

Indiana Nitrate Leaching Index  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
AahAK	Abscota loamy sand, 0 to 2 percent slopes, occasionally flooded, brief duration	Abscota	16	High
AatAN	Ackerman muck, drained, 0 to 1 percent slopes	Ackerman	7	Moderate
AbhAN	Adrian muck, drained, 0 to 1 percent slopes	Adrian	16	High
AbhAU	Adrian muck, undrained, 0 to 1 percent slopes	Adrian	5	Moderate
ApuAN	Antung muck, drained, 0 to 1 percent slopes	Antung	16	High
AxvA	Auten loam, 0 to 1 percent slopes	Auten	10	High
BaaA	Bainter sandy loam, 0 to 1 percent slopes	Bainter	16	High
BaaB	Bainter sandy loam, 1 to 4 percent slopes	Bainter	16	High
BaaC2	Bainter sandy loam, 4 to 10 percent slopes, eroded	Bainter	16	High
BbmA	Baugo silt loam, 0 to 1 percent slopes	Baugo	10	High
BmgA	Blount silt loam, Lake Michigan Lobe, 0 to 2 percent slopes	Blount	7	Moderate
BshA	Brady sandy loam, 0 to 1 percent slopes	Brady	16	High
BsxA	Brems-Morocco loamy sands, 0 to 1 percent slopes	Brems	16	High
BteA	Brems loamy sand, 0 to 1 percent slopes	Brems	16	High
BuuA	Brookston loam, 0 to 1 percent slopes	Brookston	10	High
CmbAI	Cohoctah loam, 0 to 1 percent slopes, frequently flooded, brief duration	Cohoctah	16	High
CnbA	Coloma sand, 0 to 2 percent slopes	Coloma	16	High
CnbB	Coloma sand, 2 to 5 percent slopes	Coloma	16	High
CnbC	Coloma sand, 5 to 10 percent slopes	Coloma	16	High
CnbD	Coloma sand, 10 to 18 percent slopes	Coloma	16	High
CrrA	Coupee silt loam, 0 to 1 percent slopes	Coupee	10	High
CvdA	Crosier loam, 0 to 1 percent slopes	Crosier	7	Moderate
CvdB	Crosier loam, 1 to 4 percent slopes	Crosier	7	Moderate
CwkA	Crumstown fine sandy loam, 0 to 1 percent slopes	Crumstown	16	High
CwkB	Crumstown fine sandy loam, 1 to 5 percent slopes	Crumstown	16	High
DcrA	Del Rey silty clay loam, 0 to 1 percent slopes	Del Rey	7	Moderate
EchAN	Edwards muck, drained, 0 to 1 percent slopes	Edwards	7	Moderate
EchAU	Edwards muck, undrained, 0 to 1 percent slopes	Edwards	5	Moderate

Indiana Nitrate Leaching Index--Continued  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
EcrAN	Edselton muck, drained, 0 to 1 percent slopes	Edselton	7	Moderate
EcrAU	Edselton muck, undrained, 0 to 1 percent slopes	Edselton	5	Moderate
EmeA	Elston sandy loam, 0 to 1 percent slopes	Elston	16	High
GczA	Gilford sandy loam, 0 to 2 percent slopes, gravelly subsoil	Gilford	10	High
GdnA	Gilford mucky sandy loam, 0 to 1 percent slopes, gravelly subsoil	Gilford	10	High
HfbAN	Henrietta muck, drained, 0 to 1 percent slopes	Henrietta	10	High
HfbAU	Henrietta muck, undrained, 0 to 1 percent slopes	Henrietta	5	Moderate
HkkA	Hillsdale sandy loam, 0 to 1 percent slopes	Hillsdale	10	High
HkkB	Hillsdale sandy loam, 1 to 5 percent slopes	Hillsdale	10	High
HknC2	Hillsdale-Oshtemo sandy loams, 5 to 10 percent slopes, eroded	Hillsdale	10	High
HknD2	Hillsdale-Oshtemo sandy loams, 10 to 18 percent slopes, eroded	Hillsdale	10	High
HkpC2	Hillsdale-Tracy sandy loams, 5 to 10 percent slopes, eroded	Hillsdale	10	High
HkpD2	Hillsdale-Tracy sandy loams, 10 to 18 percent slopes, eroded	Hillsdale	10	High
HtbAN	Houghton muck, drained, 0 to 1 percent slopes	Houghton	16	High
HtbAU	Houghton muck, undrained, 0 to 1 percent slopes	Houghton	5	Moderate
JaaAK	Jamestown silt loam, 0 to 1 percent slopes, occasionally flooded, brief duration	Jamestown	10	High
MfaA	Martinsville loam, 0 to 1 percent slopes	Martinsville	10	High
MfaB2	Martinsville loam, 1 to 5 percent slopes, eroded	Martinsville	10	High
MfaC2	Martinsville loam, 5 to 10 percent slopes, eroded	Martinsville	10	High
MfrAN	Madaus muck, drained, 0 to 1 percent slopes	Madaus	7	Moderate
MfrAU	Madaus muck, undrained, 0 to 1 percent slopes	Madaus	5	Moderate
MgcA	Maumee loamy sand, 0 to 1 percent slopes	Maumee	16	High
MgdAN	Martisco muck, drained, 0 to 1 percent slopes	Martisco	7	Moderate
MhaA	Maumee loamy fine sand, 0 to 1 percent slopes	Maumee	16	High
MhbA	Maumee mucky loamy fine sand, 0 to 1 percent slopes	Maumee	16	High
MmbC2	Miami loam, 5 to 10 percent slopes, eroded	Miami	7	Moderate

Indiana Nitrate Leaching Index--Continued  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
MmdC3	Miami clay loam, 5 to 10 percent slopes, severely eroded	Miami	7	Moderate
MmdD3	Miami clay loam, 10 to 18 percent slopes, severely eroded	Miami	7	Moderate
MouA	Milford silty clay loam, 0 to 1 percent slopes	Milford	7	Moderate
MsaA	Mishawaka sandy loam, 0 to 1 percent slopes	Mishawaka	16	High
MtsB2	Ozaukee silt loam, 2 to 6 percent slopes, eroded	Ozaukee	7	Moderate
MtsC2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	Ozaukee	7	Moderate
MubD3	Morley silty clay loam, 12 to 18 percent slopes, severely eroded	Morley	7	Moderate
MvhAN	Moston muck, drained, 0 to 1 percent slopes	Moston	7	Moderate
MvhAU	Moston muck, undrained, 0 to 1 percent slopes	Moston	5	Moderate
MvkA	Morocco loamy sand, 0 to 1 percent slopes	Morocco	16	High
MwzAN	Muskego muck, drained, 0 to 1 percent slopes	Muskego	7	Moderate
MwzAU	Muskego muck, undrained, 0 to 1 percent slopes	Muskego	5	Moderate
OkrA	Oshtemo fine sandy loam, 0 to 1 percent slopes	Oshtemo	16	High
OkrB	Oshtemo fine sandy loam, 1 to 5 percent slopes	Oshtemo	16	High
OkrC2	Oshtemo fine sandy loam, 5 to 10 percent slopes, eroded	Oshtemo	16	High
OkrD	Oshtemo fine sandy loam, 10 to 18 percent slopes	Oshtemo	16	High
OlcA	Oshtemo sandy loam, 0 to 1 percent slopes	Oshtemo	16	High
OlcB	Oshtemo sandy loam, 1 to 5 percent slopes	Oshtemo	16	High
OlcC2	Oshtemo sandy loam, 5 to 10 percent slopes, eroded	Oshtemo	16	High
OlcD	Oshtemo sandy loam, 10 to 18 percent slopes	Oshtemo	16	High
OmgA	Osolo loamy sand, 0 to 1 percent slopes	Osolo	16	High
PaaAN	Palms muck, drained, 0 to 1 percent slopes	Palms	10	High
PaaAU	Palms muck, undrained, 0 to 1 percent slopes	Palms	5	Moderate
Pmg	Pits, gravel	Pits	0	Not Rated
PxlA	Psammaquents	Psammaquents	0	Not Rated
Pxo	Psamments	Psamments	0	Not Rated
QuiA	Quinn loam, 0 to 1 percent slopes	Quinn	10	High
QujA	Quinn sandy loam, 0 to 1 percent slopes	Quinn	10	High

Indiana Nitrate Leaching Index--Continued  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
RenA	Rensselaer mucky loam, 0 to 1 percent slopes	Rensselaer	10	High
ReyA	Rensselaer loam, 0 to 1 percent slopes	Rensselaer	10	High
RopA	Riddles-Oshtemo fine sandy loams, 0 to 1 percent slopes	Riddles	10	High
RopB	Riddles-Oshtemo fine sandy loams, 1 to 5 percent slopes	Riddles	10	High
RopC2	Riddles-Oshtemo fine sandy loams, 5 to 10 percent slopes, eroded	Riddles	10	High
RopD2	Riddles-Oshtemo fine sandy loams, 10 to 18 percent slopes, eroded	Riddles	10	High
RoqB	Riddles-Metea complex, 1 to 5 percent slopes	Riddles	10	High
RoqC2	Riddles-Metea complex, 5 to 10 percent slopes, eroded	Riddles	10	High
RoqD2	Riddles-Metea complex, 10 to 18 percent slopes, eroded	Riddles	10	High
SdzA	Selfridge-Crosier complex, 0 to 1 percent slopes	Selfridge	7	Moderate
SdzaB	Selfridge-Brems loamy sands, 1 to 4 percent slopes	Selfridge	7	Moderate
SesA	Schoolcraft loam, 0 to 1 percent slopes	Schoolcraft	10	High
Sn1A	Southwest silt loam, 0 to 1 percent slopes	Southwest	7	Moderate
TmpA	Tracy sandy loam, 0 to 1 percent slopes	Tracy	10	High
TmpB	Tracy sandy loam, 1 to 5 percent slopes	Tracy	10	High
TmpC2	Tracy sandy loam, 5 to 10 percent slopes, eroded	Tracy	10	High
TmpD	Tracy sandy loam, 10 to 18 percent slopes	Tracy	10	High
TnwA	Troxel silt loam, 0 to 1 percent slopes	Troxel	10	High
TxuA	Tyner loamy sand, 0 to 1 percent slopes	Tyner	16	High
TxuB	Tyner loamy sand, 1 to 5 percent slopes	Tyner	16	High
TxuC	Tyner loamy sand, 5 to 10 percent slopes	Tyner	16	High
TxuD	Tyner loamy sand, 10 to 18 percent slopes	Tyner	16	High
TxuF	Tyner loamy sand, 18 to 45 percent slopes	Tyner	16	High
Uam	Udorthents, loamy	Udorthents	0	Not Rated
UdeA	Urban land-Bainter complex, 0 to 1 percent slopes	Bainter	16	High
UdeB	Urban land-Bainter complex, 1 to 4 percent slopes	Bainter	16	High
UdeC	Urban land-Bainter complex, 4 to 10 percent slopes	Bainter	16	High
UdkA	Urban land-Brady complex, 0 to 1 percent slopes	Brady	16	High

Indiana Nitrate Leaching Index--Continued  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
UdzA	Urban land-Auten complex, 0 to 1 percent slopes	Auten	10	High
UeaA	Urban land-Crosier complex, 0 to 3 percent slopes	Crosier	7	Moderate
UeqA	Urban land-Gilford complex, 0 to 1 percent slopes	Gilford	16	High
UewA	Urban land-Brems-Morocco complex, 0 to 1 percent slopes	Brems	16	High
UfbA	Urban land-Brookston complex, 0 to 1 percent slopes	Brookston	10	High
UfhA	Urban land-Coloma complex, 0 to 2 percent slopes	Coloma	16	High
UfhB	Urban land-Coloma complex, 2 to 5 percent slopes	Coloma	16	High
UfhC	Urban land-Coloma complex, 5 to 10 percent slopes	Coloma	16	High
UfmA	Urban land-Coupee complex, 0 to 1 percent slopes	Coupee	10	High
UfrA	Urban land-Del Rey complex, 0 to 1 percent slopes	Del Rey	7	Moderate
UftA	Urban land-Elston complex, 0 to 1 percent slopes	Elston	16	High
UfzA	Urban land-Mishawaka complex, 0 to 1 percent slopes	Mishawaka	16	High
UgaA	Urban land-Morocco complex, 0 to 1 percent slopes	Morocco	16	High
UglA	Urban land-Osolo complex, 0 to 1 percent slopes	Osolo	16	High
UgrA	Urban land-Rensselaer complex, 0 to 1 percent slopes	Rensselaer	10	High
UgsA	Urban land-Riddles-Oshtemo complex, 0 to 1 percent slopes	Riddles	10	High
UgsB	Urban land-Riddles-Oshtemo complex, 1 to 5 percent slopes	Riddles	10	High
UgvA	Urban land-Tyner complex, 0 to 1 percent slopes	Tyner	16	High
UgvB	Urban land-Tyner complex, 1 to 5 percent slopes	Tyner	16	High
UgvC	Urban land-Tyner complex, 5 to 10 percent slopes	Tyner	16	High
UgvD	Urban land-Tyner complex, 10 to 18 percent slopes	Tyner	16	High
UhmA	Urban land-Hillsdale complex, 0 to 1 percent slopes	Hillsdale	10	High
UhmB	Urban land-Hillsdale complex, 1 to 5 percent slopes	Hillsdale	10	High
UhoC	Urban land-Hillsdale-Oshtemo complex, 5 to 10 percent slopes	Hillsdale	10	High
UhoD	Urban land-Hillsdale-Oshtemo complex, 10 to 18 percent slopes	Hillsdale	10	High
UhpC	Urban land-Hillsdale-Tracy complex, 5 to 10 percent slopes	Hillsdale	10	High
UhpD	Urban land-Hillsdale-Tracy complex, 10 to 18 percent slopes	Hillsdale	10	High
UhwA	Urban land-Martinsville complex, 0 to 1 percent slopes	Martinsville	10	High

Indiana Nitrate Leaching Index--Continued  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
Uhwb	Urban land-Martinsville complex, 1 to 5 percent slopes	Martinsville	10	High
Uhwc	Urban land-Martinsville complex, 5 to 10 percent slopes	Martinsville	10	High
UkaA	Urban land-Maumee complex, 0 to 1 percent slopes	Maumee	16	High
UkeA	Urban land-Milford complex, 0 to 1 percent slopes	Milford	7	Moderate
UkxA	Urban land-Oshtemo complex, 0 to 1 percent slopes	Oshtemo	16	High
UkxB	Urban land-Oshtemo complex, 1 to 5 percent slopes	Oshtemo	16	High
UkxC	Urban land-Oshtemo complex, 5 to 10 percent slopes	Oshtemo	16	High
UmfB	Urban land-Riddles-Metea complex, 1 to 5 percent slopes	Riddles	10	High
UmfC	Urban land-Riddles-Metea complex, 5 to 10 percent slopes	Riddles	10	High
UmfD	Urban land-Riddles-Metea complex, 10 to 18 percent slopes	Riddles	10	High
UmpA	Urban land-Schoolcraft complex, 0 to 1 percent slopes	Schoolcraft	10	High
UmuA	Urban land-Southwest complex, 0 to 1 percent slopes	Southwest	7	Moderate
UmwA	Urban land-Tracy complex, 0 to 1 percent slopes	Tracy	10	High
UmwB	Urban land-Tracy complex, 1 to 5 percent slopes	Tracy	10	High
UmwC	Urban land-Tracy complex, 5 to 10 percent slopes	Tracy	10	High
UmwD	Urban land-Tracy complex, 10 to 18 percent slopes	Tracy	10	High
UmxA	Urban land-Troxel complex, 0 to 1 percent slopes	Troxel	10	High
UnoA	Urban land-Whitaker complex, 0 to 1 percent slopes	Whitaker	10	High
UnqB	Urban land-Williamstown-Crosier complex, 1 to 5 percent slopes	Williamstown	7	Moderate
UntA	Urban land-Wunabuna complex, 0 to 1 percent slopes	Wunabuna	10	High
Usl	Udorthents, rubbish	Udorthents, Rubbish	0	Not Rated
W	Water	Water	0	Not Rated
WcnAI	Waterford loam, 0 to 2 percent slopes, frequently flooded, long duration	Waterford	5	Moderate
WoaA	Williamstown loam, 0 to 1 percent slopes	Williamstown	7	Moderate
WoaB2	Williamstown loam, 1 to 5 percent slopes, eroded	Williamstown	7	Moderate
WoaC2	Williamstown loam, 5 to 10 percent slopes, eroded	Williamstown	7	Moderate
WobB	Williamstown-Crosier loams, 1 to 5 percent slopes	Williamstown	7	Moderate

Indiana Nitrate Leaching Index--Continued  
 St. Joseph County, Indiana: Detailed Soil Map Legend

Map symbol	Map unit name	Component	NLI	Rating
WrxAN	Wunabuna silt loam, drained, 0 to 1 percent slopes	Wunabuna	10	High
WtbA	Whitaker loam, 0 to 1 percent slopes	Whitaker	10	High
WujB	Williamstown-Moon complex, 1 to 5 percent slopes	Williamstown	7	Moderate

Nitrate Leaching Index

Nitrate Leaching Index (NLI) was developed using annual precipitation, rainfall distribution data and hydrologic soil groups. The NLI is used to determine the degree to which water percolates below the crop rooting zone in certain soils.

Rating classes

- LI 0 Not Rated
- LI 1 - 2 Low probability for leaching loss.
- LI 3 - 9 Moderate probability for leaching loss.
- LI 10+ High probability for leaching loss.