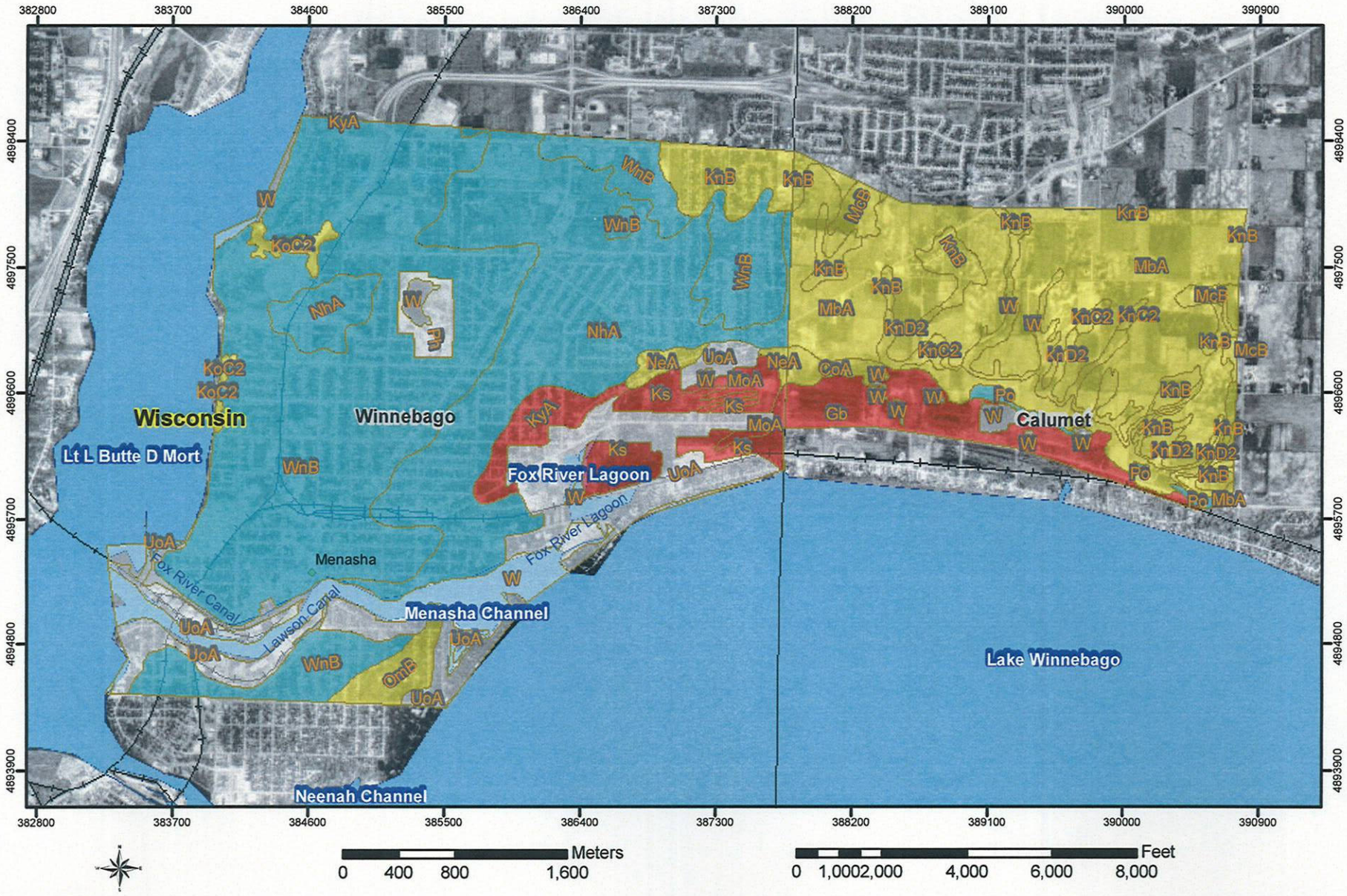
Appendix B

LINEAR EXTENSIBILITY RATING FOR CALUMET AND MANITOWOC COUNTIES, WISCONSIN; WINNEBAGO COUNTY, WISCONSIN

City Shrink Swell



LINEAR EXTENSIBILITY RATING FOR CALUMET AND MANITOWOC COUNTIES, WISCONSIN; WINNEBAGO COUNTY, WISCONSIN

City Shrink Swell

MAP LEGEND

Linear Extensibility

(0 to 60 in), {Dominant Component, >}, [percent]

- Low (0 - 3)
- Moderate (3 - 6)
- High (6 - 9)
- Very High (9 - 30)
- Not rated or not available
- Soil Map Units
- Cities
- Detailed Counties
- Detailed States
- Interstate Highways
- Rails
- Water
- Hydrography
- Oceans

MAP INFORMATION

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov

Coordinate System: UTM Zone 16

Soil Survey Area: Calumet and Manitowoc Counties, Wisconsin
Spatial Version of Data: 4
Soil Map Compilation Scale: 1:15840

Soil Survey Area: Winnebago County, Wisconsin
Spatial Version of Data: 2
Soil Map Compilation Scale: 1:20000

Map comprised of aerial images photographed on these dates:
1992

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Tables - Linear Extensibility

Summary by Map Unit - Winnebago County, Wisconsin

Soil Survey Area Map Unit Symbol	Map Unit Name	Rating (percent)	Total Acres in AOI	Percent of AOI
KnB	Kewaunee silt loam, 2 to 6 percent slopes	5.0	96.6	1.9
KoC2	Kewaunee silty clay loam, 6 to 12 percent slopes, eroded	5.5	29.5	0.6
Ks	Kingsville mucky loamy fine sand	1.5	117.8	2.3
KyA	Korobago silt loam, 0 to 3 percent slopes	2.2	67.7	1.3
MoA	Morocco loamy fine sand, 0 to 3 percent slopes	1.5	38.5	0.8
NeA	Nebago fine sand, 0 to 3 percent slopes	4.1	26.7	0.5
NhA	Neenah silty clay loam, 0 to 3 percent slopes	7.1	874.1	17.2
OmB	Omro clay loam, 2 to 6 percent slopes	3.3	54.7	1.1
Ph	Pits, quarries	Null	40.0	0.8
UoA	Udorthents, 0 to 3 percent slopes	Null	465.2	9.2
W	Water greater than 40 acres	Null	244.6	4.8
WnB	Winneconne silty clay loam, 1 to 4 percent slopes	7.1	1,553.3	30.6

Summary by Map Unit - Calumet and Manitowoc Counties, Wisconsin

Soil Survey Area Map Unit Symbol	Map Unit Name	Rating (percent)	Total Acres in AOI	Percent of AOI
CoA	Cosad loamy fine sand, 0 to 3 percent slopes	3.2	28.4	0.6
Gb	Granby fine sandy loam	1.5	177.3	3.5

Summary by Map Unit - Calumet and Manitowoc Counties, Wisconsin

Soil Survey Area Map Unit Symbol	Map Unit Name	Rating (percent)	Total Acres in AOI	Percent of AOI
KnB	Kewaunee loam, 2 to 6 percent slopes	4.9	127.4	2.5
KnC2	Kewaunee loam, 6 to 12 percent slopes, eroded	4.9	19.5	0.4
KnD2	Kewaunee loam, 12 to 20 percent slopes, eroded	4.9	122.5	2.4
MbA	Manawa silt loam, 0 to 3 percent slopes	4.1	903.2	17.8
McB	Manawa-Kewaunee-Poygan complex, 0 to 4 percent slopes	4.1	45.2	0.9
Po	Poygan silty clay loam	7.0	18.0	0.4
W	Water	Null	22.0	0.4

Description - Linear Extensibility

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

For each soil layer, this attribute is actually recorded as three separate values in the database. A low value and a high value indicate the range of this attribute for the soil component. A "representative" value indicates the expected value of this attribute for the component. For this soil property, only the representative value is used.

Parameter Summary - Linear Extensibility

Units of Measure: percent

Aggregation Method: Dominant Component

Component Percent Cutoff:

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options: Depth Range

Top Depth: 0

Bottom Depth: 60

Units of Measure: Inches

LINEAR EXTENSIBILITY RATING FOR WINNEBAGO COUNTY, WISCONSIN

Carver Shrink Swell

LINEAR EXTENSIBILITY RATING FOR WINNEBAGO COUNTY, WISCONSIN

LINEAR EXTENSIBILITY RATING FOR WINNEBAGO COUNTY, WISCONSIN

Depere Shrink Swell

Meters
0 40 80 160

Feet
0 100 200 400 600 800

Tables - Linear Extensibility

Summary by Map Unit - Winnebago County, Wisconsin

Soil Survey Area Map Unit Symbol	Map Unit Name	Rating (percent)	Total Acres in AOI	Percent of AOI
NhA	Neenah silty clay loam, 0 to 3 percent slopes	7.1	16.3	69.7
WnB	Winneconne silty clay loam, 1 to 4 percent slopes	7.1	7.1	30.3

Description - Linear Extensibility

Linear extensibility refers to the change in length of an unconfined clod as moisture content is decreased from a moist to a dry state. It is an expression of the volume change between the water content of the clod at 1/3- or 1/10-bar tension (33kPa or 10kPa tension) and oven dryness. The volume change is reported as percent change for the whole soil. The amount and type of clay minerals in the soil influence volume change.

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Parameter Summary - Linear Extensibility

Units of Measure: percent

Aggregation Method: Dominant Component

Component Percent Cutoff:

Tie-break Rule: Higher

Interpret Nulls as Zero: No

Layer Options: All Layers