.024	0.000	.059	.015	.024	.017	.002	.040	.032	0.000	.040	.038	.131	.005	.489
10	.002	.001	.002	0.000	.003	.004	.002	.002	.000	.003	.005	0.000	.006	.003	.018	.001	.050
11	0.000	.001	0.000	0.000	0.000	.000	0.000	.001	.000	.000	0.000	0.000	0.000	0.000	.001	0.000	.004
12	.002	.001	.001	0.000	.001	.002	.001	.001	.000	.006	.002	0.000	.004	.005	.021	.000	.047
16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.001	.000	.002
18	.001	.000	.001	0.000	.001	.001	.000	.000	.000	.001	.002	0.000	.003	.002	.013	.000	.026
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
20	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	.000	.003	0.000	.003	.003	.012	.001	.022
22	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.001	.000	.001	0.000	.000	.001	.015	.001	.018
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
	.064	.045	.048	0.000	.089	.036	.042	.029	.007	.070	.075	0.000	.080	.088	.312	.012	

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)

(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	5605	6556	5673	0	6884	2731	90	115	1298	1336	2099	0	956	1575	4515	1087
2	10	802	491	934	0	1486	500	236	135	471	559	904	0	602	1514	3502	110
3	1	185	0	0	0	304	0	0	0	1141	119	326	0	152	50	127	0
4	10	905	694	639	0	2548	523	645	571	275	690	1096	0	376	653	4689	151
6	10	411	41	266	0	1373	477	106	69	103	444	1288	0	242	610	5138	317
7	1	728	0	218	0	402	176	444	0	481	118	0	0	101	1079	656	0
8	100	159	64	201	0	503	185	113	119	55	245	337	0	98	252	1440	30
10	10	136	35	204	0	481	209	148	34	76	273	881	0	84	316	5708	231
11	1	151	0	23	0	0	0	0	0	0	60	0	0	0	200	840	0
12	10	457	81	605	0	1083	454	255	106	112	657	760	0	209	917	5667	122
15	1	0	0	0	0	0	0	0	0	0	119	217	0	152	450	196	0
16	1	65	0	0	0	308	0	504	0	28	130	1640	0	403	541	4258	412
18	10	2	0	0	0	90	38	60	4	0	57	429	0	20	18	5416	80
19	1	16	0	0	0	0	0	0	0	0	151	136	0	0	0	7494	0
20	1	0	0	0	0	0	135	0	45	0	0	721	0	0	59	1350	1028
22	10	0	3	0	0	7	0	0	0	0	0	66	0	66	88	2070	33
23	1	0	0	0	0	0	0	0	0	27	137	0	0	0	0	4162	107
24	1	0	68	32	0	34	0	60	0	0	0	188	0	47	784	1232	316
25	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1029	115	0
27	1	0	0	0	0	0	10	0	0	0	333	90	0	51	150	289	64
28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	171	170	0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	66	67	66	0	65	66	64	52	50	55	84	0	59	57	90	52
LCC=	2	76	77	78	0	75	74	81	73	63	62	83	0	62	61	86	53
LCC=	3	99	0	0	0	67	0	0	0	50	50	100	0	56	51	80	0
LCC=	4	70	68	70	0	68	77	67	77	60	51	78	0	60	59	92	53
LCC=	6	76	82	78	0	68	85	75	72	61	61	85	0	61	62	88	52
LCC=	7	81	0	75	0	73	81	63	0	93	50	0	0	56	62	81	0
LCC=	8	78	73	78	0	75	82	72	79	84	59	78	0	60	60	87	53
LCC=	10	73	82	67	0	67	83	68	80	92	64	85	0	59	60	90	53
LCC=	11	100	0	100	0	0	0	0	0	0	50	0	0	0	51	84	0
LCC=	12	79	78	81	0	75	82	76	80	63	61	79	0	57	59	87	53
LCC=	15	0	0	0	0	0	0	0	0	0	50	100	0	56	51	97	0
LCC=	16	67	0	0	0	67	0	50	0	50	50	95	0	57	63	96	52
LCC=	18	83	0	0	0	51	84	56	50	0	59	94	0	57	55	90	52
LCC=	19	100	0	0	0	0	0	0	0	0	90	63	0	0	0	83	0
LCC=	20	0	0	0	0	0	62	0	62	0	0	73	0	0	55	83	52
LCC=	22	0	50	0	0	50	0	0	0	0	0	95	0	62	62	85	56
LCC=	23	0	0	0	0	0	0	0	0	50	87	0	0	0	0	87	50
LCC=	24	0	67	67	0	50	0	50	0	0	0	84	0	63	66	92	52
LCC=	25	0	0	0	0	0	0	0	0	0	0	0	0	0	63	74	0
LCC=	27	0	0	0	0	0	50	0	0	0	50	100	0	56	51	98	58
LCC=	28	0	0	0	0	0	0	0	0	0	0	0	0	0	63	83	0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS(LCC)(K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.32	.24	.30	.19	.00	.26	.25	.17	.00	.24	.36	.17	.00	.00	.28
2	.24	.00	.25	.21	.24	.00	.23	.21	.20	.21	.00	.22	.21	.00	

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	.434	.450	.170	0.000	.015	.015	.050	.100
2	.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC)

(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12 1	586	232	193	222	0	288	302	150	0	250	252	150	0	0	100
12 2	180	0	200	240	250	0	200	222	200	233	0	178	233	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS(LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12 1	1.0	5.0	2.0	3.0	0.0	12.0	4.0	4.0	0.0	20.0	2.0	10.9	0.0	0.0	2.0
12 2	5.1	0.0	30.0	14.3	12.0	0.0	40.0	20.7	40.0	22.3	0.0	14.6	22.3	0.0	

RAINFALL FACTOR R= 92.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 12

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.86	1.95	.73	0.00	.06	.06	.21	.34	.81	.05	.05	0.00	.76	.74	.02	.02	.83
2	5.95	6.24	2.39	0.00	.20	.20	.73	1.32	2.84	.17	.15	0.00	2.23	2.20	.05	.05	1.41
3	2.91	0.00	0.00	0.00	.07	0.00	0.00	0.00	.85	.05	.07	0.00	.76	.69	.02	0.00	.71
4	1.94	1.95	.76	0.00	.07	.07	.21	.49	.96	.05	.05	0.00	.77	.75	.02	.02	.38
6	24.19	27.03	9.71	0.00	.75	.93	2.75	5.27	11.17	.67	.62	0.00	8.94	9.08	.19	.19	2.46
7	5.04	0.00	1.83	0.00	.16	.17	.45	0.00	3.33	.11	0.00	0.00	1.60	1.78	.03	0.00	1.84
8	2.50	2.42	.98	0.00	.08	.09	.27	.58	1.55	.07	.06	0.00	.88	.88	.02	.02	.36
10	45.17	52.56	16.22	0.00	1.43	1.77	4.84	11.39	32.76	1.37	1.21	0.00	16.81	17.09	.38	.38	3.00
11	3.82	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	.07	0.00	0.00	0.00	.90	.02	0.00	.64
12	10.25	10.48	4.11	0.00	.34	.37	1.13	2.39	4.70	.27	.24	0.00	3.40	3.52	.08	.08	1.25
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.04	.05	0.00	.58	.53	.02	0.00	.30
16	4.73	0.00	0.00	0.00	.16	0.00	.41	0.00	2.03	.12	.15	0.00	1.85	2.05	.05	.04	.36
18	93.29	0.00	0.00	0.00	1.98	3.26	7.24	12.94	0.00	2.29	2.43	0.00	29.49	28.46	.70	.67	1.14
19	30.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.96	.45	0.00	0.00	0.00	.18	0.00	.27
20	0.00	0.00	0.00	0.00	0.00	.59	0.00	3.91	0.00	0.00	.46	0.00	0.00	6.93	.16	.16	.41
22	0.00	85.20	0.00	0.00	2.84	0.00	0.00	0.00	0.00	0.00	3.60	0.00	46.96	46.96	.97	1.06	4.19
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.53	1.62	0.00	0.00	0.00	0.00	.32	.31	.46
24	0.00	99.28	37.51	0.00	2.47	0.00	8.23	0.00	0.00	0.00	2.77	0.00	41.49	43.47	.91	.86	16.83
25	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	18.13	.32	0.00	16.34
21	0.00	0.00	0.00	0.00	0.00	.50	0.00	0.00	0.00	.50	.66	0.00	7.42	6.76	.19	.19	1.71
28	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	18.13	.36	0.00	9.27
	6.64	4.34	2.60	0.00	.25	.33	.90	1.05	3.73	.25	.41	0.00	3.94	4.29	.21	.19	

FRACTION OF SOIL LOSS BY LAND USE ANIS LAND CAPABILITY CLASS

REGION= 12

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.008	.013	.003	0.000	.000	.000	.000	.000	.001	.000	.000	0.000	.001	.001	.000	.000	.026
2	.036	.023	.017	0.000	.002	.001	.001	.001	.010	.001	.001	0.000	.010	.025	.001	.000	.129
3	.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.001	.000	.000	0.000	.000	.000	0.000	0.000	.001
4	.013	.010	.004	0.000	.001	.000	.001	.002	.002	.000	.000	0.000	.002	.004	.001	.000	.041
6	.075	.008	.019	0.000	.008	.003	.002	.003	.009	.002	.006	0.000	.016	.042	.007	.000	.201
7	.003	0.000	.000	0.000	.000	.000	.000	0.000	.001	.000	0.000	0.000	.000	.001	.000	0.000	.006
8	.030	.012	.015	0.000	.003	.001	.002	.005	.006	.001	.001	0.000	.007	.017	.002	.000	.102
10	.046	.014	.025	0.000	.005	.003	.005	.003	.019	.003	.008	0.000	.011	.041	.016	.001	.199
11	.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	.001
12	.035	.006	.019	0.000	.003	.001	.002	.002	.004	.001	.001	0.000	.005	.024	.003	.000	.108
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	0.000	.000
16	.000	0.000	0.000	0.000	.000	0.000	.000	0.000	.000	.000	.000	0.000	.001	.001	.000	.000	.002
18	.001	0.000	0.000	0.000	.001	.001	.003	.000	0.000	.001	.008	0.000	.004	.004	.028	.000	.053
19	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	.001	0.000	.002
20	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	0.000	.000	0.000	0.000	.000	.000	.000	.001
22	0.000	.002	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	.002	0.000	.023	.031	.015	.000	.073
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	0.000	.001	.000	.002
24	0.000	.005	.001	0.000	.000	0.000	.000	0.000	0.000	0.000	.000	0.000	.001	.026	.001	.000	.035
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.014	.000	0.000	.014
27	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	.000	.001	.000	.000	.001
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.002	.000	0.000	.002
	.248	.093	.102	0.000	.024	.011	.018	.017	.053	.010	.029	0.000	.082	.233	.078	.002	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 12

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.005	.008	.005	0.000	.006	.002	.000	.000	.001	.001	.002	0.000	.001	.001	.004	.001	.038
2	.007	.004	.008	0.000	.013	.004	.002	.001	.004	.005	.008	0.000	.005	.013	.031	.001	.109
3	.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.001	.000	.000	0.000	.000	.000	.000	0.000	.002
4	.008	.006	.006	0.000	.023	.005	.006	.005	.002	.006	.010	0.000	.003	.006	.042	.001	.128
6	.004	.000	.002	0.000	.012	.004	.001	.001	.001	.004	.011	0.000	.002	.005	.046	.003	.097
7	.001	0.000	.000	0.000	.000	.000	.000	0.000	.000	.000	0.000	0.000	.000	.001	.001	0.000	.004
8	.014	.006	.018	0.000	.045	.016	.010	.011	.005	.022	.030	0.000	.009	.022	.128	.003	.338
10	.001	.000	.002	0.000	.004	.002	.001	.000	.001	.002	.008	0.000	.001	.003	.051	.002	.078
11	.000	0.000	.000	0.000	0.000	0.000	0.000	0.900	0.000	.000	0.000	0.000	0.000	.000	.001	0.000	.001
12	.004	.001	.005	0.000	.010	.004	.002	.001	.001	.006	.007	0.000	.002	.008	.050	.001	.102
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	0.000	.001
16	.000	0.000	0.000	0.000	.000	0.000	.000	0.000	.000	.000	.001	0.000	.000	.000	.004	.000	.007
18	.000	0.000	0.000	0.000	.001	.000	.001	.000	0.000	.001	.004	0.000	.000	.000	.048	.001	.055
19	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	.007	0.000	.007
20	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	0.000	.001	0.000	0.000	.000	.001	.001	.003
22	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	.001	0.000	.001	.001	.018	.000	.021
23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	0.000	.004	.000	.004
24	0.000	.000	.000	0.000	.000	0.000	.000	0.000	0.000	0.000	.000	0.000	.000	.001	.001	.000	.002
25	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	.000	0.000	.001
27	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	.000	.001
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	0.000	.000
	.044	.025	.047	0.000	.115	.039	.024	.019	.017	.048	.083	0.000	.025	.064	.437	.015	



AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)		(ACRES X FACTOR X)															
LCC	x	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	1361	953	1376	0	2145	346	368	51	134	449	619	0	636	406	1002	134
2	10	3654	3024	4565	107	6531	986	1575	686	967	3704	1839	0	1395	499	6377	868
3	1	225	407	539	0	1963	162	563	0	3209	288	111	0	0	196	4670	95
4	10	3256	2331	2732	89	4556	1427	1607	521	745	2718	1314	0	1343	412	6404	165
6	100	112	31	174	4	234	160	106	30	13	201	274	0	82	66	1089	33
7	1	848	1912	1319	0	2525	488	1128	1192	573	1511	1764	0	373	48	1510	0
8	100	322	277	499	20	563	280	244	113	79	603	328	0	168	118	1899	48
10	10	300	132	786	0	1345	620	521	183	84	1523	1447	0	300	495	8662	458
11	1	479	0	356	0	0	197	0	0	0	863	282	0	0	0	0	0
12	10	933	771	1004	44	1777	847	1173	206	93	2045	1179	0	542	442	9458	220
15	1	0	0	0	0	0	0	0	0	0	0	141	0	0	0	0	0
16	10	13	0	4	0	25	48	224	0	0	77	415	0	199	215	1311	60
18	10	24	24	57	0	352	344	97	28	20	338	1263	0	213	153	6382	235
19	1	0	0	44	0	183	34	0	0	0	263	106	0	317	208	2653	99
20	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	0
22	10	0	4	27	0	27	33	39	18	0	144	309	0	107	39	2966	97
23	10	0	2	0	0	43	3	0	0	2	0	209	0	21	21	2831	200
24	1	0	0	0	0	28	0	414	0	0	0	285	0	1080	3557	4799	0
27	10	0	19	0	0	37	0	17	0	0	198	71	0	37	54	1077	139
28	1	0	0	178	0	0	197	0	0	0	0	0	0	0	392	0	0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC=	1	71	71	72	0	69	64	72	71	85	51	74	0	63	63	76	51
LCC=	2	78	81	81	67	82	75	75	77	61	53	78	0	62	60	83	56
LCC=	3	80	65	55	0	65	100	50	0	57	50	100	0	0	58	73	50
LCC=	4	81	81	82	77	82	80	81	80	61	52	79	0	61	60	77	53
LCC=	6	80	80	82	87	80	83	84	79	69	57	80	0	62	63	75	52
LCC=	7	69	82	80	0	72	84	81	68	75	50	80	0	58	53	91	0
LCC=	8	84	83	82	94	81	84	83	85	86	53	80	0	61	63	76	52
LCC=	10	72	77	71	0	69	78	74	77	72	69	80	0	60	65	77	51
LCC=	11	100	0	100	0	0	100	0	0	0	50	65	0	0	0	0	0
LCC=	12	85	88	86	99	85	83	87	85	93	53	82	0	60	62	81	53
LCC=	15	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0
LCC=	16	50	0	75	0	53	55	50	0	0	54	96	0	60	64	76	50
LCC=	18	73	70	84	0	66	84	79	66	96	81	92	0	60	62	74	51
LCC=	19	0	0	50	0	100	50	0	0	0	50	83	0	57	63	88	50
LCC=	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	0
LCC=	22	0	78	93	0	98	100	100	60	0	100	95	0	58	58	83	53
LCC=	23	0	75	0	0	100	75	0	0	100	0	98	0	60	63	68	50
LCC=	24	0	0	0	0	50	0	50	0	0	0	94	0	57	65	94	0
LCC=	27	0	100	0	0	88	0	88	0	0	50	95	0	58	57	76	51
LCC=	28	0	0	100	0	0	100	0	0	0	0	0	0	0	58	0	0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		.32	.30	.31	.18	.00	.26	.28	.17	.00	.23	.49	.17	.00	.28
2		.23	.00	.23	.24	.24	.00	.26	.21	.19	.00	.00	.23	.23	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8	
1		.427	.450	.170	.300	.015	.015	.050	.100
2		.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
13 1	586	209	195	256	0	286	200	150	0	250	200	150	0	0	100
13 2	186	0	200	174	250	0	200	209	182	0	0	137	125	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
13 1	1.0	5.0	2.0	3.4	0.0	12.0	2.0	4.0	0.0	20.0	2.0	10.5	0.0	0.0	2.0
13 2	5.1	0.0	30.0	9.4	12.0	0.0	40.0	18.9	29.1	0.0	0.0	8.6	7.0	0.0	

RAINFALL FACTOR R = 88.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION = 13

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.88	1.98	.76	0.00	.06	.06	.22	.44	1.32	.05	.05	0.00	.78	.78	.01	.02	.68
2	6.81	7.45	2.82	4.11	.75	.23	.77	1.57	3.12	.16	.16	0.00	2.54	2.45	.05	.06	2.01
3	2.29	1.96	.63	0.00	.07	.10	.17	0.00	.96	.05	.07	0.00	0.00	.78	.01	.02	.42
4	2.69	2.83	1.08	1.79	.10	.09	.31	.62	1.18	.06	.06	0.00	.95	.93	.02	.02	.77
6	23.87	25.14	9.73	18.22	.84	.87	2.93	5.52	12.05	.60	.56	0.00	8.66	8.80	.16	.18	3.04
7	1.80	2.25	.83	0.00	.07	.08	.25	.42	1.14	.05	.05	0.00	.71	.65	.02	0.00	.59
8	2.53	2.63	.98	1.99	.09	.09	.29	.60	1.51	.06	.06	0.00	.86	.89	.02	.02	.49
10	40.16	45.24	15.76	0.00	1.35	1.53	4.83	10.05	23.50	1.35	1.04	0.00	15.67	16.97	.30	.33	3.50
11	4.56	0.00	1.82	0.00	0.00	.16	0.00	0.00	0.00	.08	.07	0.00	0.00	0.00	0.00	0.00	1.36
12	9.80	10.69	3.95	8.02	.34	.34	1.17	2.29	6.28	.21	.22	0.00	3.24	3.35	.07	.07	1.43
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.05	0.00	0.00	0.00	0.00	0.00	.05
16	3.24	0.00	1.93	0.00	.12	.12	.38	0.00	0.00	.12	.15	0.00	1.82	1.94	.03	.04	.40
18	71.01	71.72	32.51	0.00	2.25	2.87	8.99	15.03	54.64	2.77	2.09	0.00	27.32	28.23	.51	.58	2.78
19	0.00	0.00	2.96	0.00	.52	.26	0.00	0.00	0.00	.26	.29	0.00	3.97	4.39	.09	.09	.71
20	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	.18	0.00	.18
22	0.00	143.72	64.74	0.00	6.02	6.14	20.47	24.57	0.00	6.14	3.89	0.00	47.50	47.50	1.02	1.09	4.22
23	0.00	33.53	0.00	0.00	1.49	1.12	0.00	0.00	24.84	0.00	.97	0.00	11.92	12.52	.20	.25	.46
24	0.00	0.00	0.00	0.00	1.78	0.00	4.27	0.00	0.00	0.00	1.60	0.00	19.46	22.19	.48	0.00	10.28
27	0.00	11.72	0.00	0.00	.34	0.00	1.15	0.00	0.00	.20	.25	0.00	3.02	2.97	.06	.07	.40
28	0.00	0.00	3.17	0.00	0.00	.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.17	0.00	0.00	1.92
	6.73	6.00	3.36	4.33	.32	.49	1.23	2.15	3.26	.34	.54	0.00	4.58	6.73	.17	.18	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION- 13

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.007	.005	.003	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.001	.001	.000	.000	.019
2	.070	.063	.036	.001	.005	.001	.003	.003	.008	.002	.001	0.000	.010	.003	.001	.000	.207
3	.000	.000	.000	0.000	.000	.000	.000	0.000	.001	.000	.000	0.000	0.000	.000	.000	.000	.001
4	.024	.018	.008	.000	.001	.000	.001	.001	.002	.000	.000	0.000	.004	.001	.000	.000	.064
6	.075	.022	.047	.002	.005	.004	.009	.005	.004	.003	.004	0.000	.020	.016	.005	.000	.222
7	.000	.001	.000	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.000	.000	.000	0.000	.003
8	.023	.020	.014	.001	.001	.001	.002	.002	.003	.001	.001	0.000	.004	.003	.001	.000	.077
10	.034	.017	.035	0.000	.005	.003	.007	.005	.006	.006	.004	0.000	.013	.024	.007	.000	.165
11	.001	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	0.000	0.000	.001
12	.026	.023	.011	.001	.002	.001	.004	.001	.002	.001	.001	0.000	.005	.004	.002	.000	.063
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	.000
16	.000	0.000	.000	0.000	.000	.000	.000	0.000	0.000	.000	.000	0.000	.001	.001	.000	.000	.003
18	.005	.005	.005	0.000	.002	.003	.002	.001	.003	.003	.007	0.000	.016	.012	.009	.000	.074
19	0.000	0.000	.000	0.000	.000	.000	0.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	.000	.001
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
22	0.000	.002	.005	0.000	.000	.001	.002	.001	0.000	.002	.003	0.000	.014	.005	.008	.000	.045
23	0.000	.000	0.000	0.000	.000	.000	0.000	0.000	.000	0.000	.001	0.000	.001	.001	.002	.000	.004
24	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	0.000	0.000	.000	0.000	.006	.022	.001	0.000	.029
27	0.000	.001	0.000	0.000	.000	0.000	.000	0.000	0.000	.000	.000	0.000	.000	.000	.000	.000	.002
28	0.000	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
	.264	.178	.165	.006	.023	.013	.032	.020	.031	.019	.023	0.000	.096	.095	.036	.002	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 13

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.006	.004	.006	0.000	.010	.002	.002	.000	.001	.002	.003	0.000	.003	.002	.005	.001	.045
2	.017	.014	.021	.000	.030	.004	.007	.003	.004	.017	.008	0.000	.006	.002	.029	.004	.166
3	.000	.000	.000	0.000	.001	.000	.000	0.000	.001	.000	.000	0.000	0.000	.000	.002	.000	.006
4	.015	.011	.012	.000	.021	.006	.007	.002	.003	.012	.006	0.000	.006	.002	.029	.001	.134
6	.005	.001	.008	.000	.011	.007	.005	.001	.001	.009	.012	0.000	.004	.003	.049	.001	.118
7	.000	.001	.001	0.000	.001	.000	.001	.001	.000	.001	.001	0.000	.000	.000	.001	0.000	.007
8	.015	.013	.023	.001	.025	.013	.011	.005	.004	.027	.015	0.000	.008	.005	.066	.002	.252
10	.001	.001	.004	0.000	.006	.003	.002	.001	.000	.007	.007	0.000	.001	.002	.039	.002	.076
11	.000	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	0.000	0.000	.001
12	.004	.003	.005	.000	.008	.004	.005	.001	.000	.009	.005	0.000	.002	.002	.043	.000	.094
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	.000
16	.000	0.000	.000	0.000	.000	.000	.001	0.000	0.000	.000	.002	0.000	.001	.001	.006	.000	.012
18	.000	.000	.000	0.000	.002	.002	.000	.000	.000	.002	.006	0.000	.001	.001	.029	.001	.043
19	0.000	0.000	.000	0.000	.000	.000	0.000	0.000	0.000	.000	.000	0.000	.000	.000	.001	.000	.002
20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000
22	0.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.001	.001	0.000	.000	.000	.013	.000	.017
23	0.000	.000	0.000	0.000	.000	.000	0.000	0.000	.000	0.000	.001	0.000	.000	.000	.013	.001	.015
24	0.000	0.000	0.000	0.000	.000	0.000	.000	0.000	0.000	0.000	.000	0.000	.000	.002	.002	0.000	.005
27	0.000	.000	0.000	0.000	.000	0.000	.000	0.000	0.000	.001	.000	0.000	.000	.000	.005	.001	.007
28	0.000	0.000	.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000
	.063	.048	.079	.002	.114	.041	.042	.015	.015	.088	.068	0.000	.034	.023	.352	.015	

REGION=14

SOUTHEASTERN LAKE ONTARIO

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	10	1048	283	1067	24	747	508	335	199	79	412	614	181	175	1312	988	9
2	100	712	425	914	25	1126	538	233	2.38	109	223	450	205	259	686	1314	26
3	10	147	385	65	0	308	874	28	171	47	50	337	604	372	427	3906	12
4	100	403	295	464	16	459	300	227	167	212	219	321	254	131	402	1618	15
6	100	156	40	209	4	433	228	229	58	32	202	333	224	96	187	1443	4
7	10	157	192	124	0	181	366	64	163	47	153	385	483	110	512	3275	141
8	100	326	388	449	5	590	410	193	232	63	312	508	502	155	733	3209	88
10	100	134	44	199	0	216	242	113	66	72	144	305	248	75	180	1566	6
11	10	37	96	87	0	38	157	36	117	0	180	202	544	26	346	3491	414
12	10	867	804	1098	0	01412	873	455	554	47	1184	2322	1329	441	2030	8499	1000
14	1	0	0	0	0	0	0	0	0	0	0	0	604	0	0	4700	0
15	1	0	0	0	0	0	0	0	0	234	0	352	604	0	0	5515	0
16	10	24	0	34	0	103	54	0	7	23	27	230	423	244	151	2594	87
18	10	128	26	249	24	682	520	361	229	208	587	1380	906	257	178	5922	24
19	100	1	1	4	0	11	20	10	16	0	6	199	284	2	9	1815	9
20	1	0	29	0	0	0	176	80	0	0	0	0	0	0	0	445	414
22	10	34	13	46	0	78	105	19	73	133	345	883	1148	116	500	7373	48
23	10	44	3	92	0	53	130	0	9	93	244	830	1390	75	560	8771	204
24	10	29	132	70	0	35	12	32	3	0	73	150	302	12	375	1771	201
27	10	0	0	60	0	47	40	236	0	1	74	634	544	39	376	3487	232
28	1	0	0	0	0	0	0	0	133	0	0	152	604	0	3552	4070	281

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
LCC= 1	66	62	63	57	69	61	67	68	52	55	89	74	63	61	74	68
LCC= 2	77	76	76	77	79	77	77	78	67	59	84	76	65	62	76	57
LCC= 3	92	93	87	0	87	92	78	92	73	50	85	89	66	61	99	58
LCC= 4	79	77	80	69	81	79	81	84	78	56	86	82	65	62	82	55
LCC= 6	83	84	81	88	83	86	89	82	84	61	83	76	64	61	76	77
LCC= 7	87	87	80	0	86	87	84	87	79	61	85	83	65	58	83	52
LCC= 8	81	80	79	89	84	80	79	84	77	63	86	83	63	62	83	55
LCC= 10	81	80	80	0	83	80	80	86	73	60	83	79	63	60	79	71
LCC= 11	77	88	89	0	64	63	80	91	0	50	86	83	61	60	83	56
LCC= 12	83	89	65	0	86	87	79	86	88	57	86	78	65	62	78	57
LCC= 14	0	0	0	0	0	0	0	0	0	0	0	86	0	0	86	0
LCC= 15	0	0	0	0	0	0	0	0	79	0	100	88	0	0	88	0
LCC= 16	91	0	78	0	100	71	0	100	89	50	95	78	65	61	78	57
LCC= 18	91	90	83	100	86	86	83	88	88	75	94	77	68	59	77	79
LCC= 19	86	86	84	0	84	83	85	81	0	50	92	83	60	56	83	52
LCC= 20	0	100	0	0	0	100	50	0	0	0	0	61	0	0	61	55
LCC= 22	98	83	93	0	92	81	50	100	93	89	95	75	60	62	75	75
LCC= 23	92	100	86	0	92	92	0	100	100	93	92	76	60	57	76	53
LCC= 24	76	96	100	0	96	97	50	100	0	76	94	72	63	57	72	51
LCC= 27	0	0	74	0	74	74	74	0	50	100	92	81	60	64	81	56
LCC= 28	0	0	0	0	0	0	0	100	0	0	100	90	0	59	90	50

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	.32	.32	.32	.18	.00	.29	.30	.17	.00	.30	.43	.17	.00	.21	.28
2	.25	.00	.29	.26	.23	.00	.29	.23	.20	.00	.00	.24	.23	.00	

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8
1	.425	.450	.170	.300	.015	.015	.050	.100
2	.250	.015	.010	.003	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
14 1	586	203	201	275	0	264	214	153	0	243	212	152	0	240	100
14 2	168	0	200	116	164	0	200	132	160	0	0	91	118	0	

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	5	7	8	9	10	11	12	13	14	15
14 1	1.0	5.0	2.0	3.7	0.0	11.9	2.0	4.1	0.0	20.0	2.9	10.5	0.0	21.4	2.0
14 2	6.1	0.0	29.9	5.8	8.6	0.0	40.0	12.9	16.2	0.0	0.0	19.8	9.7	0.0	

RAINFALL FACTOR R= 84.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 14

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.66	1.65	.63	1.01	.06	.05	.20	.40	.77	.05	.05	.01	.75	.72	.01	.02	.54
2	6.72	7.02	2.65	4.74	.24	.24	.79	1.60	3.44	.18	.17	.05	2.67	2.54	.05	.06	1.91
3	2.61	2.79	.99	0.00	.09	.09	.26	.61	1.22	.05	.06	.02	.88	.81	.02	.02	.33
4	2.80	2.89	1.13	1.73	.10	.10	.34	.70	1.63	.07	.07	.02	1.08	1.03	.02	.02	.69
6	24.89	26.65	9.71	18.62	.88	.91	3.14	5.78	14.81	.65	.59	.16	9.03	8.60	.16	.27	3.17
7	2.36	2.49	.87	0.00	.08	.08	.27	.55	1.26	.06	.05	.02	.83	.74	.02	.02	.27
8	2.59	2.70	1.01	2.00	.09	.09	.30	.63	1.45	.07	.06	.02	.95	.93	.02	.02	.45
10	55.21	57.69	21.80	0.00	2.00	1.92	6.41	13.78	29.25	1.44	1.33	.38	20.19	19.23	.38	.57	6.98
11	3.99	4.82	1.84	0.00	.12	.12	.49	1.11	0.00	.09	.10	.03	1.49	1.46	.03	.03	.29
12	9.16	10.39	3.75	0.00	.33	.34	1.02	2.23	5.71	.22	.22	.06	3.37	3.22	.06	.07	1.42
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.32	0.00	0.00	.32	0.00	.32
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.93	0.00	.05	.01	0.00	0.00	.01	0.00	.05
16	7.24	0.00	2.48	0.00	.28	.20	0.00	1.87	4.16	.14	.18	.04	2.43	2.28	.04	.05	.38
18	105.47	110.37	38.45	81.76	3.52	3.52	11.31	23.98	59.96	3.07	2.56	.63	37.06	32.16	.63	1.08	6.77
19	5.54	5.86	2.16	0.00	.19	.19	.64	1.23	0.00	.11	.14	.04	1.82	1.70	.04	.04	.07
20	0.00	12.24	0.00	0.00	0.00	.41	.68	0.00	0.00	0.00	0.00	.05	0.00	0.00	.05	.07	.47
22	181.69	162.83	68.92	0.00	6.02	5.30	10.90	43.59	101.36	5.82	4.14	.98	52.31	54.06	.98	1.63	7.01
23	17.53	20.16	6.55	0.00	.62	.62	0.00	4.48	11.20	.63	.41	.10	5.38	5.11	.10	.12	.60
24	19.89	26.59	10.46	0.00	.89	.90	1.54	6.15	0.00	.70	.58	.13	7.76	7.02	.13	.16	2.57
21	0.00	0.00	9.71	0.00	.86	.86	2.86	0.00	9.65	1.16	.71	.19	9.26	9.88	.19	.22	1.17
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	0.00	0.00	.27	.07	0.00	3.24	.07	.07	1.40
	10.70	7.53	4.63	7.83	.48	.56	2.00	3.18	11.01	.60	.56	.15	5.83	4.52	.15	.10	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION= 14

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.005
2	.058	.036	.030	.001	.003	.002	.002	.005	.005	.000	.001	.000	.000	.021	.001	.000	.174
3	.000	.001	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003
4	.014	.010	.006	.000	.001	.000	.001	.001	.004	.000	.000	.000	.002	.005	.000	.000	.046
6	.048	.013	.025	.001	.005	.003	.009	.004	.006	.002	.002	.000	.011	.020	.003	.000	.150
7	.000	.001	.000	0.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002
8	.010	.013	.006	.000	.001	.000	.001	.002	.001	.000	.000	.000	.002	.008	.001	.000	.045
10	.090	.031	.053	0.000	.005	.006	.009	.011	.026	.003	.005	.001	.019	.042	.007	.000	.308
11	.000	.001	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.001	.000	.000	.002
12	.010	.010	.005	0.000	.001	.000	.001	.002	.000	.000	.001	.000	.002	.008	.001	.000	.040
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	0.000	.000
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000	0.000	.000	0.000	.000
16	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.002
18	.016	.004	.012	.002	.003	.002	.005	.007	.015	.002	.004	.001	.012	.007	.005	.000	.097
19	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.001	.000	.002
20	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	.000
22	.008	.003	.004	0.000	.001	.001	.000	.004	.016	.002	.004	.001	.007	.033	.009	.000	.094
23	.001	.000	.001	0.000	.000	.000	0.000	.000	.001	.000	.000	.000	.000	.003	.001	.000	.009
24	.001	.004	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	.000	.000	.003	.000	.000	.010
27	0.000	0.000	.001	0.000	.000	.000	.001	0.000	.000	.000	.001	.000	.000	.005	.001	.000	.008
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.000	0.000	.001	.000	.000	.002
	.260	.128	.144	.005	.019	.014	.028	.036	.075	.010	.020	.005	.064	.161	.030	.000	

FRACTION OF LAND AREA Y LAND USE AND LAND CAPABILITY CLASS

REGION= 14

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	11	14	15	16	
1	.003	.001	.003	.000	.002	.001	.001	.000	.000	.001	.001	.000	.000	.003	.002	.000	.019
2	.017	.010	.022	.001	.077	.013	.006	.006	.003	.005	.011	.005	.006	.017	.032	.001	.182
3	.000	.001	.000	0.000	.001	.002	.000	.000	.000	.000	.001	.001	.001	.001	.009	.000	.019
4	.010	.007	.011	.000	.011	.007	.006	.004	.005	.005	.008	.006	.003	.010	.039	.000	.134
6	.004	.001	.005	.000	.011	.006	.006	.001	.001	.005	.000	.005	.002	.005	.035	.000	.094
7	.000	.000	.000	0.000	.000	.001	.000	.000	.000	.000	.001	.001	.000	.001	.008	.000	.015
8	.008	.009	.011	.000	.014	.010	.005	.006	.002	.008	.012	.012	.004	.018	.078	.002	.199
10	.003	.001	.005	0.000	.005	.006	.003	.002	.002	.004	.007	.006	.002	.004	.038	.000	.088
11	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.001	.000	.001	.008	.001	.014
12	.002	.002	.003	0.000	.003	.002	.001	.001	.000	.003	.006	.003	.001	.005	.021	.002	.056
14	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.001	0.000	.001
15	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	.000	.000	0.000	0.000	.001	0.000	.002
16	.000	0.000	.000	0.000	.000	.000	0.000	.000	.000	.000	.001	.001	.001	.000	.006	.000	.010
18	.000	.000	.001	.000	.002	.000	.000	.001	.000	.001	.003	.002	.001	.000	.014	.000	.028
19	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.005	.007	.000	.000	.044	.000	.058
20	0.000	.000	0.000	0.000	0.000	.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	.000	.000
22	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.001	.002	.003	.000	.001	.016	.000	.027
23	.000	.000	.000	0.000	.000	.000	0.000	.000	.000	.001	.002	.003	.000	.001	.021	.000	.030
24	.000	.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.000	.001	.000	.001	.004	.000	.008
27	0.000	0.000	.000	0.000	.000	.000	.001	0.000	.000	.000	.002	.001	.000	.001	.008	.001	.014
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	.000	.000	0.000	.001	.001	.000	.002
	.048	.034	.062	.001	.078	.051	.028	.023	.014	.035	.071	.061	.022	.071	.392	.010	

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	1	686	951	117	0	2705	989	35	421	29	206	1641	0	587	1190	2091	73
2	10	1144	35	906	0	5290	1431	237	389	18	465	2331	0	427	367	4927	352
3	1	0	0	0	0	145	650	916	89	0	0	780	0	17	524	306	175
4	10	192	9	268	0	439	230	39	98	3	71	595	0	220	693	8087	1256
6	10	490	6	265	0	1582	598	91	168	2	195	1921	0	264	738	6699	376
7	10	94	1	133	0	376	360	96	101	0	79	591	0	63	407	4373	1173
8	100	64	1	95	0	383	136	59	49	0	55	174	0	48	79	1117	161
10	10	226	4	206	0	576	177	101	122	0	70	1082	0	105	246	4285	131
11	10	25	0	60	0	46	26	26	5	0	5	89	0	66	69	9987	8330
12	10	162	1	359	0	1032	580	62	170	1	374	1352	0	207	363	5536	650
16	10	0	0	40	0	40	0	2	0	0	0	424	0	82	35	1693	259
18	1	24	12	19	0	165	244	482	267	5	513	495	0	273	354	8137	0
19	100	0	0	3	0	15	11	0	11	0	0	77	0	3	11	1159	222
20	1	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
22	10	2	0	0	0	12	7	5	20	0	0	180	0	53	119	3425	1871
23	100	7	0	6	0	11	29	0	0	0	31	103	0	14	61	1073	657
24	10	15	7	0	0	30	21	49	0	0	3	311	0	47	410	1456	1523
27	10	0	0	91	0	70	60	354	0	1	111	912	0	65	384	700	505
28	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1278	976	1811

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
LCC=	1	72	72	72	0	69	72	72	72	50	50	84	0	68	63	76	50
LCC=	2	73	81	72	0	72	73	72	76	60	63	78	0	65	56	73	51
LCC=	3	0	0	0	0	82	85	75	82	0	0	84	0	59	61	69	58
LCC=	4	80	63	78	0	81	80	69	83	77	50	84	0	67	56	72	50
LCC=	6	79	85	85	0	78	77	74	75	73	59	79	0	67	55	72	50
LCC=	7	88	90	88	0	89	87	85	89	0	72	85	0	67	57	80	50
LCC=	8	86	82	86	0	86	86	86	86	78	65	84	0	65	55	73	50
LCC=	10	82	90	83	0	80	82	80	82	0	79	81	0	66	56	76	51
LCC=	11	50	0	90	0	82	87	87	83	0	50	89	0	65	62	80	50
LCC=	12	92	69	94	0	94	95	94	93	50	50	84	0	65	55	72	53
LCC=	16	0	0	67	0	94	0	75	0	0	0	98	0	60	64	74	51
LCC=	18	90	90	90	0	90	99	53	90	50	100	97	0	63	54	70	0
LCC=	19	86	86	83	0	84	83	86	83	0	0	93	0	68	55	70	50
LCC=	20	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0
LCC=	22	100	0	0	0	64	100	56	56	0	0	99	0	71	57	83	50
LCC=	23	92	0	92	0	86	86	0	71	0	100	94	0	66	55	69	50
LCC=	24	96	88	0	0	100	100	50	0	0	50	100	0	70	54	71	50
LCC=	27	0	0	74	0	74	74	74	0	50	100	93	0	61	52	75	54
LCC=	29	0	0	0	0	0	0	0	0	0	0	0	0	0	52	84	50

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS(LCC) (K)

LCC=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1		.32	.31	.26	.24	.00	.27	.27	.17	.00	.33	.28	.17	.00	.00
2		.21	.00	.24	.21	.23	.00	.24	.24	.27	.00	.00	.24	.24	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	9	
1		.447	.450	.170	0.000	.015	.015	.050	.100
2		.250	.015	.010	0.000	.200	.200	.003	.005

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
15 1	586	242	275	289	0	191	213	232	0	182	294	179	0	0	0
15 2	211	0	200	179	125	0	152	173	186	0	0	98	141	0	0

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
15 1	1.0	5.0	3.6	3.8	0.0	10.5	1.1	4.4	0.0	19.0	2.3	10.7	0.0	0.0	0.0
15 2	8.0	0.0	27.7	10.0	7.0	0.0	35.2	10.4	6.9	0.0	0.0	20.8	15.0	0.0	0.0

RAINFALL FACTOR R = 96.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 15

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	2.18	2.19	.83	0.00	.07	.07	.24	.49	.84	.05	.06	0.00	.92	.85	.02	.02	.50
2	8.10	9.04	3.04	0.00	.27	.77	.89	1.88	3.72	.23	.19	0.00	3.22	2.78	.05	.06	1.00
3	0.00	0.00	0.00	0.00	.16	.17	.50	1.10	0.00	0.00	.11	0.00	1.58	1.63	.03	.04	.14
4	4.77	3.78	1.77	0.00	.16	.16	.46	1.11	7.57	.10	.11	0.00	1.79	1.49	.03	.03	.28
6	18.65	20.19	7.63	0.00	.62	.61	1.95	3.96	9.63	.47	.42	0.00	7.07	5.80	.11	.13	1.59
7	1.74	1.79	.66	0.00	.06	.06	.19	.39	0.00	.05	.04	0.00	.59	.50	.01	.01	.09
8	4.40	4.22	1.67	0.00	.15	.15	.49	.98	2.23	.11	.10	0.00	1.49	1.26	.03	.03	.34
10	58.80	64.93	22.62	0.00	1.92	1.97	6.41	13.15	0.00	1.90	1.30	0.00	21.16	17.96	.37	.41	4.33
11	1.87	0.00	1.28	0.00	.10	.11	.36	.70	0.00	.06	.07	0.00	1.09	1.04	.02	.02	.04
12	13.62	10.27	5.29	0.00	.47	.47	1.56	3.08	4.14	.25	.28	0.00	4.30	3.64	.07	.09	.82
16	0.00	0.00	3.31	0.00	.41	0.00	1.09	0.00	0.00	0.00	.28	0.00	3.49	3.72	.06	.07	.32
18	91.51	92.07	34.78	0.00	3.07	3.38	6.02	20.46	28.42	3.41	2.21	0.00	28.64	24.55	.48	0.00	3.11
19	14.21	14.30	5.21	0.00	.47	.46	1.59	3.07	0.00	0.00	.34	0.00	5.02	4.06	.08	.09	.17
20	0.00	0.00	0.00	0.00	0.00	0.00	.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.51
22	131.08	0.00	0.00	0.00	2.81	4.40	8.21	16.41	0.00	0.00	2.90	0.00	41.62	33.41	.73	.73	1.98
21	18.11	0.00	6.88	0.00	.57	.57	0.00	3.12	0.00	.66	.41	0.00	5.81	4.84	.09	.11	.40
24	12.28	11.33	0.00	0.00	.43	.43	.72	0.00	0.00	.21	.29	0.00	4.00	3.09	.06	.07	.53
27	0.00	0.00	12.48	0.00	1.10	1.10	3.67	0.00	12.40	1.49	.92	0.00	12.11	10.32	.22	.27	.86
28	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	7.29	.18	.18	2.41
	12.76	6.99	4.58	0.00	.36	.38	1.77	3.09	4.48	.39	.46	0.00	5.50	4.62	.11	.11	



FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION 15

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.001	.002	.000	0.000	.000	.000	.000	.000	.000	.000	.000	0.000	.000	.001	.000	.000	.005
2	.011	.002	.021	0.000	.011	.003	.002	.006	.001	.001	.003	0.000	.011	.008	.002	.000	.142
3	0.000	0.000	0.000	0.000	.000	.000	.000	.000	0.000	0.000	.000	0.000	.000	.000	.000	.000	.001
4	.007	.000	.004	0.000	.001	.000	.000	.001	.000	.000	.001	0.000	.003	.008	.002	.000	.026
6	.070	.001	.016	0.000	.008	.003	.001	.005	.000	.001	.006	0.000	.014	.033	.006	.000	.164
7	.001	.000	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	0.000	.000	.002	.000	.000	.005
8	.022	.000	.012	0.000	.004	.002	.002	.004	0.000	.000	.001	0.000	.005	.008	.002	.000	.064
10	.102	.002	.036	0.000	.009	.003	.005	.012	0.000	.001	.011	0.000	.017	.034	.012	.000	.244
11	.000	0.000	.001	0.000	.000	.000	.000	.000	0.000	.000	.000	0.000	.001	.001	.002	.001	.005
12	.019	.000	.015	0.000	.004	.002	.001	.004	.000	.001	.003	0.000	.007	.010	.003	.000	.068
16	0.000	0.000	.001	0.000	.000	0.000	.000	0.000	0.000	0.000	.001	0.000	.002	.001	.001	.000	.006
18	.002	.001	.001	0.000	.000	.001	.002	.004	.000	.000	.006	0.000	.006	.007	.003	0.000	.032
19	0.000	0.000	.001	0.000	.001	.000	0.000	.003	0.000	0.000	.002	0.000	.001	.003	.007	.002	.020
20	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000
22	.002	0.000	0.000	0.000	.000	.000	.000	.003	0.000	0.000	.004	0.000	.017	.031	.019	.011	.087
23	.010	0.000	.003	0.000	.000	.001	0.000	0.000	0.000	.002	.003	0.000	.006	.023	.008	.006	.062
24	.001	.001	0.000	0.000	.000	.000	.000	0.000	0.000	.000	.001	0.000	.001	.010	.001	.001	.016
27	0.000	0.000	.009	0.000	.001	.001	.010	0.000	.000	.001	.006	0.000	.006	.003	.008	.001	.046
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.007	.000	.000	.008
	.309	.009	.119	0.000	.038	.016	.025	.042	.001	.007	.049	0.000	.099	.188	.075	.023	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 15

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.000	.001	.000	0.000	.002	.001	.000	.000	.000	.000	.001	0.000	.000	.001	.001	.000	.007
2	.007	.000	.005	0.000	.031	.008	.001	.002	.000	.003	.014	0.000	.003	.002	.029	.002	.107
3	0.000	0.000	0.000	0.000	.000	.000	.001	.000	0.000	0.000	.000	0.000	.000	.000	.003	.000	.004
4	.001	.000	.002	0.000	.003	.001	.000	.001	.000	.000	.003	0.000	.001	.004	.047	.007	.071
6	.003	.000	.002	0.000	.009	.004	.001	.001	.000	.001	.011	0.000	.002	.004	.039	.002	.078
7	.001	.000	.001	0.000	.002	.002	.001	.001	0.000	.000	.003	0.000	.000	.002	.026	.007	.046
8	.004	.000	.006	0.000	.022	.008	.003	.001	0.000	.003	.010	0.000	.003	.005	.065	.009	.142
10	.001	.000	.001	0.000	.003	.001	.001	.001	0.000	.000	.006	0.000	.001	.001	.025	.001	.043
11	.000	0.000	.000	0.000	.000	.000	.000	.000	0.000	.000	.001	0.000	.000	.000	.059	.049	.110
12	.001	.000	.002	0.000	.006	.003	.000	.001	.000	.002	.008	0.000	.001	.002	.032	.004	.064
16	0.000	0.000	.000	0.000	.000	0.000	.000	0.000	0.000	0.000	.002	0.000	.000	.000	.010	.002	.015
18	.000	.000	.000	0.000	.000	.000	.000	.000	.000	.000	.002	0.000	.000	.000	.005	0.000	.008
19	0.000	0.000	.000	0.000	.001	.001	0.000	.001	0.000	0.000	.005	0.000	.000	.001	.068	.013	.089
20	0.000	0.000	0.000	0.000	0.000	0.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.000
22	.000	0.000	0.000	0.000	.000	.000	.000	.000	0.000	0.000	.001	0.000	.000	.001	.020	.011	.033
23	.000	0.000	.000	0.000	.001	.002	0.000	0.000	0.000	.002	.006	0.000	.001	.004	.063	.039	.117
24	.000	.000	0.000	0.000	.000	.000	.000	0.000	0.000	.000	.002	0.000	.000	.002	.009	.009	.023
27	0.000	0.000	.001	0.000	.000	.000	.002	0.000	.000	.001	.005	0.000	.000	.000	.028	.003	.040
28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.001	.001	.001	.002
	.018	.001	.020	0.000	.081	.032	.011	.010	.000	.013	.082	0.000	.014	.031	.529	.158	





## **APPENDIX B**

### **NONPOINT CALCULATOR RESULTS FOR CANADIAN PORTION OF BASIN**

NAME OF BASIN= GREAT LAKES (CANADA)

POLLUTANT SOURCES TO CONSIDER

EROSION	YES
URBAN RUNOFF	YES
FEEDLOTS	NO
LANDFILL	NO
IRRIGATION RETURN FLOW	NO
ACID MINE DRAINAGE	NO

CONTROL INFORMATION

NUMBER OF EVENTS	1
NUMBER OF REGIONS	=12.

GLOSSARY

LAND USES

01	ORCHARDS, HORTICULTURE
02	CROPLAND
03	IMPROVED PASTURE
04	UNIMPROVED PASTURE
05	FOREST
06	MARSH AND SWAMP
07	BARREN

LAND CAPABILITY CLASSES

01	NO LIMITATIONS
02	MODERATE LIMITATIONS
03	MODERATELY SEVERE LIMITATIONS
04	SEVERE LIMITATIONS
05	VERY SEVERE LIMITATIONS
06	PERENNIAL CROPS ONLY
07	NOT CAPABLE FOR CROP USE OR PASTURE

REGION = 1

KAMINISTIKWIA. CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)(ACRES X FACTOR "X")

LCC	X	1	2	3	4	5	6	7									
3	101	20	34	871	104	9905	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
7	109	0	0	0	0	9929	79	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7										
LCC=	3	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
LCC=	7	0	0	0	0	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7									
1	.00	.00	.40	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8	
	1	.100	.300	.015	.009	.003	.500	1.000	-0.000
	*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LANG CAPABILITY CLASS(LCC)(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7								
1 1	0	0	600	0	0	0	400	-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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS(LCC)

REGSEQ	1	2	3	4	5	6	7								
1 1	0.0	0.0	4.0	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 -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

RAINFALL FACTOR R = 75.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=1

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	2.46	7.38	.37	.20	.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.08
7	0.00	0.00	0.00	0.00	.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.02
	2.46	7.38	.37	.20	.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=1

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	.024	.720	.154	.010	.350	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.657
7	0.000	0.000	0.000	0.000	.343	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.343
	.024	.120	.154	.010	.693	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=1

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	.001	.002	.040	.005	.456	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.503
7	0.000	0.000	0.000	0.000	.493	.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.497
	.001	.002	.040	.005	.949	.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=2

NIPIGON. CANADA

AREAS BY LAND USE AND LAN) CAPABILITY CLASS(LCC)(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7									
7	2000	0	0	4	28	141	18	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7									
7	0	0	100	100	100	0	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=		1	2	3	4	5	6	7									
1		.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00
*		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=		1	2	3	4	5	6	7	8
1	0.000	0.000	.015	.009	.003	.500	0.000	-0.000	
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC)(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7								
2 1	0	0	0	0	0	0	400	-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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7								
2 1	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 -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

RAINFALL FACTOR R = 60.



SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=2

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
7	0.00	0.00	.27	.14	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.02
	0.00	0.00	.27	.14	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=2

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
7	0.000	0.000	.002	.001	.997	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	0.000	0.000	.002	.001	.997	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FRACTION OF (LANE) AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=2

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
7	0.000	0.000	.000	.000	.997	.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	0.000	0.000	.000	.000	.997	.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

REGION=3

MICHIPICOTEN, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC)(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7									
7	469	0	0	17	89	978	4	59	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7									
7		0	0	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=		1	2	3	4	5	6	7									
1		.00	.00	.00	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00
*		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=		1	2	3	4	5	6	7	8
1		0.000	0.000	.015	.008	.003	.500	1.000	-0.000
*		-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES TN FEET)

REGSEQ	1	2	3	4	5	6	7										
3 1	0	0	0	0	0	0	400	-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

SLOPE (PERCENT) BY LAND CAPABILITY TTY CI Acct (LCC)

REGSEQ	1	2	3	4	5	6	7										
3 1	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	-0.0	-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

RAINFALL FACTOR R = 65.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION = 3

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
7	0.00	0.00	.29	.15	.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.02
	0.00	0.00	.29	.15	.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION = 3

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
7	0.000	0.000	.008	.002	.989	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	0.000	0.000	.008	.002	.989	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=3

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
7	0.000	0.000	.002	.001	.991	.000	.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	0.000	0.000	.002	.001	.991	.000	.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

REGION=4

ST MARYS, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)

(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7									
3	77	0	11	1062	460	9957	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
7	206	0	0	0	0	9959	31	11	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7									
3	0	100	100	100	100	0	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
7	0	0	0	0	0	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY UNDER BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7										
1	.00	.00	.33	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	0.000	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC)

(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7								
4 1	0	0	400	0	0	0	400	-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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7								
4 1	0.0	0.0	4.0	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 -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

RAINFALL FACTOR R = 70.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=4

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	0.00	4.83	.24	.13	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.07
7	0.00	0.00	0.00	0.00	.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.06
	0.00	4.83	.24	.13	.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=4

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	0.000	.021	.102	.024	.191	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.388
7	0.000	0.000	0.000	0.000	.662	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.662
	0.000	.021	.102	.024	.853	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=4

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	0.000	.000	.028	.012	.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.300
7	0.000	0.000	0.000	0.000	.697	.002	.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.700
	0.000	.000	.028	.012	.957	.002	.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=5

FRENCH, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7									
3	402	0	18	699	332	9980	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
7	432	0	0	0	0	9990	168	95	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7										
LCC= 3	0	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
LCC= 7	0	0	0	0	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY UNDER BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7										
1	.00	.00	.25	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	0.000	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7										
5 1	0	0	400	0	0	0	400	-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

SLOPE (PERCENT) BY LANG CAPABILITY CLASS(LCC)

REGSEQ	1	2	3	4	5	6	7										
5 1	0.0	0.0	4.0	0.0	0.0	0.0	8.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-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

RAINFALL FACTOR R = 60.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=5

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	0.00	3.14	.16	.08	.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.05
7	0.00	0.00	0.00	0.00	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.05
	0.00	3.14	.16	.08	.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=5

LCC	LAND USE																
	1	2	3	4	5	6	7	9	9	10	11	12	13	14	15	16	
3	0.000	.052	.101	.026	.289	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.469
7	0.000	0.000	0.000	0.000	.331	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.531
	0.000	.052	.101	.026	.821	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=5

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	0.000	.001	.032	.015	.453	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.500
7	0.000	0.000	0.000	0.000	.487	.008	.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.500
	0.000	.001	.032	.015	.940	.000	.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=6

GEORGIAN, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC)

(ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7									
3	108	151	3746	9957	3069	9739	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
6	282	0	0	0	0	9986	220	9	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC

(DIVIDE BY 100)

LU=		1	2	3	4	5	6	7									
LCC=	3	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
LCC=	6	0	0	0	0	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY UNDER BY LAND CAPABILITY CLASS (LCC) (K)

LCC=		1	2	3	4	5	6	7									
	1	.00	.00	.28	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=		1	2	3	4	5	6	7	8
	1	.100	.300	.015	.008	.003	.500	1.000	-0.000
	*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC)(DISTANCES IN FEET)

REGSEQ		1	2	3	4	5	6	7								
6	1	0	0	400	0	0	400	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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS(LCC)

REGSEQ		1	2	3	4	5	6	7								
6	1	0.0	0.0	4.0	0.0	0.0	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

RAINFALL FACTOR R = 50.



SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=6

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	.98	2.93	.15	.00	.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.49
6	0.00	0.00	0.00	0.00	.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.04
	.98	2.93	.15	.00	.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=6

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	.010	.769	.102	.017	.020	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.918
6	0.000	0.000	0.000	0.000	.082	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.082
	.010	.769	.102	.017	.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=6

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
3	.003	.070	.187	.058	.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.500
6	0.000	0.000	0.000	0.000	.489	.011	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.500
	.003	.070	.187	.058	.671	.011	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=7

HURON, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7									
1	109	43	7408	9936	1308	5726	8	5	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LCC=	LU=	1	2	3	4	5	6	7									
1	1	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7										
1	.35	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8
1	.100	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7								
7 1	400	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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7									
7 1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-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

RAINFALL FACTOR P=75.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=7

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	1.83	5.49	.27	.15	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.80
	1.83	5.49	.27	.15	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=7

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.925	.062	.004	.007	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	.002	.925	.062	.004	.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=7

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.303	.407	.054	.234	.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	.002	.303	.407	.054	.234	.000	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=8

THAMES, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES x FACTOR x)

LCC	X	1	2	3	4	5	6	7									
1	124	65	9986	3910	1478	2442	215	5	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	LCC=	1	2	3	4	5	6	7									
1	1	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7										
1	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	R
1	.100	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7										
8 1	100	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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7										
8 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	-0.0	-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

RAINFALL FACTOR R = 95.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=8

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.76	2.29	.11	.06	.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
	.76	2.29	.11	.06	.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=8

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.002	.973	.019	.004	.002	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	.002	.973	.019	.004	.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=8

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.004	.552	.216	.082	.135	.012	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	.004	.552	.216	.082	.135	.012	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=9

ERIE, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7								
1	100	352	9963	1366	729	2351	267	57	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	LCC=	1	2	3	4	5	6	7								
	1	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7								
1	.40	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	.100	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7								
9 1	100	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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7								
9 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	-0.0	-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

RAINFALL FACTOR R = 90.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION=9

LCC	LAND USE																
	1	2	1	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.72	2.17	.11	.06	.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
	.72	2.17	.11	.06	.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION=9

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.012	.978	.007	.002	.003	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	.012	.978	.007	.002	.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION=9

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	.023	.660	.091	.048	.156	.018	.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	.023	.660	.091	.048	.156	.018	.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=10

GRAND, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS(LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7								
2	60	49	9825	9910	2524	4827	59	12	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7									
LCC=	2	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY UNDER BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7									
1	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	7	3	4	5	6	7	B
1	.100	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7									
10 1	0	600	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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS (LCC)

REGSEQ	1	2	3	4	5	6	7									
10 1	0.0	4.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-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

RAINFALL FACTOR R = 90.



SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 10

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	2.44	7.31	.37	.19	.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81
	2.44	7.31	.37	.19	.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION= 10

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	.002	.940	.047	.006	.006	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	.002	.940	.047	.006	.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 10

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	.002	.361	.364	.093	.177	.002	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	.002	.361	.364	.093	.177	.002	.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

REGION=11

ONTARIO, CANADA

AREAS AY LAND USE AND LAND CAPABILITY CLASS(LCC) (ACRES X FACTOR X)

LCC	X	1	2	3	4	5	6	7								
2		63	1167	6612	9907	3732	4932	109	0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	LCC=	1	2	3	4	5	6	7								
	2	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7							
1	.00	.28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR AY LAND USE (C)

LAND USE	1	2	3	4	5	6	7	8
1	.100	.300	.015	.008	.003	.500	0.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS(LCC)(DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7							
11 1	0	600	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

SLOPE (PERCENT) BY LAND CAPABILITY (LCC)

REGSEQ	1	2	3	4	5	6	7							
11 1	0.0	4.0	0.0	0.0	0.0	0.0	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-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

RAINFALL FACTOR R = 75.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 11

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	1.72	5.17	.26	.14	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
	1.72	5.17	.26	.14	.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION= 11

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	.051	.865	.065	.013	.006	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	1.000
	.051	.865	.065	.013	.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 11

LCC	LAND USE																
	1	2	3	4	5	6	7	A	9	10	11	12	13	14	15	16	
2	.044	.250	.374	.141	.186	.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
	.044	.250	.374	.141	.186	.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

REGION=12

TRENT, CANADA

AREAS BY LAND USE AND LAND CAPABILITY CLASS (LCC) (ACRES x FACTOR X)

LCC	x	1	2	3	4	5	6	7									
2	121	27	2613	9976	3936	3553	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0
6	231	0	0	0	0	9993	482	55	-0	-0	-0	-0	-0	-0	-0	-0	-0

PRACTICE FACTOR BY LU AND LCC (DIVIDE BY 100)

LU=	1	2	3	4	5	6	7										
LCC= 2	100	100	100	100	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0
LCC= 6	0	0	0	0	100	0	0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0

SOIL ERODIBILITY INDEX BY LAND CAPABILITY CLASS (LCC) (K)

LCC=	1	2	3	4	5	6	7										
1	.00	.25	.00	.00	.00	.15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
*	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

COVER FACTOR BY LAND USE (C)

LAND USE=	1	2	3	4	5	6	7	8
1	.100	.300	.015	.008	.003	.500	1.000	-0.000
*	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

SLOPE LENGTH BY LAND CAPABILITY CLASS (LCC) (DISTANCES IN FEET)

REGSEQ	1	2	3	4	5	6	7										
12 1	0	600	0	0	0	600	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

SLOPE (PERCENT) BY LAND CAPABILITY CLASS(LCC)

REGSEQ	1	2	3	4	5	6	7										
12 1	0.0	4.0	0.0	0.0	0.0	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 -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

RAINFALL FACTOR R= 50.

SOIL LOSS (TON/ACRE/YEAR) BY LAND USE AND LAND CAPABILITY CLASS

REGION= 12

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	1.02	3.07	.15	.00	.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.50
6	0.00	0.00	0.00	0.00	.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01
	1.02	3.07	.15	.00	.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

FRACTION OF SOIL LOSS BY LAND USE AND LAND CAPABILITY CLASS

REGION= 12

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	.003	.774	.148	.031	.011	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.966
6	0.000	0.000	0.000	0.000	.034	0.000	0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	.034
	.003	.774	.148	.031	.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

FRACTION OF LAND AREA BY LAND USE AND LAND CAPABILITY CLASS

REGION= 12

LCC	LAND USE																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
2	.001	.065	.248	.098	.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.500
6	0.000	0.000	0.000	0.000	.474	.023	.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	.500
	.001	.065	.240	.098	.563	.023	.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	