

A man in a dark, long-sleeved shirt stands in profile on the right side of the frame, looking out over a vast, green field. The scene is set during sunset or sunrise, with a warm, golden glow from the sun on the horizon. The background shows rolling hills under a soft, hazy sky. The overall mood is contemplative and serene.

CREP & CRP Planning Tools



DEFINITION

Planning tools are resources available to conservation planners that help in the process of evaluating a site's current condition by identifying resource concerns and estimating the impact an implemented practice will have. Planning tools help make planning recommendations using this information.

Web Soil Survey

Creation of soil maps and map unit descriptions by specific area of interest (AOI). Provides hydric features and information.

RUSLE 2

Predicts tons of soil loss by sheet and rill erosion on sites based on soil type, slope, and current management practices.

Wildlife Habitat Evaluation Guide

Assesses landscape for wildlife using a model that determines the degree to which a resource management system meets quality criteria.

MNFI/IPAC

Provides information on Michigan's endangered, threatened, or otherwise significant plant and animal species, natural plant communities, and other natural features.

eFOTG

Contains technical information about the conservation of soil, water, air, and related plant and animal resources.

Tree/Shrub Suitability Group

Contains technical information on what tree species are suitable for soil types.

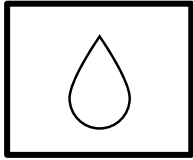
Seeding Tables

Contains technical information to assist planners in making grass and forb recommendations.

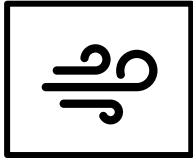
A woman in a red plaid shirt is standing in a field, holding a white paper aloft with her right hand. She has a joyful expression. The background is a blurred field with some yellow flowers.

**COMMONLY USED
TOOLS**

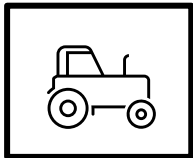
RUSLE 2



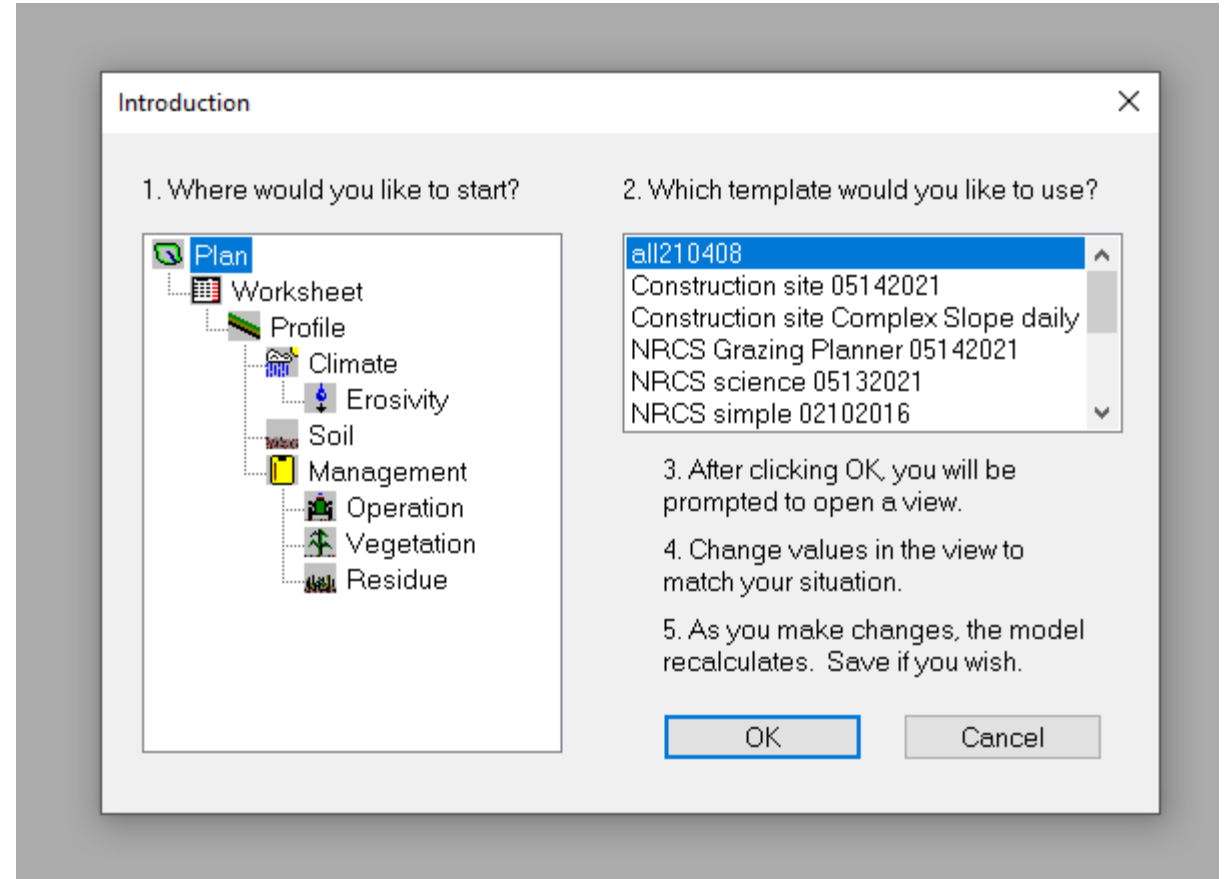
Water erosion



Wind erosion



Management system



FIELD OFFICE TECHNICAL GUIDE

“eFOTG”



Welcome to the
NRCS Field Office Technical Guide

Michigan (MI) ▾ →

About FOTG

Technical guides are the primary scientific references for NRCS. They contain technical information about the conservation of soil, water, air, and related plant and animal resources.

Technical guides used in each field office are localized so that they apply specifically to the geographic area for which they are prepared. These documents are referred to as Field Office Technical Guides (FOTGs).

Appropriate parts of the Field Office Technical Guides are automated as databases, computer programs, and other electronic-based materials such as those included in these web based pages.

FOTG Sections

Section 1 - General Resource References

- General state maps.
- Descriptions of Major Land Resource Areas, watershed information, and links to NRCS reference manuals and handbooks.
- Links to researchers, universities, and agencies we work with.
- Conservation practice costs and agricultural laws and regulations.

Section 2 - Natural and Cultural Resources Information

- Detailed information about soil, water, air, plant, and animal resources.
- Cultural resources and information about protected plant and animal species.
- NRCS Soil Surveys, Hydric Soils Interpretations, Ecological Site Descriptions, Forage Suitability Groups, Cropland Production Tables, Wildlife Habitat Evaluation Guides, Water Quality Guides, and other related information can be found here as it becomes available.

Section 3 - Resource Concerns and Planning Criteria

- NRCS Quality Criteria, which establish standards for resource conditions that help provide sustained use.

Section 4 - Practice Standards and Supporting Documents

- NRCS Conservation Practice Standards that define the practice and where it applies. Practice specifications are detailed requirements for installing the practice in the state.

Section 5 - Conservation Effects

- Background information on how Conservation Practices affect each identified resource concerns in the state.

EFOTG

- Practice standards/Job sheets
- Tree/shrub suitability groups
- Seeding tables



NRCS Employee Websites

- AgLearn
- CART
- Concur Travel System
- ConnectHR [↗](#)
- Conservation Desktop
- eDirectives
- eForms
- Employee Assistance Program
- Employee Personal Page
- EmpowHR
- Exhibits & Displays [↗](#)
- FA Tracker
- FMI document management system
- FOTG - Field Office Technical Guide
- FSA Compliance Review System
- National Planning Procedures Handbook [↗](#)
- National Publications & Distribution Center
- NEST (Easements Staging Tool)
- NFC - National Finance Center
- ProTracts
- PRS
- Receipt for Service
- Resource Stewardship (RSET)
- Science & Technology Training Library [↗](#)
- Soil Resources
- Thrift Savings Plan [↗](#)
- Vehicle Management Tool [↗](#)
- WebTA

WILDLIFE HABITAT EVALUATION GUIDE

eFOTG>Michigan>Section 1>MI Tech Notes>Biology>No. 12

Michigan

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Section 1 - General Resource References

Economic Cost Data

Erosion prediction

eTech Guide Notices

Laws

Maps

Michigan Technical Notes

Agronomy

Biology

Biology

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| Document Title | Type | Pub Date | End Date | Subject | Keywords | Abstract | Size (kb) | Info |
|--|------|------------|----------|--|-------------------------------|----------|-----------|------|
| No. 06 Wild Rice Production in Constructed Paddies | | 2004-11-23 | -- | Biology, Technical Notes, Wildlife | wild rice | -- | 343 | |
| No. 12 Wildlife Habitat Evaluation | | 2007-04-27 | -- | Biology, Wildlife | habitat; wildlife | -- | 190 | |
| No. 15 Guidelines for Herbaceous Stand Evaluation | | 2004-11-23 | -- | Biology, Technical Notes, Grazing Land Management, Pasture | stand; herbaceous; evaluation | -- | 216 | |



WHEG EXAMPLE

MICHIGAN HABITAT INDEX WORKSHEET

GRASSLAND¹

Participant _____ Tract No. _____ Date _____ Field No. _____

Observer _____ Acres _____

EXISTING CONDITION

| Habitat Type | Habitat Index | x | Acres | = | Weighted Index | CTU |
|---|---------------|---|-------|---|----------------|-------|
| Cropland | _____ | x | _____ | = | _____ | |
| Woodland | _____ | x | _____ | = | _____ | |
| Pastureland/Hayland | _____ | x | _____ | = | _____ | |
| Grassland | _____ | x | _____ | = | _____ | |
| Shrubland | _____ | x | _____ | = | _____ | |
| Wetland | _____ | x | _____ | = | _____ | |
| SUM TOTALS | | | | | | |
| TOTAL WEIGHTED INDEX/TOTAL ACRES | | | | | | _____ |

PLANNED CONDITION

| Habitat Type | Habitat Index | x | Acres | = | Weighted Index | CTU |
|---|---------------|---|-------|---|----------------|-------|
| Cropland | _____ | x | _____ | = | _____ | |
| Woodland | _____ | x | _____ | = | _____ | |
| Pastureland/Hayland | _____ | x | _____ | = | _____ | |
| Grassland | _____ | x | _____ | = | _____ | |
| Shrubland | _____ | x | _____ | = | _____ | |
| Wetland | _____ | x | _____ | = | _____ | |
| SUM TOTALS | | | | | | |
| TOTAL WEIGHTED INDEX/TOTAL ACRES | | | | | | _____ |

| GRASSLAND HABITAT INDEX | POINTS | EXISTING | PLANNED |
|---|--------|----------|---------|
| 1. Species Composition (Diversity) | | | |
| 2 points for each common ² grass species and 2 points for each common forb or broadleaf species with a maximum total of 14 points. | | | |
| | | _____ | _____ |
| 2. Presence of Bare Ground | | | |
| > 40% bare ground/light litter | 0 | _____ | _____ |
| 30-39% bare ground/light litter | 5 | _____ | _____ |
| 10-29% bare ground/light litter | 10 | _____ | _____ |
| 1-9% bare ground/light litter | 5 | _____ | _____ |
| < 1% bare ground/light litter | 0 | _____ | _____ |
| 3. Average Field Size | | | |
| > 40 acres | 10 | _____ | _____ |
| 20-40 acres | 8 | _____ | _____ |
| 5-19 acres | 4 | _____ | _____ |
| < 5 acres | 0 | _____ | _____ |
| 4. Abundance of Grasslands Within 1 Mile Radius | | | |
| Comprises >25% of area | 10 | _____ | _____ |
| Comprises 11-25% of area | 7 | _____ | _____ |
| Comprises 1-10% of area | 3 | _____ | _____ |
| Comprises <1% of area | 0 | _____ | _____ |



Note: In general, a habitat index below 0.3 indicates poor habitat, between 0.3 and 0.49 indicates fair habitat, between 0.5 and 0.75 is good habitat, and above 0.75 would be considered excellent habitat.

MICHIGAN NATURAL FEATURES INVENTORY

MNFI is a frequently updated system that allows conservation planners to see if there have been any reported sightings of threatened or endangered species in the planning area.

Must be documented on the CPA-52 form. Used to confirm that implementing a practice will not negatively impact a special concern species.

IPAC is another similar database needed for any forestry practices – through USFWS.

Both require login access.

MNFI Home Contact Us Plant List Animal List Abstracts Help

Michigan Natural Features Inventory

Web Database Search

Search Results for Town 07S, Range 02E, Section 16 and Lenawee County

Displaying Record 1 to 1 of 1 Records Found

Query Results Generated on May 31, 2022
Database Updated on May 01, 2022

New Search Refine Search Previous 25 Records Next 25 Records

| Common Name | Scientific Name | State Status | Federal Status | Last Observed Date | Element Category | Mapping Precision | General Site Description | EO Data | Site of Observation | Best Documentation of EO | Town | Range | Section | County |
|----------------|----------------------|--------------|----------------|--------------------|------------------|-------------------|--------------------------|---|---------------------|--|------|-------|--|---------|
| Pickereel frog | Lithobates palustris | SC | | 2006-04-02 | Animal | | | MI Herp Atlas Data 1998-03-28 to 2005-04-10: 4 individuals obs in T07SR02E26 2000-04-02: 1 individual obs in T07SR02E17 2003-05-05: 1 individual obs in T07SR02E01 2004-04-06: 1 individual obs in T07SR02E18 2004-04-06 to 2006-04-02: 3 individuals obs in T07SR02E24 2005-04-10: 1 individual obs in T07SR02E17 | Dover Twp | MI Herp Atlas 2019. Excel spreadsheet containing MI Herp Atlas data and mxd for spatial reference. | 07S | 02E | 1, 7, 8, 9, 13, 16, 17, 18, 23, 24, 25, 26 | Lenawee |

New Search Refine Search Previous 25 Records Next 25 Records

TREE/SHUB SUITABILITY GROUPS

eFOTG>Michigan>Section 2>Forestry Information>CTSGs



Michigan

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Keyboard Navigation Instructions

- Section 1 - General Resource References
- Section 2 - Natural and Cultural Resources Information
 - Agronomy Information
 - Climatic Data
 - Cultural Resources Information
 - Ecological Site Descriptions
 - Forestry Information
 - Conservation Tree/Shrub Suitability Groups (CTSGs)**

Conservation Tree/Shrub Suitability Groups (CTSGs)

Export Grid Highlights Only

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| Document Title | Type | Pub Date | End Date | Subject | Keywords | Abstract | Size (kb) | Info |
|--|------|------------|----------|---------------------------|----------|--|-----------|------|
| Conservation Tree/Shrub Suitability Groups (CTSGs) Worksheet | | 2021-02-22 | -- | Forestry and Agroforestry | -- | Conservation Tree/Shrub Suitability Groups (CTSGs) Worksheet | 274 | |
| CTSG Soil Descriptions | | 2010-03-31 | -- | -- | -- | -- | 180 | |

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TREE/SHUB SUITABILITY GROUPS

eFOTG>Michigan>Section 2>Forestry Information>CTSGs

1. Identify soil type in *All Soils* tab
2. Go to that CTSG tab
3. Filter by region
4. View all species that are suitable for that soil type

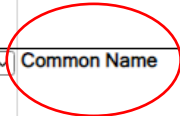
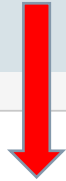


| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|----|--------------|-----|---|---|---|---|---|---|---|---|---|---|---|
| 35 | BADAXE | 1 | that have a low to high available water capacity. The depth to a water table during the growing season is greater than 1.5 feet. Some soils in this group may have a root restrictive layer at a depth of greater than 40 inches. Some soils in this group may experience frequent or occasional flooding for brief durations. Soils in this group may have skeletal profiles. | | | | | | | | | | |
| 36 | BADAXE | 1 | | | | | | | | | | | |
| 37 | BADRIVER | 1 | | | | | | | | | | | |
| 38 | BAMFIELD | 3K | | | | | | | | | | | |
| 39 | BANAT | 1 | | | | | | | | | | | |
| 40 | BARRY | 2K | | | | | | | | | | | |
| 41 | BATTLEFIELD | 1 | | | | | | | | | | | |
| 42 | BATTYDOE | 5K | Group 5 | | | | | | | | | | |
| 43 | BEARTOWN | 2SF | Soils in CTSG-5 are deep, loamy, moderately well to well drained soils with a moderate available water capacity. The depth to a water table during the growing season is greater than 1.5 feet. Soils in this group are at least 40 inches in depth to a restrictive layer. Some soils in this group may experience frequent or occasional flooding for brief durations. | | | | | | | | | | |
| 44 | BEAVERTAIL | 10 | | | | | | | | | | | |
| 45 | BEECHWOOD | 1 | | | | | | | | | | | |
| 46 | BELDING | 1 | | | | | | | | | | | |
| 47 | BELLEVILLE | 2G | | | | | | | | | | | |
| 48 | BENONA | 7 | | | | | | | | | | | |
| 49 | BENZONIA | 7 | | | | | | | | | | | |
| 50 | BERGLAND | 2C | Group 6 | | | | | | | | | | |
| 51 | BERVILLE | 2 | Soils in CTSG-6 are moderately deep and have a root restrictive layer 20 to 40 inches in depth. These soils are moderately well to well drained and have a low to moderate available water capacity. The depth to a water table during the growing season is greater than 1.5 feet. Soils in this group have bedrock fragipan or sand and gravel present in the profile at 20 to 40 inches. | | | | | | | | | | |
| 52 | BESEMAN | 2HA | | | | | | | | | | | |
| 53 | BETEGRISE | 1 | | | | | | | | | | | |
| 54 | BIRGIRON | 1 | | | | | | | | | | | |
| 55 | BISCUIT | 1 | | | | | | | | | | | |
| 56 | BIXBY | 6G | Group 7 | | | | | | | | | | |
| 57 | BIXLER | 1 | Soils in CTSG-7 are moderately deep to deep sandy soils that are moderately well drained to excessively drained. The depth to a water table during the growing season is greater than 1.5 feet. These soils have low to moderate available water capacity. These soils may have a restrictive layer at 20 inches or more in depth. Group 7w soils have a water table influence between 1.5 and 6.5 feet deep during the growing season. | | | | | | | | | | |
| 58 | BLOUNT | 1 | | | | | | | | | | | |
| 59 | BLUE LAKE | 7 | | | | | | | | | | | |
| 60 | BLUEBILL | 2 | | | | | | | | | | | |
| 61 | BODI | 6 | | | | | | | | | | | |
| 62 | BOHEMIA | 6 | | | | | | | | | | | |
| 63 | BOHEMIAN | 3 | | | | | | | | | | | |
| 64 | BONO | 2 | Groups 8 and 9 do not occur within Michigan and have been excluded from this tool. | | | | | | | | | | |
| 65 | BOOTS | 2 | | | | | | | | | | | |
| 66 | BORGSTROM | 10D | | | | | | | | | | | |
| 67 | BOWERS | 1 | Group 10 | | | | | | | | | | |
| 68 | BOWSTRING | 2HF | Soils in CTSG-10 have one or more characteristics that are severely limiting to the planting and growth of trees and shrubs. Soil depth is less than 20 inches; available water capacity is less than 3 inches; some soils may have cobbles, fragipan, bedrock, sand and gravel or other restrictive layers at less than 20 inches that may make tree/shrub establishment difficult. Some soils in this group may experience frequent or occasional flooding for very long durations. Some soils may have a pH of < 4.0. These soils also include urban land, made land and miscellaneous land types. An on-site evaluation | | | | | | | | | | |
| 69 | BOYER | 5K | | | | | | | | | | | |
| 70 | BRADY | 1 | | | | | | | | | | | |
| 71 | BRANCH | 7W | | | | | | | | | | | |
| 72 | BRECKENRIDGE | 2 | | | | | | | | | | | |
| 73 | BREMS | 7W | | | | | | | | | | | |
| 74 | BRETHREN | 7W | | | | | | | | | | | |

TREE/SHUB SUITABILITY GROUPS

eFOTG>Michigan>Section 2>Forestry Information>CTSGs

| *See definitions and descriptions of these tree/shrub characteristics below this table. | | | | | | | | SLP Climate Chg. Projection | | NLP/EUP Climate Chg. Projection | | WUP Climate Chg. Projection | | Scientific Name | | Common Name | | State Status | Current Region | CTSG |
|---|------------|---------------------|---------------------|------------------|------------------|----------------------|----|-----------------------------|-----|---------------------------------|-----|-----------------------------|-----|-----------------|--|-------------------------------|----|--------------|----------------|------|
| Form | MI Native? | 20 yr. Height (ft.) | Mature Height (ft.) | Shad(Toler-ance | Deer Browse Risk | Comme-cially Avail.? | Lo | Hig | Low | High | Low | High | Low | High | | | | | 1 | |
| tree | yes | 18 | 60 | T | L, M, H | A | | | ↓ | ↓ | ↓ | ↓ | | | <i>Abies balsamea</i> | balsam fir | | UP, NLP | 1 | |
| tree | yes | 35 | 60 | T | | A | ↑ | ↑ | ↑ | ↑ | ● | ● | | | <i>Acer negundo</i> | boxelder | | ALL | 1 | |
| tree | yes | 35 | 90 | T | M, H | A | ↓ | ↓ | ● | ● | ● | ● | | | <i>Acer rubrum</i> | red maple | | ALL | 1 | |
| tree | yes | 45 | 80 | M | M | A | ↑ | ↑ | ↑ | ↑ | ● | ● | | | <i>Acer saccharinum</i> | silver maple | | ALL | 1 | |
| tree | yes | 30 | 30 | T | H | | | | ↓ | ↓ | ↓ | ↓ | | | <i>Acer spicatum</i> | mountain maple | | UP, NLP | 1 | |
| shrub | yes | 16 | 16 | M | L | A | | | | | | | | | <i>Alnus incana ssp. rugosa</i> | speckled alder | | ALL | 1A | |
| shrub | yes | 10 | 10 | M | L | | | | | | | | | | <i>Alnus viridis ssp. Crispa</i> | mountain alder | | UP | 1A | |
| tree | yes | 25 | 100 | M | H | A | ↓ | ↓ | ● | ● | ↓ | ↓ | | | <i>Betula allegheniensis</i> | yellow birch | | ALL | 1 | |
| tree | yes | 40 | 70 | I | L, M | A | ↓ | ↓ | ● | ● | ● | ● | | | <i>Betula papyrifera</i> | white or paper birch | | ALL | 1A | |
| shrub | yes | 20 | 20 | I | | | | | | | | | | | <i>Betula pumila</i> | dwarf or bog birch | | ALL | 1 | |
| tree | yes | 18 | 40 | T | L | A | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | | | <i>Carpinus caroliniana</i> | American hornbeam, blue beech | | ALL | 1 | |
| tree | no | 35 | 120 | I | H | A | + | + | | | | | | | <i>Carya illinoensis</i> | pecan | | none | 1, 1S, 1G | |
| tree | yes | 30 | 100 | I | | A | ↑ | ↑ | ● | ↑ | ↑ | ↑ | | | <i>Carya cordiformis</i> | bitternut hickory | | LP | 1 | |
| tree | yes | 35 | 100 | T | | A | | | | | | | | | <i>Carya laciniosa</i> | shellbark hickory | | SLP | 1 | |
| shrub | yes | 6 | 10 | M | | | | | | | | | | | <i>Ceanothus sanguineus</i> | redstem ceanothus | T | WUP | 1 | |
| tree | no | 35 | 80 | T | L, M | | + | + | | | | | + | | <i>Celtis laevigata</i> | sugarberry | | none | 1 | |
| tree | yes | 26 | 70 | M | | A | ↑ | ↑ | + | + | ↑ | ↑ | | | <i>Celtis occidentalis</i> | northern hackberry | | SLP | 1K | |
| shrub | yes | 20 | 20 | T | | A | | | | | | | | | <i>Cephalanthus occidentalis</i> | buttonbush | | LP | 1 | |
| shrub | yes | 16 | 16 | T | L, H | A | | | + | + | + | + | | | <i>Cercis canadensis</i> | redbud | | SLP | 1 | |
| shrub | yes | 4 | 4 | M | L | | | | | | | | | | <i>Chamaedaphne calyculata</i> | leatherleaf | | ALL | 1 | |
| tree | yes | 25 | 25 | T | M, H | | | | | | | | | | <i>Cornus alternifolia</i> | alternateleaf dogwood | | ALL | 1 | |
| shrub | yes | 7 | 10 | M | M | A | | | | | | | | | <i>Cornus amomum</i> | silky dogwood | | ALL | 1 | |
| subshrub | yes | 0.5 | 0.5 | T | | | | | | | | | | | <i>Cornus canadensis</i> | bunchberry dogwood | | ALL | 1 | |
| shrub | yes | 18 | 18 | M | | A | | | | | | | | | <i>Cornus drummondii</i> | roughleaf dogwood | | SLP | 1 | |
| tree | yes | 30 | 40 | T | M, H | A | ↓ | ↓ | ↓ | ● | | + | | | <i>Cornus florida</i> | flowering dogwood | | SLP | 1 | |
| shrub | yes | 6 | 15 | T | L | A | | | | | | | | | <i>Cornus racemosa</i> | gray dogwood | | ALL | 1 | |
| shrub | yes | 12 | 12 | I | L, M, H | A | | | | | | | | | <i>Cornus sericea ssp. sericea</i> | red-osier dogwood | | ALL | 1 | |
| tree | yes | 30 | 30 | I | L | A | | | | | | | | | <i>Crataegus crus-galli</i> | cockspur hawthorn | | SLP | 1 | |
| shrub | yes | 15 | 15 | M | L | | | | | | | | | | <i>Crataegus douglasii</i> | black hawthorn | SC | UP | 1 | |
| tree | yes | 15 | 30 | M | L | | | | | | | | | | <i>Crataegus punctata</i> | dotted hawthorn | | ALL | 1 | |
| shrub | yes | 2 | 2.5 | M | L | | | | | | | | | | <i>Dasiphora fruticosa ssp. Floribunda</i> | shrubby cinquefoil | | ALL | 1 | |
| subshrub | yes | 8 | 8 | M | | | | | | | | | | | <i>Desmodium verticillatum</i> | swamp lousestrife | | ALL | 1 | |



SEEDING TABLES

eFOTG>Michigan>Section 4>Ecological Sciences Tools>Michigan Common Seeding Tables

Michigan

Change state

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- Ecological Sciences Tools**

Ecological Sciences Tools

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| Document Title | Type | Pub Date | End Date | Subject | Keywords | Abstract | Size (kb) | Info |
|--|------|------------|----------|---------|----------|----------|-----------|------|
| 000 MI EST Grassland Activity Dates Specification Sheet 2009 | | 2005-02-01 | -- | -- | -- | -- | 100 | |
| 000 MI EST Michigan Common Seeding Tables 2018 | | 2018-02-01 | -- | -- | -- | -- | 1284 | |

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SEEDING TABLES

eFOTG>Michigan>Section 4>Ecological Sciences Tools>Michigan Common Seeding Tables

MICHIGAN COMMON SEEDING TABLE February 2018

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386 FIELD BORDERS

TABLE 1 – Planting Table for Grasses, Legumes, and other Forbs

| Species or Seeding Mixture | Cool/ Warm Season | Seeding Rate (Lb/Acre) | Established Density (Stems Per Ft²) | Minimum Mowing Height (In.) 1/ | Sediment Trapping | Nutrient Trapping |
|---|-------------------|-------------------------|-------------------------------------|-----------------------------------|-------------------|-------------------|
| Smooth Bromegrass | Cool | 15-30 | 50 | 4 | Y | |
| Garrison Creeping Foxtail | Cool | 6-10 | 70 | 4 | | Y |
| Orchardgrass | Cool | 10-15 | 70 | 4 | Y | Y |
| Reed Canarygrass | Cool | 10 | 50 | 4 | Y | Y |
| Tall Fescue ** | Cool | 15-25 | 60 | 4 | Y | |
| Tall wheatgrass | Cool | 8-12 | | 6 | Y | |
| Prairie grasses Intermediate Wheatgrass | Cool | 8-12 | 60 | 4 | Y | |
| Big Bluestem | Warm | 10-20* | 40-50 | 12 | | Y |

