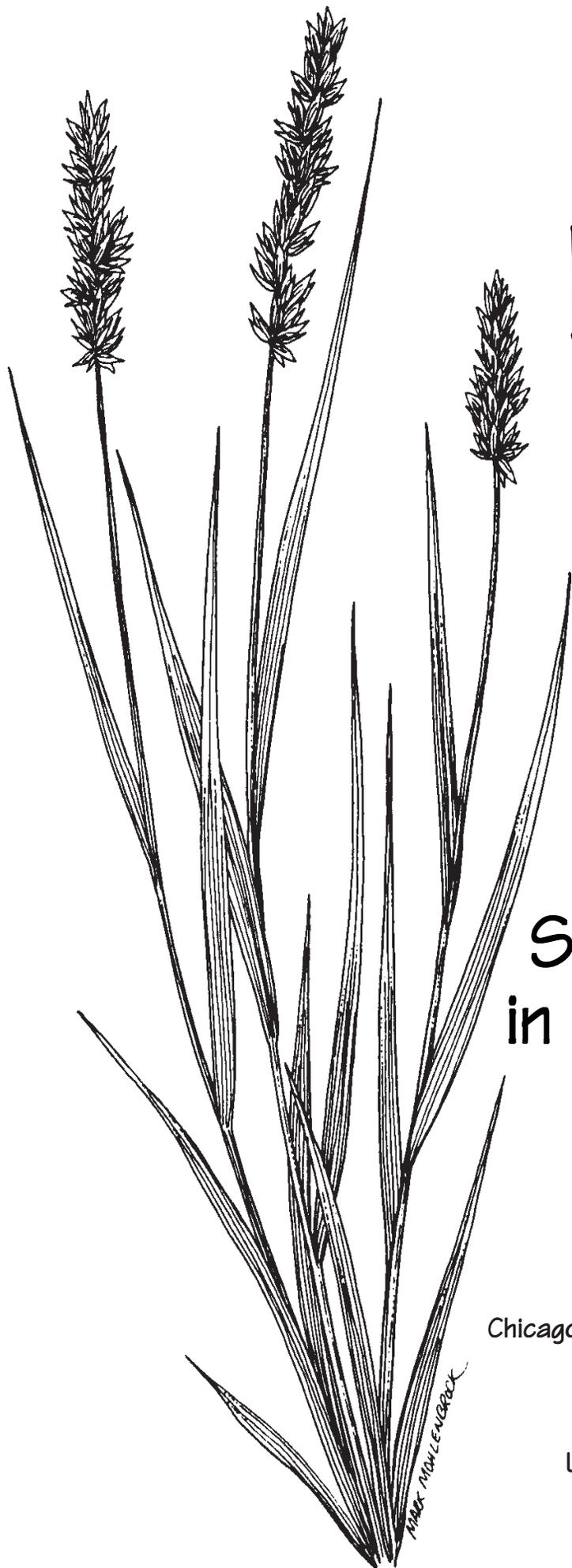


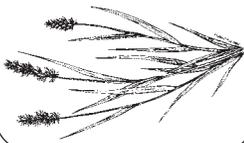
Native Plant Guide



for Streams and
Stormwater Facilities
in Northeastern Illinois

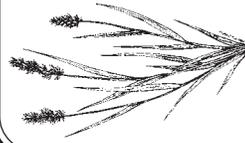
Prepared by
USDA Natural Resources Conservation Service's
Chicago Metro Urban and Community Assistance Office

In Cooperation with
U.S. Environmental Protection Agency, Region 5
U.S. Fish and Wildlife Service, Chicago Field Office
U.S. Army Corps of Engineers, Chicago District
December 1997 (Revised May 2004)



Native Plant Guide

for Streams and Stormwater Facilities in Northeastern Illinois



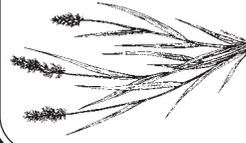
Native Plant Guide

for Streams and Stormwater Facilities in Northeastern Illinois



Native Plant Guide

for Streams and Stormwater Facilities in Northeastern Illinois



Native Plant Guide

for Streams and Stormwater Facilities in Northeastern Illinois

Preface to 2004 Revision

In December 1997, the publication “Native Plant Guide for Streams and Stormwater Facilities in Northeastern Illinois” (commonly known as the Native Plant Guide) was developed and released in a hard copy format. It was prepared by the USDA Natural Resources Conservation Services’ Chicago Metro Urban and Community Assistance Office, in cooperation with U.S. Environmental Protection Agency, Region 5, U.S. Fish and Wildlife Service, Chicago Field Office, and the U.S. Army Corps of Engineers, Chicago District. The many individuals and their contributions to this cooperative effort are listed in the Acknowledgements section of the original guide.

Since its original release, the Native Plant Guide has been widely utilized as a reference in northeastern Illinois, elsewhere in Illinois and other states. It is commonly referenced in stormwater management, soil erosion and sediment control, and detention ordinances—particularly in northeastern Illinois.

In late 2003 an effort was initiated to convert the Native Plant Guide to a digital format and make it available on the Internet on the Illinois NRCS website. Two new appendices were added, and the others were updated as needed. This effort will be the first step toward a potential expansion of the Native Plant Guide and release in a browsable CD format.

Several individuals contributed to the 2004 Revision, digital conversion, and accessibility on the Illinois NRCS website. NRCS Earth Team Volunteer Kara Bowen scanned original plant species images; Visual Information Specialist Cara Clark made file updates and converted original files for digital, web and display use; State Public Affairs Specialist Paige Mitchell-Buck coordinated production and proof-reading, Public Affairs Specialist Jill Rees did graphic design of the CD cover; and Community Assistance Specialist Kent Sims gathered information and updated Appendix A and continually provided impetus and quality oversight for the expansion and success of this project. Jeff Mengler of the U.S. Fish and Wildlife Service’s Chicago, Illinois Field Office, who was a significant contributor to the original Native Plant Guide, provided information for the new/revised Appendices B-E.

The digital version of the Native Plant Guide was created using Adobe Acrobat 6.0. Adobe 6.0 Reader can be downloaded free of charge from www.adobe.com.

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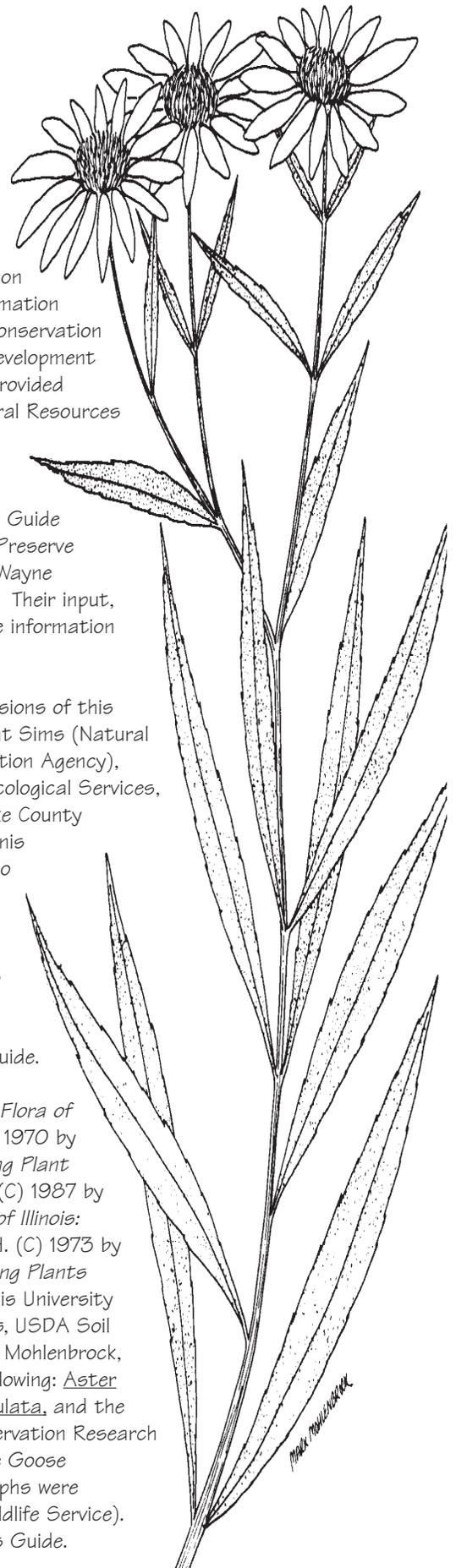
Acknowledgements

The preparation of this Guide could not have been accomplished without the contributions of a number of individuals and organizations. Jeffrey Mengler of the U.S. Fish and Wildlife Service wrote most of the text, conducted the interviews, and edited the plant species information. Sean O'Sullivan, formerly with the Natural Resources Conservation Service, contributed literature information and entered plant species data. Dr. Joy Marburger, formerly with the Natural Resources Conservation Service (then the Soil Conservation Service), contributed literature information for the initial work on this Guide. Kent Sims of the Natural Resources Conservation Service provided leadership and overall project coordination during the development of this Guide. Sue Elston of the U.S. Environmental Protection Agency provided guidance and oversight for the project. Paige Mitchell-Buck of the Natural Resources Conservation Service assisted with conception for the framework of the Guide and with its design and printing.

The following people provided input and information on the species in this Guide through interviews: Ken Klick and James Anderson (Lake County Forest Preserve District), Drew Ullberg (Kane County Forest Preserve District), and Dr. Wayne Schennum and Yolanda Benson (McHenry County Conservation District). Their input, based upon local experience, is an invaluable and fundamental part of the information provided in this Guide.

The following are acknowledged for their input through review of draft versions of this Guide: Michael Johnson, John Rogner (U.S. Fish and Wildlife Service), Kent Sims (Natural Resources Conservation Service), Sue Elston (U.S. Environmental Protection Agency), Jean Sellar (U.S. Army Corps of Engineers), Steve Apfelbaum (Applied Ecological Services, Inc.), Drew Ullberg (Kane County Forest Preserve District), Ken Klick (Lake County Forest Preserve District), Dennis Lubbs (Genesis Nursery, Inc.), and Dennis Dreher and Tom Price (Northeastern Illinois Planning Commission). We also wish to thank Tom Davenport (U.S. Environmental Protection Agency), Nancy Phillips (formerly with the U.S. Environmental Protection Agency), Jim Martin, Gene Barickman (Natural Resources Conservation Service), Gary Parker and Raymond Herman (formerly with the Natural Resources Conservation Service) for their efforts to initiate work on the earliest versions of this Guide. Dr. Gerould Wilhelm and Wayne Lampa of the Conservation Research Institute provided insightful comments on this Guide.

Illustrations in this Guide are used with permission from *The Illustrated Flora of Illinois: Flowering Plants Series: Rush to Rushes* by Mohlenbrock, R.H. (C) 1970 by Southern Illinois University Press; *The Illustrated Flora of Illinois: Flowering Plant Series: Smartweeds to Hazelnuts* by Mohlenbrock, R.H. and Thomson, P. (C) 1987 by the Board of Trustees, Southern Illinois University; *The Illustrated Flora of Illinois: Flowering Plants Series: Grass: Panicum to Danthoia* by Mohlenbrock R.H. (C) 1973 by Southern Illinois University Press; *The Illustrated Flora of Illinois: Flowering Plants Series: Lilies to Orchids* by Mohlenbrock, R.H. (C) 1970 by Southern Illinois University Press, the *Midwestern Wetland Flora, Field Office Guide to Plant Species*, USDA Soil Conservation Service; and *Prairie Plants of Illinois* by John Voigt and R.H. Mohlenbrock, and the Illinois Department of Natural Resources. Illustrations of the following: *Aster lanceolatus*, *Coreopsis tripteris*, *Eupatorium maculatum*, *Vernonia fasciculata*, and the Plant Zone Schematic were provided by Ellen Starr. Heidi Natura (Conservation Research Institute) graciously contributed the prairie plant roots illustration. The Goose Protection Structure drawings were contributed by Dan Lasky. Photographs were contributed by Jeanette Gallihugh and Jeffrey Mengler (U.S. Fish and Wildlife Service). Illustration credits for specific species are included as Appendix F in this Guide.



The following illustrations on the Root Systems of Prairie Plants and the Plant Zone Schematic are available in a large 11x17 size as a PDF file. You may download the large size illustrations at:

<ftp://ftp-fc.sc.egov.usda.gov/IL/techres/npg/NPGpp5-6-11x17.pdf>

Introduction and Purpose

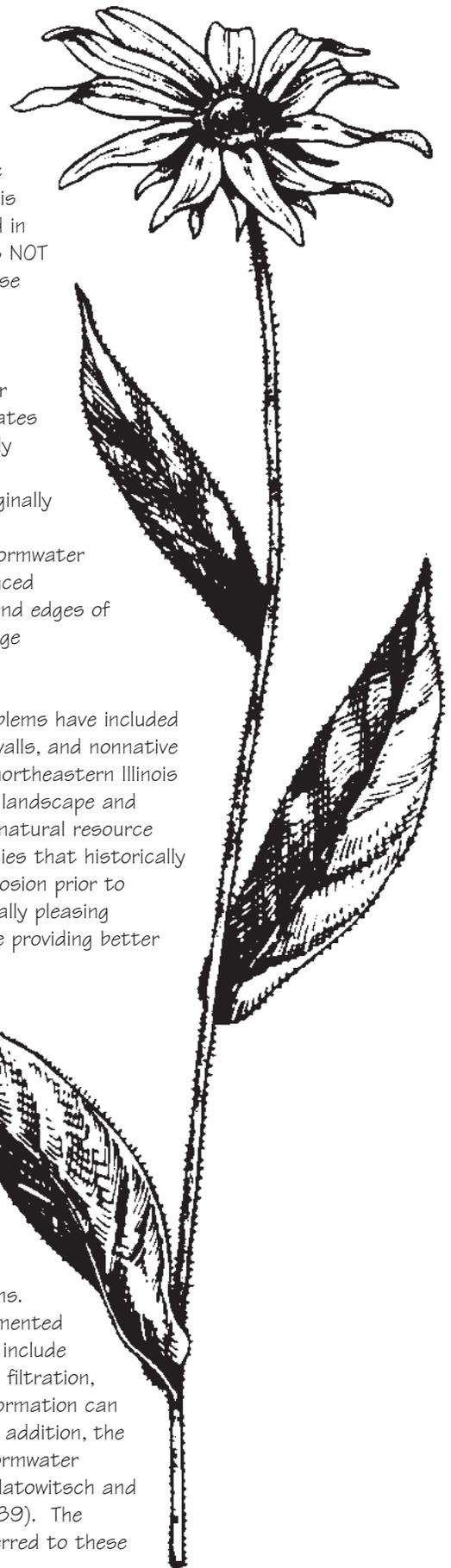
In order to gain the most benefit from the concepts and information presented in this Guide, users must understand the purpose of the Guide and its limitations and must consider the detailed species-specific information. It is important to emphasize at the outset that this Guide is intended to encourage the use of native plant species along streams and in and around stormwater facilities instead of traditional landscaping. It is NOT intended for wetland or prairie restorations or creations, particularly those restorations or creations implemented as part of a Clean Water Act permitted mitigation plan.

Increased urban development in northeastern Illinois has resulted in major changes in the area's hydrologic regime. Presettlement information indicates that only a small percentage of precipitation in a given watershed actually resulted in measurable runoff. In the presettlement landscape, most precipitation was able to infiltrate into the soil. Today, streams which originally meandered have been straightened and channelized to carry larger flows. Stormwater detention basins are utilized to temporarily store excess stormwater generated by impervious surfaces and compacted lawns, as well as displaced floodplains and wetlands. Erosion commonly occurs along streambanks and edges of detention basins as a result of increased stormwater discharges and large fluctuations in water levels.

Traditional methods to control erosion and stormwater management problems have included structural measures such as rock and concrete structures, rip-rap, seawalls, and nonnative plant materials, such as reed canary grass and Kentucky bluegrass. In northeastern Illinois and elsewhere, there is a growing interest in the use of native plants to landscape and stabilize these areas. This approach, recommended or required by many natural resource and regulatory agencies, takes advantage of the deep-rooted native species that historically stabilized the soil, slowed runoff, facilitated infiltration, and decreased erosion prior to development of the area. These species may also offer a more aesthetically pleasing solution to the stormwater and erosion challenges of an urban area, while providing better wildlife habitat.

Native plantings can also provide economic benefits. The "bottom line" can be a strong motivation for installing and maintaining natural landscaping instead of conventional turfgrass. The major savings is in the lower cost of landscape maintenance. Over a ten year period, the combined costs of installation and maintenance for natural landscapes may be one-fifth of the costs for conventional landscape maintenance.

Using native vegetation along streams and in and around stormwater facilities also provides water quality benefits. Pollutants in stormwater can be removed by native vegetation through a combination of mechanisms. Physical, biological, and chemical pollutant removal mechanisms are documented to occur in wetlands and other natural communities. These mechanisms include nutrient uptake, sedimentation, adsorption, precipitation and dissolution, filtration, biochemical interactions, volatilization, and infiltration. More detailed information can be found in Strecker, *et al.* (1992), Adamus, *et al.* (1987), and others. In addition, the processes that occur in natural wetlands, which we try to emulate in stormwater management facilities, are described in Mitsch and Gosselink (1993), Galatowitsch and van der Valk (1994), Marble (1992), Hammer (1992), and van der Valk (1989). The reader who wishes to pursue a more complete wetland restoration is referred to these



five referenced publications for more detailed and comprehensive information. For prairie restorations, Packard and Mutel (1997) is recommended reading.

There are 1,638 native taxa (species or subspecies) of plants found in the Chicago region (Swink and Wilhelm 1994). Native plants are those that are believed to have grown naturally in this region prior to settlement by Europeans. An additional 892 taxa grow naturally but are believed to have been introduced by settlers from other parts of the world. Current ecological understandings indicate that many of these introduced species displace native species and reduce diversity. Of the 2,530 types of plants known in the Chicago region, more than one-third were not here prior to European settlement. Yet out of the nearly 900 nonnative species, only about 150 species are generally successful and persistent. **These 150 nonnative species dominate more than 95 percent of the vegetated landscape.** Most human disturbed or managed landscapes are nearly monocultures, vegetated by only one or a few species. A natural prairie remnant, in contrast, can contain more than 100 species within just two or three acres. This mix of more than 100 species is what is meant by diversity, and is one example of biodiversity. Thus, using native species in stormwater management facilities and for streambank and shoreline stabilization can help increase biodiversity while providing a more aesthetically pleasing landscape. The more diverse native landscapes will be able to withstand more adverse conditions, such as droughts.

Currently, there are no other comprehensive guides that provide information on native species for streams and stormwater facilities in northeastern Illinois. This Guide will provide a valuable new tool for federal, state, and local governments, park districts, developers, landscape architects, engineers, homeowners' associations, and others. While the science of using native plants in urban landscapes is expanding rapidly, much remains to be learned about most aspects of native landscaping in stormwater management facilities and streambank stabilization projects. With each project and with each native landscape restoration in the northeastern Illinois region, information about plant "preferences" and tolerances is obtained. Surprisingly little of this new knowledge is published and that which is, remains difficult for nonscientists to access and apply.

This Guide is an effort to consolidate the information available from as many different sources as possible. It also relies heavily on the knowledge and experience of local restoration ecologists and practitioners. This knowledge and experience encompasses a large amount of information that is not published and is generally not available to those from other disciplines or vocations. *The information in this Guide is intended primarily for use in stormwater management facilities and streambank stabilization projects. Wetland or prairie restorations or mitigation required under Section 404 of the Clean Water Act will likely need to go beyond the species and information in this Guide. True prairie and wetland restorations will not be constrained by detention or other goals and purposes and should include more diverse species communities.* The species selected for inclusion in this Guide are thought to be more tolerant of the harsh urban environment, relative to other more sensitive native species. Species in this Guide are also more easily established and widely available.

This Guide provides practical information in a user-friendly format and will guide the selection and placement of native species in those areas where they can best compete and survive. Individual species are presented on facing pages with several categories of information given for each. Some species were included even if all the information required in a given category was not available. Suggested mixes or lists of species for different applications are also suggested. If users of this Guide have experience or literature references that would add to the information contained herein, this information with references should be sent to: USDA Natural Resources Conservation Service's Plainfield Special Project Office, 313 Naperville Road, Suite J, Plainfield, Illinois 60544 or U.S. Fish and Wildlife Service, Chicago Field Office, 1250 South Grove Avenue, Suite 103, Barrington, Illinois 60010 for possible inclusion in future editions.

Appendix A

Contacts for Further Information

U.S. Fish and Wildlife Service

Chicago, Illinois Field Office
1250 South Grove Ave., Suite 103
Barrington, Illinois 60010
Phone: (847) 381-2253
Fax: (847) 381-2285
<http://www.fsw.gov/midwest/chicago>

U.S. Army Corps of Engineers

Chicago District, Regulatory Branch
111 N. Canal Street, 6th Floor
Chicago, IL 60606-7206
Phone: (312) 846-5535
Fax: (312) 353-4110
<http://www.lrc.usace.army.mil/co-r>

U.S. Environmental Protection Agency

Region 5, WW-16J
77 West Jackson Blvd.
Chicago, IL 60604
Phone: (312) 353-2308
Fax: (312) 886-7804

Kane-DuPage SWCD

USDA-NRCS
2315 Dean Street, Suite 100
St. Charles, IL 60175
Phone: (630)-584-7961 x 3
Fax: (630) 584-9534
<http://www.kanedupageswcd.org>
<http://www.il.nrcs.usda.gov>

Kendall County SWCD

USDA-NRCS
7775A Route 47
Yorkville, IL 60560
Phone (630) 553-5457 x3
Fax (630) 553-7442
<http://www.kendallswcd.org>

Lake County SWCD

USDA-NRCS
100 N. Atkinson Road, Suite 102-A
Grayslake, IL 60030-7805
Phone: (847) 223-1056
Fax: (847) 223-1127
<http://www.lakeswcd.org>
<http://www.il.nrcs.usda.gov>

McHenry County SWCD

USDA-NRCS
1648 South Eastwood Drive
Woodstock, IL 60098
Phone: (815) 338-0099 x 3
Fax: (815) 338-7731
<http://www.mchenryswcd.org>
<http://www.il.nrcs.usda.gov>

North Cook County SWCD

USDA-NRCS
899 Jay Street
Elgin, IL 60120
Phone: (847) 468-0071
Fax: (847) 608-8302
<http://www.northcookswcd.org>
<http://www.il.nrcs.usda.gov>

Will-South Cook SWCD

USDA-NRCS
1201 Gouger Road
New Lenox, IL 60451
Phone: (815) 462-3106 x 3
Fax: (815) 462-3176
<http://www.will-scookswcd.org>
<http://www.il.nrcs.usda.gov>

Chicago Botanic Garden

1000 Lake Cook Road
Glencoe, IL 60022
Phone: (847) 835-5440
<http://www.chicagobotanic.org>

Chicago Metropolitan Agency for Planning Environment and Natural Resources

233 South Wacker Drive, Suite 800
Chicago, IL 60606
Phone: (312) 454-0400
Fax: (312) 454-0411
<http://www.cmap.illinois.gov>

DuPage County Dept of Economic Development and Planning Division of Environmental Concerns

421 County Farm Road
Wheaton, IL 60187
Phone: (630) 407-6700
Fax: (630) 407-6702
<http://www.dupageco.org/edp>

Kane County Department of Environmental Management

719 S. Batavia Avenue, Bldg. A
Geneva, IL 60134
Phone: (630) 208-5118
Fax: (630) 208-5137
<http://www.co.kane.il.us/Environment/index.htm>

Lake County Health Department

Lakes Management Unit
3010 Grand Avenue
Waukegan, IL 60085
Phone: (847) 377-8030
Fax: (847) 249-4972
<http://www.co.lake.il.us/health/ehs/lakes.asp>

Lake County Stormwater Management Commission

333-B Peterson Road
Libertyville, IL 60048
Phone: (847) 918-5260
Fax: (847) 918-9826
<http://www.co.lake.il.us/smc>



Revised 3/2008

Appendix B

List of Native Plant Material Vendors

The following is a list of sources that provide wetland, forest, and prairie plant material and seeds for species native to northeastern Illinois. This information is provided as a public service and does not constitute a recommendation or endorsement, nor does the absence of a firm from the list constitute a negative endorsement. While an effort has been made to provide a complete and accurate listing, omissions or other errors may occur and, therefore, other available sources of information should be consulted.

This list was compiled by the U.S. Fish and Wildlife Service's Chicago, Illinois Field Office. Contact their office, using the information in Appendix A, for any updates or corrections to the list.

Yearly Native Plant Sales

Kane-DuPage SWCD

2315 Dean Street, Suire 100
St. Charles, IL 60175
Phone: (630)-584-7961 x 3
Fax: (630) 584-9534
<http://www.kanedupageswcd.org>

McHenry County SWCD

1648 South Eastwood Drive
Woodstock, IL 60098
Phone: (815) 338-0099 x 3
Fax: (815) 338-7731
<http://www.mchenryswcd.org>

Will-South Cook SWCD

1201 Gouger Road
New Lenox, IL 60451
Phone: (815) 462-3106 x 3
Fax: 815-462-3176
<http://www.will-scookswcd.org>

Lake County Forest Preserves

2000 N. Milwaukee Ave.
Libertyville, IL 60048
Phone: (847) 367-6640

Citizens for Conservation

459 W. Highway 22
Barrington, IL 60010
Phone: (847) 382-7283
<http://www.citizensforconservation.org>

Schaumburg Community Garden Club

c/o Spring Valley Nature Center
1111 E. Schaumburg Rd.
Schaumburg, IL 60194
Phone: (847) 706-6767
<http://www.schaumburggardenclub.com>

The Wildflower Preservation and Propagation Committee

PO Box 634
Crystal Lake, IL 60039
Phone: (815) 455-9462
<http://www.thewppc.org>

Nurseries

Illinois

Country Road Greenhouses

(Wholesale)
19561 E. Twombly Road
Rochelle, IL 61068
Phone: (815) 384-3311
Fax: (815) 384-5015
<http://www.prairieplugs.com>

Essex Nursery, Inc.

7 Suffolk Way
Essex, IL 60935
Phone: (815) 802-8082

Genesis Nursery, Inc.

(Wholesale)
23200 Hurd Road
Tampico, IL 61283
Phone: (815) 438-2220
Fax: (815) 438-2222

Lafayette Home Nursery

RR1, Box 1A
LaFayette, IL 61449
Phone: (309) 995-3311

The Natural Garden

38W443 Hwy. 64
St. Charles, IL 60175
Phone: (630) 584-0150
Fax: (630) 584-0185
<http://www.thenaturalgardeninc.com>

Possibility Place Nursery

(Retail by appointment only)
7548 W. Monee-Manhattan Rd.
Monee, IL 60449
Phone: (708) 534-3988
Fax: (708) 534-6272
<http://www.possibilityplace.com>

Indiana

J.F. New Nursery

128 Sunset Drive
Walkerton, IN 46574-1078
Phone: (574) 586-2412
<http://www.jfnew.com>

Spence Restoration Nursery

(Wholesale)
2220 East Fuson Road
Muncie, IN 47302
Phone: (765) 286-7154
Fax: (765) 286-0264
<http://www.spencenursery.com>

Iowa

Ion Exchange Seed/Plant Nursery

1878 Old Mission Drive
Harper's Ferry, IA 52146-7533
Phone: (800) 291-2143
Fax: (563) 535-7362
<http://www.ionxchange.com>

Wisconsin

Agrecol (retail in quantity)

2918 Agriculture Drive
Madison, WI 53718
Phone: (608) 226-2544
[website http://www.agrecol.com](http://www.agrecol.com)

Kester's Wild Game Food Nurseries

P.O. Box 516
Omro, WI 54963
Phone: (920) 685-2929
Fax: (920) 685-6727
<http://www.kesternursery.com>

Northwind Perennial Farms

7047 Hospital Road
Burlington, WI 53105
Phone: (262) 248-8229
<http://www.northwindperennialfarm.com>

Prairie Nursery

P.O. Box 306
Westfield, WI 53964
Phone: (800) 476-9453
Fax: (608) 296-2741
<http://www.prairienursery.com>

Shady Acres Perennial Nursery

5725 South Martin Road
New Berlin, WI 53146
Phone: (262) 679-1610
<http://www.shadyacresnursery.com>

Taylor Creek Nursery

17921 Smith Rd.
P.O. Box 256
Brodhead, WI 53520
Phone: (608) 897-8641
Fax: (608)897-8486
<http://www.appliedeco.com>

Appendix C

Prescribed Burn Contractor List

The following is a list of consultants in the northeastern Illinois area that provide controlled burning as a service. This information is provided as a public service and does not constitute a recommendation, endorsement or certification of their qualifications or performance record, nor does the absence of a firm from the list constitute a negative endorsement. While an effort has been made to provide a complete and accurate listing, omissions or other errors may occur and therefore other available sources of information should be consulted. Those seeking professional services are advised to use independent judgment in evaluating the credentials of any firms appearing on this list.

This list was compiled by the U.S. Fish and Wildlife Service's Chicago, Illinois Field Office. Contact their office, using the information provided in Appendix A, for any updates or corrections to the list.

Applied Ecological Services, Inc.

Randy Vogel
120 West Main Street
West Dundee, IL 60118
Phone: (708) 906-8185
<http://www.appliedeco.com>

Christopher B. Burke Engineering Ltd.

Jedd Anderson
9575 West Higgins Road, Suite 600
Rosemont, IL 60018
Phone: (847) 823-0500
<http://www.cbbel.com>

ENCAP, Inc.

Joe Alaniz/Carl Peterson
1709 Afton Road
Sycamore, IL 60178
Phone: (815) 899-1621
<http://www.encapinc.net>

Integrated Lakes Management

Keith Gray
120 LeBaron St.
Waukegan, IL 60085
Phone: (847) 244-6662
Email: kgray@lakesmanagement.com
<http://www.lakesmanagement.com>

LaFayette Home Nursery, Inc.

Dave Lahr
RR1, Box 1A
LaFayette, IL 61449
Phone: (309) 995-3311

McGinty Bros., Inc.

Brian Wilson
3744 RFD Cuba Road
Long Grove, IL 60047
Phone: (847) 456-1297
Fax: (847) 438-1883
Email: bwilson@mcgintybros.com

Natural Resource Management, Inc.

Doug Short
P.O. Box 702
Beecher, Illinois 60401
Phone: (708) 935-2100

Pizzo and Associates

Jack Pizzo
10729 Pine Road
Leland, Illinois 60531
Phone: (815) 495-2300
<http://www.pizzo.info/>

Tallgrass Restoration

Mike Fitzpatrick
2221 Hammond Drive
Schaumburg, IL 60173-3813
Phone: (847) 925-9830
www.tallgrassrestoration.com

V3 Companies of Illinois, Ltd.

Tom Slowinski
7325 Janes Avenue, Suite 100
Woodridge, IL 60517
Phone: (630) 724-9200
<http://www.v3co.com>



Appendix D

Natural Areas Contractor List

The following is a list of contractors that provide services including brush cutting, herbicide application, drain tile removal and other similar services in northeastern Illinois. This information is provided as a public service and does not constitute a recommendation or endorsement, nor does the absence of a firm from the list constitute a negative endorsement. While an effort has been made to provide a complete and accurate listing, omissions or other errors may occur and therefore, other available sources of information should be consulted.

This list was compiled by the U.S. Fish and Wildlife Service's Chicago, Illinois Field Office. Contact their office, using the information in Appendix A, for any updates or corrections to the list.

Applied Ecological Services, Inc.

Randy Vogel
120 West Main Street
West Dundee, IL 60118
Cell: (708) 906-8185
www.appliedeco.com

Aramark - ServiceMaster

David Wachtel
2300 Warrenville Road
Downers Grove, Illinois 60515
Phone: (630) 271-2281

Arbor Images

Kevin Remer
W296 Spring Prairie Road
Burlington, WI 53105
Phone: (262) 763-4645
arborimagesinc.com/index.html

Backtrack Construction

John Suchy
372 West County Line Road
Barrington, IL 60010
Phone: (847) 381-6182
Cell (847) 204-0245

Civil Engineering Services, Inc.

Rick Woodford
700 E. Diehl Road, Suite 180
Naperville, Illinois 60563
Phone: (630) 577-1551
www.civilesi.com

Conservation Land Stewardship

Ken Willis
375 W. First Street
Elmhurst, Illinois 60126
Phone: (630) 559-2039
conservationlandstewardship.com

ENCAP, Inc.

Joe Alaniz/Carl Peterson
1709 Afton Road
Sycamore, IL 60178
Phone: (815) 899-1621
www.encapinc.net

Illinois Natural Areas Improvements

Bryon Walters
3885 E 550th Road
Mendota, IL 61342
Phone: (815) 539-9011

Integrated Lakes Management, Inc.

Keith Gray
120 LeBaron St.
Waukegan, IL 60085
Phone: (847) 244-6662
www.lakesmanagement.com

J.F. New & Associates

Andrew Blackburn
6605 Steger Road, Unit A
Monee, Illinois 60449-7019
Phone: (708) 534-3450
www.jfnew.com/

Lafayette Home Nursery, Inc.

Dave Lahr
RR1, Box 1A
LaFayette, IL 61449
Phone: (309) 995-3311

McGinty Bros., Inc

Brian Wilson
Long Grove, IL 60047
phone: (847) 456-1297
email: bwilson@mcgintybros.com
www.mcgintybros.com

Natural Resource Management, Inc.

Doug Short
P.O. Box 702
Beecher, Illinois 60401
Phone: (708) 935-2100

Pizzo and Associates

Jack Pizzo
10729 Pine Road
Leland, Illinois 60531
Phone: (815) 495-2300
www.pizzo.info/

Tallgrass Restoration

Mike Fitzpatrick
2221 Hammond Drive
Schaumburg, IL 60173-3813
Phone: (847) 925-9830
www.tallgrassrestoration.com

Turning Leaf Restoration

David Hodge
1158 Pinetree Lane
Bartlett, IL 60103
Phone: (630) 540-7533

Witness Tree Native Landscapes

June Keibler/Mary Zaander
121 Ford Street
Geneva, Illinois 60134
Phone: (630) 262-1160

Brad Woodson

14401 Trinity Ct.
Woodstock, IL 60098
Phone: (815) 337-6040 (Home)
Phone: (815) 653-2297 (Work & MCCD)

WRD Environmental, Inc.

Chicago Center for Green Technology
Geoff Diegan
445 North Sacramento Blvd, Suite 201
Chicago, IL 60612
Phone: (773) 722.9870
Fax: (773) 722.9875
www.wdrenvironmental.com/index.html



Appendix E

Wetland and Natural Areas Consultant List

The following is a list of consultants that provide wetland and/or natural area consulting services in northeastern Illinois. This information is provided as a public service and does not constitute a recommendation or endorsement, nor does the absence of a firm from the list constitute a negative endorsement. While an effort has been made to provide a complete and accurate listing, omissions or other errors may occur and therefore, other available sources of information should be consulted.

This list was compiled by the U.S. Fish and Wildlife Service's Chicago, Illinois Field Office. Contact their office, using the information in Appendix A, for any updates or corrections to the list.

Applied Ecological Services, Inc.

Randy Vogel
120 West Main Street
West Dundee, IL 60118
Phone: (847) 844-9385
www.appliedeco.com

Christopher B. Burke Engineering, Ltd.

Jedd Anderson
9575 W. Higgins Road, Suite 600
Rosemont, IL 60018
Phone: (847) 823-0500
www.cbbel.com

Conservation Design Forum, Inc.

James Patchett/Ken Johnson
375 West First Street
Elmhurst, Illinois 60126
Phone: (630) 559-2000
www.cdfinc.com

Conservation Services, Inc.

Ken Fiske
9313 Bull Valley Road
Woodstock, IL 60098
Phone: (815) 338-7664

CTE Engineers, Inc.

Brian Smith
303 East Wacker Drive, Suite 600
Chicago, IL 60601-5276
Phone: (312) 938-0300
www.cte-eng.com

Cowhey Gudmundson Leder, Ltd.

Irma Terry
300 Park Boulevard, Suite 205
Itasca, IL 60143
Phone: (630) 250-9595
www.cgl-ltd.com

Earth Tech, Inc.

David J. Reynolds
10 S. Riverside Plaza
Suite 1900
Chicago, IL 60606
Phone: (312) 777-5500
www.earthtech.com

EnCAP, Inc.

Mark Southern/Carl Peterson
1709 Afton Road
Sycamore, IL 60178
Phone: (815) 899-1621
<http://www.encapinc.net>

EquiPoise, Inc.

J. Marshall Eames
2119 West Morse Avenue
Chicago, IL 60645
Phone: (773) 761-2431

Graef, Anhalt, Schloemer, & Associates, Inc.

Eric Parker
One Honey Creek Corporate Center
125 South 84th Street, Suite 401
Milwaukee, WI 53214-1470
Phone: (414) 259-1500
www.gasai.com

Hey & Associates, Inc.

Gary Schaefer/Vince Mosca
26575 West Commerce Dr., Suite 601
Volo, IL 60073
Phone: (847) 740-0888
www.heyassoc.com

Integrated Lakes Management, Inc.

Keith Gray
120 LeBaron St.
Waukegan, IL 60085
Phone: (847) 244-6662
Email: kgray@lakesmanagement.com
Website: www.lakesmanagement.com

JFNew

Andrew Blackburn
6605 Steger Road, Unit A
Monee, Illinois 60449-7019
Phone: (708) 534-3450
Fax: (708) 534-3480
www.jfnew.com

Joseph A. Schudt & Assoc.

Matt Anderson
19350 South Harlem Avenue
Frankfort, IL 60423
Phone: (708) 720-1000
www.jaseng.com

Lafayette Home Nursery, Inc.

Dave Lahr
RR1, Box 1A
LaFayette, IL 61449
Phone: (309) 995-3311

Living Waters Consultants, Inc.

Ted Gray
1 South Summit Avenue
Suite 304
Oakbrook Terrace, IL 60181
Phone: (630) 261-1133

Natural Areas Ecosystem Management, Inc.

Randolph J. Stowe
10015 Wright Road
Harvard, IL 60033
Phone: (815) 648-2252

Planning Resources, Inc.

Lan Richart/Juli Crane
402 West Liberty Drive
Wheaton, IL 60187
Phone: (630) 668-3788
www.planres.com

Raisanen & Associates, Inc.

Donald Raisanen
40 East Euclid Avenue
Arlington Heights, IL 60004
Phone: (847) 870-7762
www.raisanen.com

STS Consultants, Ltd.

Bill Weaver
750 Corporate Woods Pkwy.
Vernon Hills, IL 60061-3153
Phone: (847) 279-2500
www.stsconsultants.com

V3 Companies of Illinois, Ltd.

Thomas Slowinski
7325 Janes Avenue, Suite 100
Woodridge, IL 60517
Phone: (630) 724-9200
www.v3co.com

WRD Environmental, Inc.

Chicago Center for Green Technology
445 North Sacramento Blvd, Suite 201
Chicago, IL 60612
Phone: (773) 722.9870
Fax: (773) 722.9875
www.wrdenvironmental.com

Appendix F

Illustration Credits

In order to maintain consistency, species names (scientific and common) in this appendix have been altered to match those used in this guide and may differ from the names used in the publications referenced below. Page numbers listed below correspond with the references listed.

1. The following are illustrations used from *The Illustrated Flora of Illinois Series* published by SIU Press. These illustrations are being used with permission from SIU Press. This permission is not transferable, therefore, the illustrations cannot be reproduced without formally requesting permission from SIU Press.

The Illustrated Flora of Illinois: Flowering Plants Series: Rush to Rushes by Mohlenbrock R.H. (C) 1970 by Southern Illinois University Press:

Acorus calamus (Sweet Flag) page 126
Sagittaria latifolia (Common Arrow leaf) page 46
Sparganium eurycarpum (Common Burreed) page 164
Tradescantia ohiensis (Spiderwort) page 176

The Illustrated Flora of Illinois: Flowering Plants Series: Smartweeds to Hazelnuts by Mohlenbrock R.H. and Thompson P. (C) 1973 by the Board of Trustees, Southern Illinois University:

Quercus palustris (Pin Oak) page 149,150

The Illustrated Flora of Illinois: Flowering Plants Series: Grasses: Panicum to Danthonia by Mohlenbrock R.H. (C) 1973 by Southern Illinois University Press:

Andropogon gerardii (Big Bluestem) page 198
Bouteloua curtipendula (Sideoats Grama) page 307
Panicum virgatum (Switch Grass) page 66
Schizacharium scoparium (Little Bluestem) page 207
Sorghastrum nutans (Indian Grass) page 194

The Illustrated Flora of Illinois: Flowering Plants Series: Lilies to Orchids by Mohlenbrock R.H. (C) 1970 by Southern Illinois University Press:

Iris shrevei (called *Iris virginiana* in this Guide) (Blue Flag Iris) page 160

2. The following are illustrations provided by Ellen Starr of the USDA Natural Resources Conservation Service.

Aster lanceolatus (Panicled Aster)
Coreopsis tripteris (Tall Coreopsis)
Eupatorium maculatum (Spotted Joe Pye Weed)
Vernonia fasciculata (Common Iron Weed)

3. The following are illustrations used from *Prairie Plants of Illinois* by Voight J.W. and Mohlenbrock R.H., Printed by the authority of the State of Illinois, issued by the Department of Conservation, Division of Forest Resources and Natural Heritage.

Aster laevis (Smooth Blue Aster) page 65
Monarda fistulosa (Wild Bergamot) page 169
Petalostemum purpureum (Purple Prairie Clover) page 183

Rhynanthemum virginianum (Common Mountain Mint) ... page 197
Ratibida pinnata (Yellow Cone Flower) page 199
Rudbeckia hirta (Black-Eyed Susan) page 203
Silphium laciniatum (Compass Plant) page 215
Silphium terebinthinaceum (Prairie Dock) page 219
Solidago rigida (Stiff Goldenrod) page 227

4. The following are illustrations used from *Midwestern Wetland Flora: Field Office Guide to Plant Species* prepared by Biotic Consultants Inc. of Carbondale, Illinois for the USDA-Soil Conservation Service.

Alisma subcordatum (Common Water Plantain)
Aster novae-angliae (New England Aster)
Bidens cernua (Nodding Beggarsticks)
Bidens frondosa (Common Beggarsticks)
Calamagrostis canadensis (Blue Joint Grass)
Carex comosa (Bristly Sedge)
Carex cristatella (Crested Oval Sedge)
Carex granularis (Pale Sedge)
Carex lanuginosa (Woolly Sedge)
Carex stipata (Awn-fruited Sedge)
Carex vulpinoidea (Fox Sedge)
Celtis occidentalis (Hackberry)
Cephalanthus occidentalis (Common Buttonbush)
Cornus racemosa (Gray Dogwood)
Cornus sericea (Red Osier Dogwood)
Cyperus esculentus (Field Nut Sedge)
Eleocharis obtusa (Blunt Spike Rush)
Eleocharis smallii (Creeping Spike Rush)
Elymus canadensis (Nodding Wild Rye)
Elymus virginicus (Virginia Wild Rye)
Eupatorium perfoliatum (Common Boneset)
Fraxinus pennsylvanica (Green Ash)
Glyceria striata (Fowl Manna Grass)
Helenium autumnale (Common Sneezeweed)
Helianthus grosseserratus (Sawtooth Sunflower)
Juncus effusus (Common Rush)
Juncus torreyi (Torrey's Rush)
Leersia oryzoides (Rice Cut Grass)
Polygonum amphibium (Water Smartweed)
Quercus bicolor (Swamp White Oak)
Quercus macrocarpa (Bur Oak)
Salix amygdaloides (Peachleaf Willow)
Salix nigra (Black Willow)
Scirpus acutus (Hardstem Bulrush)
Scirpus americanus (Chairmaker's Rush)
Scirpus fluviatilis (River Bulrush)
Scirpus tabernaemontani (Soft-stem Bulrush)
Solidago gigantea (Late Goldenrod)
Spartina pectinata (Prairie Cordgrass)
Verbena hastata (Blue Vervain)
Viburnum dentatum lucidum (Arrow Wood Viburnum)
Viburnum lentago (Nannyberry)