



Michael J. Bullerman
Prairie Plains Resource Institute
1307 L Street
Aurora, NE 68818

Nebraska Community Foundation
PO Box 83107
Lincoln, NE 68501-3107
TIN# 47-0769903

PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM
Agreement between the Nebraska Community Foundation, Platte River Recovery Implementation Program, and Prairie Plains Resource Institute

Speidell Native Seeding Project

1. Parties. This Agreement is made and entered into by and between the Nebraska Community Foundation (“Foundation”) of Lincoln, Nebraska, representing all signatories to the Platte River Recovery Implementation Program (“Program”), and Prairie Plains Resource Institute (“Contractor”), a non-profit organization. The following persons are authorized to represent the parties through execution of this Agreement: Diane Wilson of the Foundation, Dr. Jerry Kenny of the Program, and Michael Bullerman.

2. Purpose of Agreement and Authority. The purpose of this Agreement is to allow the Foundation, acting as the fiscal agent for the Governance Committee (GC) of the Program, to retain the services of the Contractor to conduct a native seed planting. The Contractor’s quotation is attached as Exhibit B.

TERMS AND CONDITIONS.

3. Term of Agreement. This Agreement is effective when all parties execute it. The term of this Agreement is from the date of signing through May 15, 2017. The services to be performed under this Agreement will commence upon signing of this Agreement.

4. Payment.

A. Goods and Services. The Program agrees to pay Contractor **\$32,920** for seedbed preparation and high-diversity seeding as described in Exhibit B.

The amounts for each task are estimates only but are not to be exceeded unless authorized in writing by the Program. The Agreement total amount is controlling and is a ceiling price that Contractor exceeds at its own risk. Payment shall be made directly to Contractor.



B. Billing Procedures. Contractor shall submit invoices to the Program’s Executive Director (ED). Upon receiving an invoice, the ED will review and approve the invoice and advise the Foundation of approval. The Foundation will make payment of these funds directly to Contractor within 30 days of receiving notice of approval. Payments are due within 60 days after the billing date.

Billing Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director
Platte River Recovery Implementation Program
Headwaters Corporation
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Email: kennyj@headwaterscorp.com

C. Withholding of Payment. If a work element has not been received by the Program by the dates established in this Agreement, the Program may withhold all payments beginning with the month following that date until such deficiency has been corrected.

D. Final Completion and Payment. Final payment shall be made upon receipt of the final invoice and, if applicable, execution of the final amendment to the Agreement documenting the final contract amount.

5. Responsibilities of Contractor.

A. Scope of Services. The Contractor shall perform the specific services required under this Agreement as noted in Exhibit A in a satisfactory and proper manner.

B. Personnel. All services required hereunder will be performed by Contractor and Contractor shall be fully qualified and authorized, licensed, or permitted under state law to perform such services, if state law requires such authorization, license, or permit.

C. Subcontracts. Contractor may not engage any subcontractors, outside associates, or contractors for any part of the work to be performed pursuant to this Agreement without prior written authorization.

D. Requests from the Program. The Contractor shall be responsible and responsive to the Program and the ED Office in their requests and requirements.

E. Inspection and Acceptance. All goods and services provided by the Contractor shall be subject to rigorous review by the Program and the ED Office prior to acceptance.

6. Responsibilities of the Program.

A. Designated Representative. The Executive Director of the Program shall act as the Program’s administrative representative with respect to the Contractor’s service to be performed under this Agreement and shall have complete authority to transmit instructions, receive information, and interpret and define the Program’s policies and decisions with respect to services covered by this Agreement.



7. **Special Provisions.**

A. No Finder's Fees. No finder's fee, employment agency fee, or other such fee related to the procurement of this Agreement shall be paid by either party.

B. Publicity. Any publicity or media contact associated with the Contractor's services and the result of those services provided under this Agreement shall be the sole responsibility of the Program. Media requests of the Contractor should be directed to the Director of Operations, Administration, and Human Dimensions in the EDO.

C. Monitor Activities. The Program shall have the right to monitor all Contract-related activities of the Contractor. This shall include, but not be limited to, the right to make site inspections at any time, to bring experts and Contractors on site to examine or evaluate completed work or work in progress, and to observe all Contractor personnel in every phase of performance of Contract-related work.

D. Kickbacks. The Contractor certifies and warrants that no gratuities, kickbacks or contingency fees were paid in connection with this Contract, nor were any fees, commissions, gifts, or other considerations made contingent upon the award of this Contract. If the Contractor breaches or violates this warranty, the Program may, at its discretion, terminate this Contract without liability to the Program, or deduct from the Contract price or consideration, or otherwise recover, the full amount of any commission, percentage, brokerage, or contingency fee.

E. Debarment and Suspension. Contractor certifies by signing this Contract that neither Contractor nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any federal department or agency from participation in the transaction covered by this Contract.

F. Anti-Lobbying. Contractor makes the representations set forth on the Certification Regarding Lobbying, which is attached as Exhibit A and incorporated by reference as part of this Contract. Contractor shall execute such Certification at the time of executing this Agreement.

G. Office Space, Equipment, and Supplies. The Contractor will supply its own office space, equipment, and supplies.

8. **General Provisions.**

A. Amendments. Any changes, modifications, revisions, or amendments to this Agreement which are mutually agreed upon by the parties to this Agreement shall be incorporated by written instrument, executed and signed by all Parties to this Agreement.

B. Applicable Law/Venue. The construction, interpretation and enforcement of this Agreement shall be governed by the laws of the State of Nebraska. The Courts of the State of Nebraska shall have jurisdiction over this Agreement and the parties.

C. Assignment/Agreement Not Used as Collateral. Neither party shall assign or otherwise transfer any of the rights or delegate any of the duties set forth in this Agreement without the prior written consent of the other party. The Contractor shall not use this Agreement, or any portion thereof, for collateral for any financial obligation, without the prior written permission of the Program.



D. Audit/Access to Records. The Program, the Foundation, and any of their representatives shall have access to any books, documents, papers, and records of the Contractor which are pertinent to this Agreement. The Contractor shall, immediately upon receiving written instruction from the Program or Foundation, provide to the Foundation or any governmental entity, independent auditor, accountant, or accounting firm, all books, documents, papers and records of the Contractor which are pertinent to this Agreement. The Contractor shall cooperate fully with the Foundation or any such governmental entity, independent auditor, accountant, or accounting firm, during the entire course of any audit authorized by or required of the Program.

E. Availability of Funds. Each payment obligation of the Program is conditioned upon the availability of funds and continuation of the Platte River Recovery Implementation Program. If funds are not allocated and available for the continuance of the services performed by the Contractor, the Agreement and/or applicable task order may be terminated by the Program at the end of the period for which the funds are available. The Program shall notify the Contractor at the earliest possible time of the services which will or may be affected by a shortage of funds. No penalty shall accrue to the Program in the event this provision is exercised, and the Program shall not be obligated or liable for any future payments due or for any damages as a result of termination under this section. This provision shall not be construed to permit the Program to terminate this Agreement to acquire similar services from another party.

F. Award of Related Contracts. The Program may undertake or award supplemental or successor contracts for work related to this Contract. The Contractor shall cooperate fully with other contractors and the Program in all such cases.

G. Compliance with Law. The Contractor shall keep informed of and comply with all applicable federal, state and local laws and regulations in the performance of this Contract.

H. Conflicts of Interest

(i) Contractor shall not engage in providing consultation to or representation of clients, agencies or firms which may constitute a conflict of interest giving rise to a disadvantage to the Program or a disclosure which would adversely affect the interests of the Program. Contractor shall notify the Program of any potential or actual conflicts of interest arising during the course of the Contractor's performance under this Agreement. This Agreement may be terminated in the event a conflict of interest arises. Termination of the Agreement will be subject to a mutual settlement of accounts. In the event the Agreement is terminated under this provision, the Contractor shall take steps to ensure that the file, evidence, evaluation and data are provided to the Program or its designee. This does not prohibit or affect the Contractor's ability to engage in consultations, evaluations or representation under agreement with other agencies, firms, facilities, or attorneys so long as no conflict exists.

(ii) A conflict of interest warranting termination of the Agreement includes, but is not necessarily limited to, representing a client in an adversarial proceeding against the Platte River Recovery Implementation Program, its signatories, boards, commissions, or the Foundation, or initiating suits in equity including injunctions, declaratory judgments, writs of prohibition or *quo warranto*.



- 182 **I. Entirety of Agreement.** This Agreement, consisting of *thirty-five (35)* pages, represents the entire and
183 integrated Agreement between the Parties and supersedes all prior negotiations, representations, and
184 agreements, whether written or oral.
185
- 186 **J. Force Majeure.** Neither party shall be liable for failure to perform under this Agreement if such failure
187 to perform arises out of causes beyond the control and without the fault or negligence of the
188 nonperforming party. Such causes may include, but are not limited to, acts of God or the public enemy,
189 fires, floods, epidemics, quarantine restrictions, freight embargoes, and unusually severe weather. This
190 provision shall become effective only if the party failing to perform immediately notifies the other party
191 of the extent and nature of the problem, limits delay in performance to that required by the event, and
192 takes all reasonable steps to minimize delays. This provision shall not be effective unless the failure to
193 perform is beyond the control and without the fault or negligence of the nonperforming party.
194
- 195 **K. Indemnification.** The Contractor shall indemnify and hold harmless the Foundation, the Program, the
196 ED Office, and their officers, agents, employees, successors and assignees from any and all claims,
197 lawsuits, losses and liability arising out of Contractor's failure to perform any of Contractor's duties
198 and obligations hereunder or in connection with the negligent performance of Contractor's duties or
199 obligations, including but not limited to any claims, lawsuits, losses or liability arising out of
200 Contractor's malpractice. The obligations of this paragraph shall survive termination of this Contract.
201
- 202 **L. Independent Contractor.** The Contractor shall function as an independent contractor for the purposes
203 of this Contract, and shall not be considered an employee of the Program, Foundation, or ED Office for
204 any purpose. The Contractor shall assume sole responsibility for any debts or liabilities that may be
205 incurred by the Contractor in fulfilling the terms of this Contract, and shall be solely responsible for
206 the payment of all federal, state and local taxes which may accrue because of this Contract. Nothing in
207 this Contract shall be interpreted as authorizing the Contractor or its agents and/or employees to act as
208 an agent or representative for or on behalf of the Foundation or the Program, or to incur any obligation
209 of any kind on the behalf of the Foundation or the Program. The Contractor agrees that no
210 health/hospitalization benefits, workers' compensation and/or similar benefits available to Foundation,
211 Program, or ED Office employees will inure to the benefit of the Contractor or the Contractor's agents
212 and/or employees as a result of this Contract.
213
- 214 **M. Notices.** All notices arising out of, or from, the provisions of this Agreement shall be in writing and
215 given to the parties at the address provided under this Agreement, either by regular mail, e-mail, or
216 delivery in person. Notice is effective upon delivery.
217
- 218 **N. Notice of Proposed Sale or Transfer of the Contractor.** The Contractor shall provide the Program
219 with the earliest possible advance notice of any proposed sale or transfer or any proposed merger or
220 consolidation of the assets of the Contractor. Such notice shall be provided in accordance with the
221 notice provision of this Agreement.
222
- 223 **O. Ownership of Documents/Work Product/Materials.** All documents, reports, records, field notes,
224 data, samples, specimens, and materials of any kind resulting from performance of this Agreement are
225 at all times the property of the Program.
226
- 227 **P. Patent or Copyright Protection.** The Contractor recognizes that certain proprietary matters or
228 techniques may be subject to patent, trademark, copyright, license or other similar restrictions, and
229 pledges that no work performed by the Contractor or its contractors will violate any such restriction.
230



- 231 **Q. Taxes.** The Contractor shall pay all taxes and other such amounts required by federal, state and local
232 law, including but not limited to federal and state income taxes, social security taxes, workers'
233 compensation, unemployment insurance, and sales taxes.
234
- 235 **R. Termination of Agreement.** This Agreement may be terminated, without cause by Program upon
236 fifteen (15) days written notice. This Agreement may be terminated immediately for cause if Contractor
237 fails to perform in accordance with the terms of this Agreement. Contractor shall likewise have the
238 right to unilaterally terminate the agreement for cause. In the event of termination, Program shall pay
239 Contractor for all reasonable work performed up to the effective date of the termination.
240
- 241 **S. Third Party Beneficiary Rights.** The parties do not intend to create in any other individual or entity
242 the status of third party beneficiary, and this Agreement shall not be construed so as to create such
243 status. The rights, duties and obligations contained in this Agreement shall operate only between the
244 parties to this Agreement, and shall inure solely to the benefit of the parties to this Agreement. The
245 provisions of this Agreement are intended only to assist the parties in determining and performing their
246 obligations under this Agreement.
247
- 248 **T. Time is of the Essence.** Time is of the essence in all provisions of the Contract.
249
- 250 **U. Titles Not Controlling.** Titles of paragraphs are for reference only, and shall not be used to construe
251 the language in this Contract.
252
- 253 **V. Waiver.** The waiver of any breach of any term or condition in this Contract shall not be deemed a
254 waiver of any prior or subsequent breach.



9. Contacts.

Administrative Point of Contact (Foundation):

Diane M. Wilson
Manager of Public/Private Partnerships
Nebraska Community Foundation
PO Box 83107
Lincoln, Nebraska 68501-3107
Phone: (402) 323-7330
Email: dwilson@nebcommfound.org

Administrative Point of Contact (Program):

Dr. Jerry F. Kenny, Executive Director
Platte River Recovery Implementation Program
Headwaters Corporation
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Email: kennyj@headwaterscorp.com

Media Point of Contact (Program):

Dr. Bridget Barron, Director of Operations, Administration, and Human Dimensions
Platte River Recovery Implementation Program
Headwaters Corporation
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Email: barronb@headwaterscorp.com

Technical Point of Contact (Program):

Tim Tunnell, Senior Land Manager
Platte River Recovery Implementation Program
Headwaters Corporation
4111 4th Avenue, Suite 6
Kearney, Nebraska 68845
Phone: (308) 237-5728
Email: smithc@headwaterscorp.com

Administrative and Technical Point of Contact (Contractor):

Michael J. Bullerman
Prairie Plains Resource Institute
1307 L Street
Aurora, NE 68818
Phone: (302) 694-5535
Email: prc_ppri@hamilton.net



10. Signatures. By signing this Agreement, the undersigned certify that they have read and understood it, that they agree to be bound by the terms of this Agreement, that they have the authority to sign it, and that their respective Party agrees to be bound by the terms of the Agreement.

NEBRASKA COMMUNITY FOUNDATION

Diane M. Wilson
Manager of Public/Private Partnerships
Nebraska Community Foundation

Date

CONTRACTOR

Michael J. Bullerman
Prairie Plains Resource Institute

Date



EXHIBIT A
Certification Regarding Lobbying

The undersigned certifies, on behalf of Contractor, that to the best of his or her knowledge and belief:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of Contractor, to any person for influencing or attempting to influence an officer or employee of any federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, or the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. No registrant under the Lobbying Disclosure Act of 1995 has made any lobbying contacts on behalf of the Contractor with respect to the federal grant or cooperative agreement under which the Contractor is receiving monies.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who makes an expenditure prohibited by Section 1 above or who fails to file or amend the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

CONTRACTOR

By: Michael J. Bullerman

Michael J. Bullerman

Date



EXHIBIT B
P16-023 Speidell Native Seeding

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PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM REQUEST FOR QUOTATION

PROJECT: (P16-023) Speidell Native Seeding Project-**REVISED**
LOCATION: PRRIP Property 2015001
NEAR: Kearney, Nebraska
REQUEST DATE: December 14, 2016
SITE SHOWING: December 21, 2016 – 2:00 pm central time
CLOSING DATE: January 11, 2017 – 5:00 pm central time
POINT OF CONTACT: Tim R. Tunnell
 Headwaters Corporation
 4111 4th Ave, Suite 6
 Kearney, NE 68845
tunnellt@headwaterscorp.com

The undersigned acknowledges receipt of the following plans and specifications:

- # 1 (✓) Cover Sheet
- # 2 (✓) Site Layout Map
- # 3 (✓) East Seeding Area Map
- # 4 (✓) West Seeding Area Map
- # 5 (✓) Mesic Site Species List
- # 6 (✓) Sandy Upland Site Species List
- # 7 (✓) Wetland Site Species List

Please circle method of planting: Drilling; **Broadcast**; Other; _____

Please circle seed mix type: **Local-ecotype**; Commercial;



SEED MIX GUIDELINES:

Mesic mix: 4.45 PLS lbs. Grass /Acre
0.86 PLS lbs. Forbs/Acre
 5.31 PLS lbs. Total/ Acre

Sandy mix: 3.61 PLS lbs. Grass/Acre
0.92 PLS lbs. Forbs/Acre
 4.53 PLS lbs. Total/Acre

Wetland mix: 2.91 PLS lbs. Grass/Acre
0.19 PLS lbs. Forbs/Acre
 3.095 PLS lbs. Total/Acre

Please provide a short narrative on your intended approach to planting the areas:

The site preparation work (discing) will be subcontracted.

Seed will be mixed according to the specifications listed above. The mixes will contain more species than specified (see attached species lists).

Seed test information will be provided.

Shapefiles will be uploaded to a GPS unit to ensure proper the proper seed mix and amount is sown on each seeding area. Seeding rate will be checked using the GPS unit to ensure specifications are met.

Seed will be broadcast using an EZEE-Flow drop spreader fitted with a custom spring-tooth drag (to increase seed-to-soil contact), pulled by an ATV.

GPS tracklogs will be recorded during planting to calculate actual acres planted, and invoicing will be based on those figures.

GPS tracklogs and maps will be provided to PRRIP upon completion of seeding work.

Seeding work should take approximately 2 to 3 days.



The Contractor is required to submit quotes for all work Items below.

Item No.	Description	Unit	Estimated Quantity	Quote Unit Price	Quote Price
001	Mobilization	LS	1	\$ _____ N/A _____	\$ 1,000.00
001	Sandy Upland Seed Mix	AC	12	\$ 450.00	\$ 5,400.00
002	Wetland Seed Mix	AC	5	\$ 450.00	\$ 2,250.00
003	Central Mesic Seed Mix-East	AC	16	\$ 450.00	\$ 7,200.00
004	Seedbed Preparation- East	AC	33	\$ 60.00	\$ 1,980.00
005	Planting (Drilling or broadcast)- East	AC	33	\$ 50.00	\$ 1,650.00
006	Central Mesic Seed Mix-West	AC	24	\$ 450.00	\$ 10,800.00
007	Seedbed Preparation- West	AC	24	\$ 60.00	\$ 1,440.00
008	Planting (Drilling or broadcast)-West	AC	24	\$ 50.00	\$ 1,200.00

TOTAL QUOTE PRICE _____

Thirty-two thousand nine-hundred twenty _____ dollars (\$ 32,920.00)

WORK COMPLETION DATE: No later than May 15th, 2017

Submitted by: Prairie Plains Resource Institute
(Company)

Michael J. Bullerman
(Individual – Print)

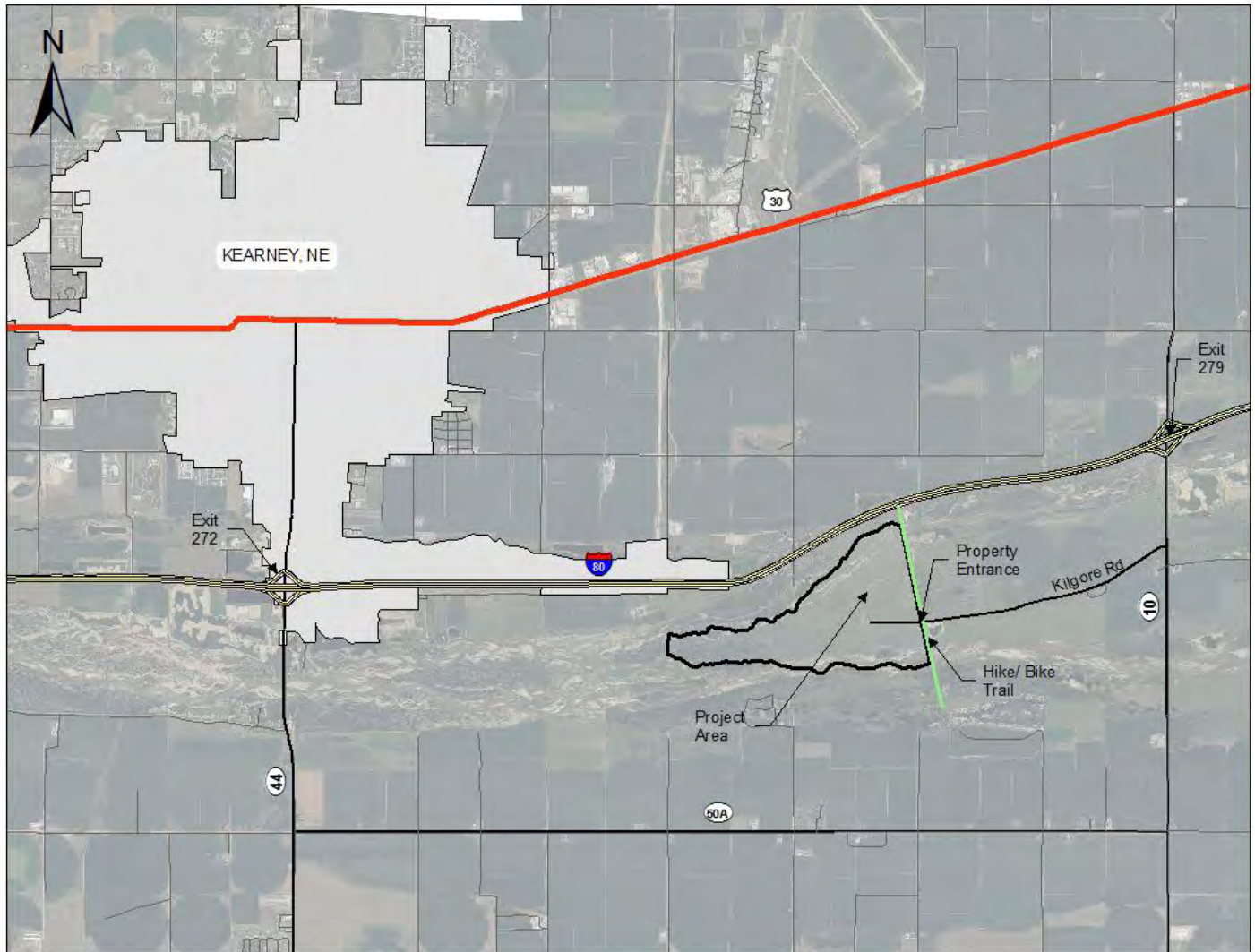
January 9th, 2017
(Sign/Date)

Directions to Pre-Bid Meeting

Date and Time: Wednesday, December 21, 2016 at 2:00 PM CT

Location: Ft Kearny Complex – Speidell Tract

Map: Access property from Kilgore Rd west of Highway 10.



From I-80 Exit 279 (Minden Exit):

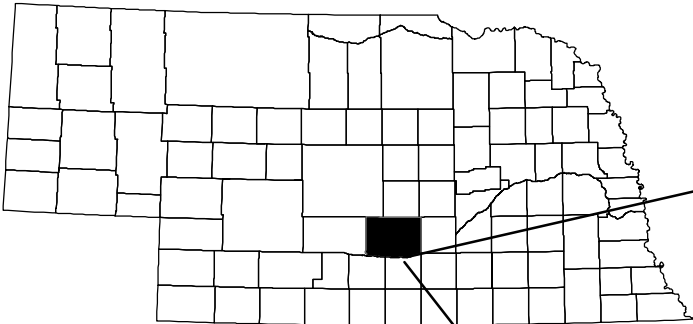
Travel south on Highway 10, turn west onto Kilgore Rd, travel 2.0 miles to property entrance at cattle guard west of Hike/Bike Trail. Project area is 0.25 miles NW of property entrance.

ITEM	DESCRIPTION	UNITS	PRELIM QUANTS	FINAL QUANTS
001	MOBILIZATION	LS	1	
002	EAST SEEDING AREAS	AC	33	
003	WEST SEEDING AREA	AC	24	

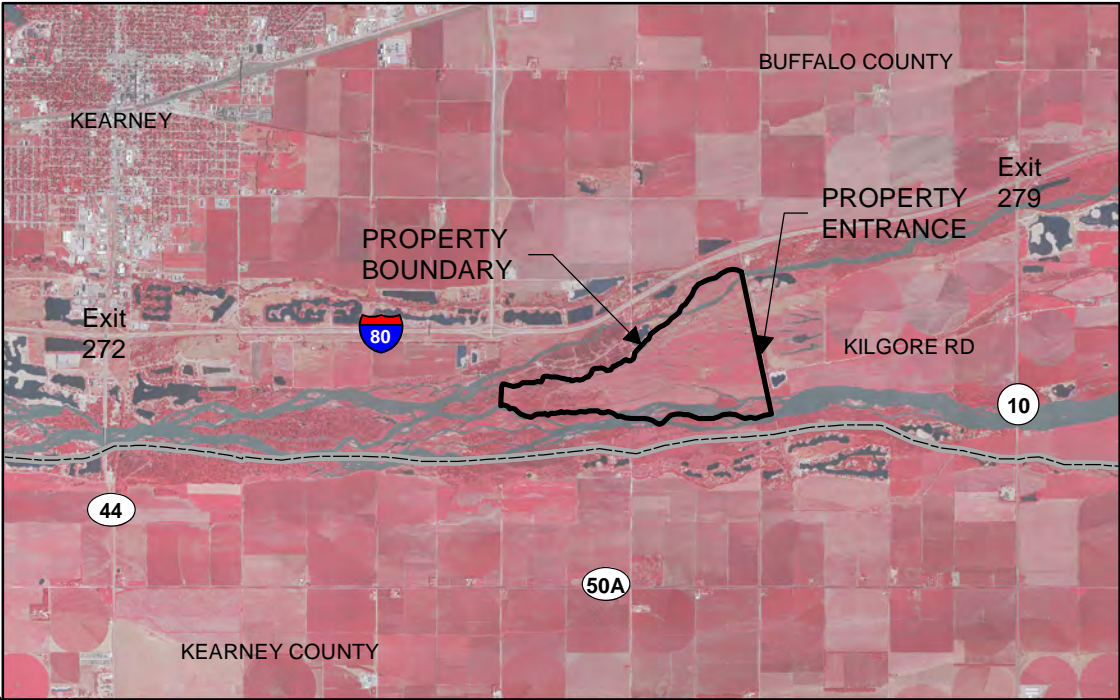
PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM

SPEIDELL
NATIVE SEEDING
IN BUFFALO COUNTY, NE


- INDEX
- 1 COVER SHEET
 - 2 SITE LAYOUT
 - 3 EAST SEEDING AREAS
 - 4 WEST SEEDING AREA



PROJECT
LOCATION



CAUTION
The Platte River Recovery Implementation Program will not be responsible for, or liable for, unauthorized changes to, or uses of these plans. All changes to the plans must be writing and must be approved by the Program.

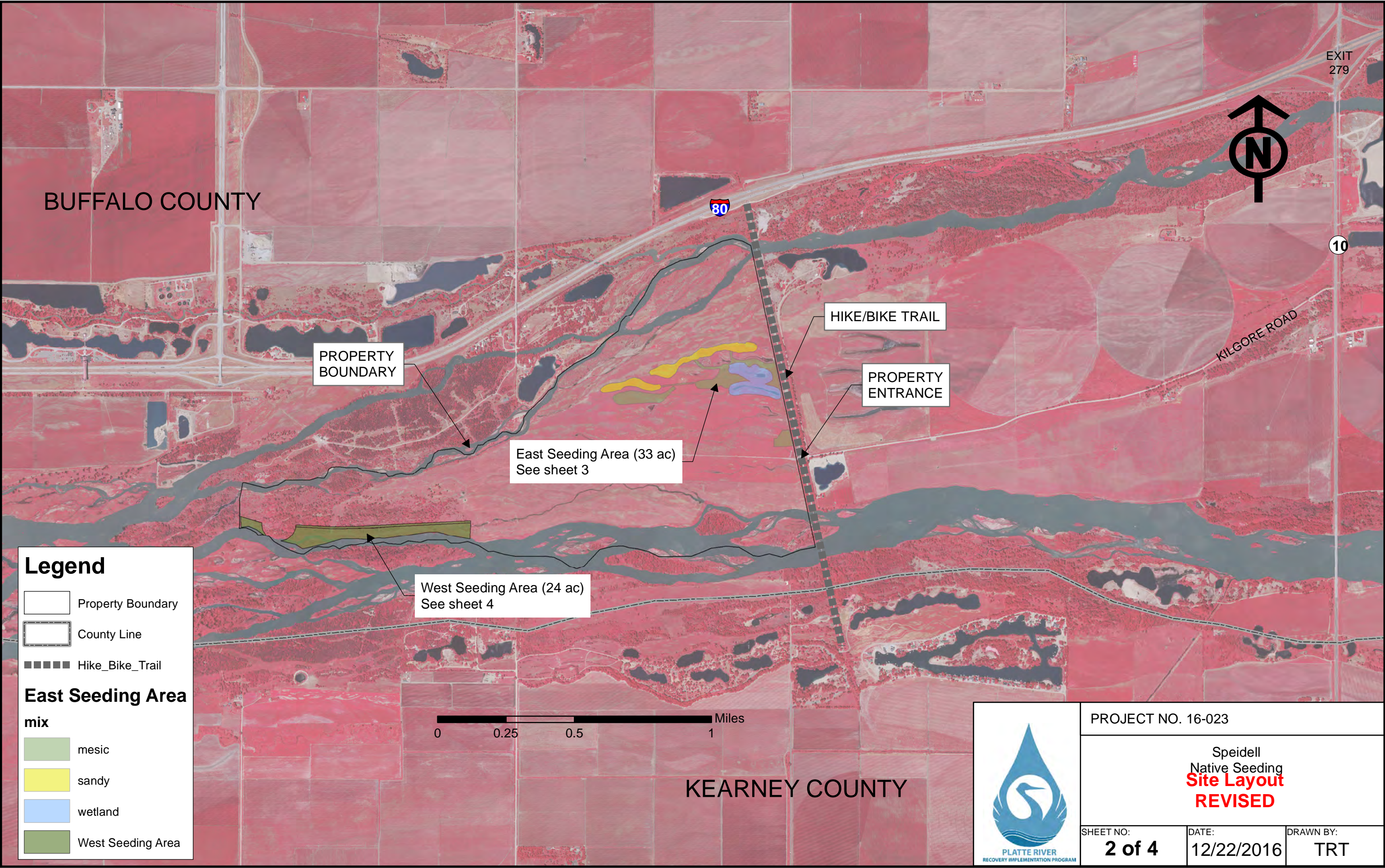



PLATTE RIVER
RECOVERY IMPLEMENTATION PROGRAM

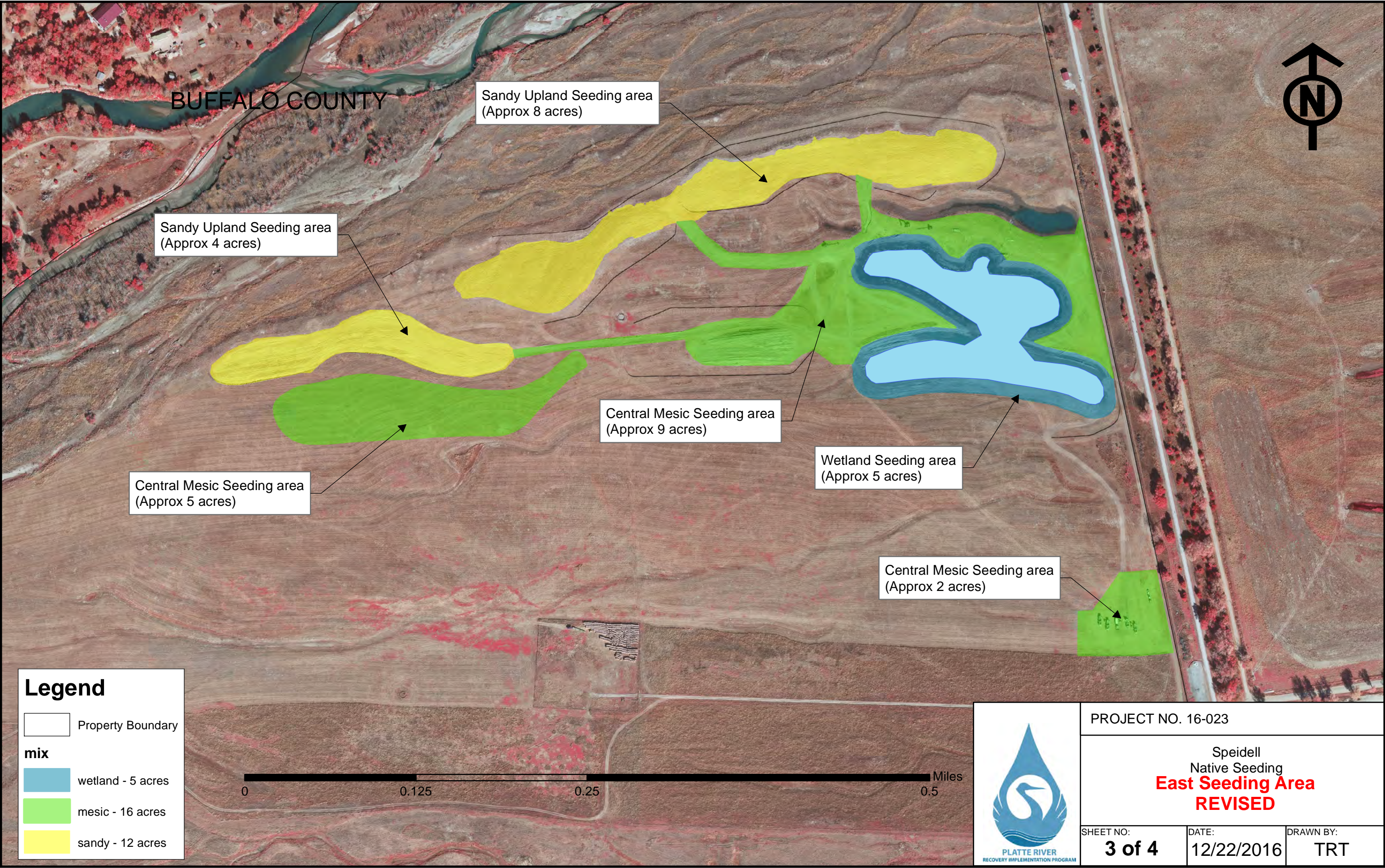
PROJECT NO. 16-023

Speidell
Native Seeding
COVER SHEET
REVISED

SHEET NO: 1 of 4	DATE: 12/22/2016	DRAWN BY: TRT
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 PLATTE RIVER RECOVERY IMPLEMENTATION PROGRAM	PROJECT NO. 16-023		
	Speidell Native Seeding Site Layout REVISED		
	SHEET NO: 2 of 4	DATE: 12/22/2016	DRAWN BY: TRT



BUFFALO COUNTY

Sandy Upland Seeding area
(Approx 8 acres)

Sandy Upland Seeding area
(Approx 4 acres)

Central Mesic Seeding area
(Approx 9 acres)

Central Mesic Seeding area
(Approx 5 acres)

Wetland Seeding area
(Approx 5 acres)

Central Mesic Seeding area
(Approx 2 acres)

Legend

Property Boundary

mix

wetland - 5 acres

mesic - 16 acres

sandy - 12 acres

0 0.125 0.25 0.5 Miles



PROJECT NO. 16-023

Speidell
Native Seeding
East Seeding Area
REVISED

SHEET NO:
3 of 4

DATE:
12/22/2016

DRAWN BY:
TRT


BUFFALO COUNTY




Central Mesic Seeding area
(Approx 24 acres)

0 0.125 0.25 0.5 Miles

Legend

 Property Boundary

 West Seeding Area



PROJECT NO. 16-023		
Speidell Native Seeding		
West Seeding Area		
SHEET NO: 4 of 4	DATE: 12/13/2016	DRAWN BY: TRT

Mesic Site Species List

Mesic Site (31 species)

GRASSES

Big Bluestem	<i>Andropogon gerardi</i>
Side-oats Grama	<i>Bouteloua curtipendula</i>
Canada Wildrye	<i>Elymus canadensis</i>
Slender Wheatgrass	<i>Elymus trachycaulus</i> (<i>Agropyron caninum</i>)
Switchgrass	<i>Panicum virgatum</i>
Indiangrass	<i>Sorghastrum avenaceum</i>
Prairie Wedgegrass	<i>Sphenopholis obtusata</i>
Prairie Dropseed	<i>Sporobolus heterolepis</i>
Little Bluestem	<i>Schizachrium scoparium</i>

SEDGES

Fescue Sedge	<i>Carex brevior</i>
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RUSHES

Inland Rush	<i>Juncus interior</i>
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FORBS

Yarrow	<i>Achillea millefolium</i>
Canada Milkvetch	<i>Astragalus canadensis</i>
Plains Yellow-primrose	<i>Calylophus serrulatus</i>
White Prairie Clover	<i>Dalea candidum</i>
Purple Prairie Clover	<i>Dalea purpurea</i>
Illinois Bundleflower	<i>Desmanthus illinoisensis</i>
Tall Boneset	<i>Eupatorium altissimum</i>
Wild Licorice	<i>Glycyrrhiza lepidota</i>
Maximillian Sunflower	<i>Helianthus maximilliani</i>
Stiff sunflower	<i>Helianthus pauciflorus</i> (<i>H. rigidus</i>)
Roundheaded bushclover	<i>Lespedeza capitata</i>
Horse Mint	<i>Monarda fistulosa</i>
Common Evening Primrose	<i>Oenothera villosa</i>
Upright Prairie Coneflower	<i>Ratibida columnifera</i>
Prairie Wild Rose	<i>Rosa arkansana</i>
Black-eyed Susan	<i>Rudbeckia hirta</i>
Prairie ragwort	<i>Senecio plattensis</i>
Entire-leaf Rosinweed	<i>Silphium integrifolium</i>
Rigid Goldenrod	<i>Solidago rigidus</i>
Heath Aster	<i>Symphotrichum ericoides</i> (<i>Aster ericoides</i>)
Long-bracted Spiderwort	<i>Tradescantia bracteata</i>

Mesic Site Species List

Additional Grass Species:

Porcupine grass	<i>Hesperostipa spartea</i> (<i>Stipa</i> s.)
Junegrass	<i>Koeleria macrantha</i> (K. pyramidata)
Scribner's Spring Panicum	<i>Panicum oligosanthos</i>
Tall Dropseed	<i>Sporobolus compositus</i> (<i>S. asper</i>)

Additional Sedge Species:

Bicknell's Sedge	<i>Carex bicknellii</i>
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Additional Forb Species:

Wild Garlic	<i>Allium canadense</i>
Leadplant	<i>Amorpha canescens</i>
Meadow Anemone	<i>Anemone canadensis</i>
Candle Anemone	<i>Anemone cylindrica</i>
Field Pussytoes	<i>Antennaria neglecta</i>
Hemp Dogbane	<i>Apocynum cannabinum</i>
White Sage	<i>Artemisia ludoviciana</i>
Narrowleaf Milkweed	<i>Asclepias stenophylla</i>
Butterfly Weed	<i>Asclepias tuberosa</i> ssp. <i>Interior</i>
Whorled Milkweed	<i>Asclepias verticillata</i>
Short Green Milkweed	<i>Asclepias viridiflora</i>
Spider milkweed	<i>Asclepias viridis</i>
Ground-plum	<i>Astragalus crassicaupus</i>
Plains Wild Indigo	<i>Baptisia bracteata</i>
False Boneset	<i>Brickellia eupatorioides</i>
Pale Poppy Mallow	<i>Callirhoe alcaeoides</i>
Redroot New Jersey Tea	<i>Ceanothus herbaceus</i>
Partridge Pea	<i>Chamaecrista fasciculata</i> (<i>Cassia chamaecrista</i>)
Bastard Toadflx	<i>Comandra umbellata</i>
Prairie Larkspur	<i>Delphinium carolinianum</i> (<i>D. virescens</i>)
Canada Tick-clover	<i>Desmodium canadense</i>
Purple Coneflower	<i>Echinacea angustifolia</i>
Flowering Spurge	<i>Euphorbia corollata</i>
Small-flowered guara	<i>Gaura mollis</i> (<i>G. parviflora</i>)
Downy Gentian	<i>Gentia puberulenta</i>
False Sunflower	<i>Heliopsis helianthoides</i>
Longbeard Hawkweed	<i>Hieracium longipilum</i>
Rough gayfeather	<i>Liatris aspera</i>
Dotted gayfeather	<i>Liatris punctata</i>
Grooved Yellow Flax	<i>Linum sulcatum</i>
Prairie Trefoil	<i>Lotus unifoliolatus</i> (<i>L. purshianus</i>)
Wild Four-o'clock	<i>Mirabilis nyctaginea</i>
False Gromwell	<i>Onosmodium molle</i>
Violet Wood Sorrel	<i>Oxalis violacea</i>
Silver-leaf Scurf Pea	<i>Pedimelum argophyllum</i> (<i>Psoralea</i> a.)
Prairie Turnip	<i>Pedimelum esculentum</i> (<i>Psoralea</i> e.)
Shell-leaf Penstemon	<i>Penstemon grandiflorus</i>
Prairie Phlox	<i>Phlox pilosa</i> ssp. <i>Fulgida</i>
Praire Cinquefoil	<i>Potentilla arguta</i>
Slender-flower Scurfpea	<i>Psoralidium tenuiflorum</i> (<i>Psoralea tenuiflora</i>)
Compass plant	<i>Silphium laciniatum</i>
Prairie Blue-eyed grass	<i>Sisyrinchium campestre</i>

Mesic Site Species List

Canada Goldenrod	<i>Solidago canadensis</i>
Late Goldenrod	<i>Solidago gigantea</i>
Missouri Goldenroad	<i>Solidago missouriensis</i>
Smooth Blue Aster	<i>Symphyotrichum laeve</i> (<i>Aster laevis</i>)
American Germander	<i>Teucrium canadense</i>
Purple Meadow Rue	<i>Thalictrum dasycarpum</i>
Western ironweed	<i>Veronia baldwinii</i>
Prairie Violet	<i>Viola pedatifida</i>
Golden Alexander	<i>Zizia aurea</i>

Sandy Upland Species List

Sandy/Upland Site (34 species)

GRASSES

Big Bluestem	<i>Andropogon gerardi</i>
Side-oats Grama	<i>Bouteloua curtipendula</i>
Blue Grama	<i>Bouteloua gracilis</i>
Prairie Sandreed	<i>Calamovilfa longifolia</i>
Sand Lovegrass	<i>Eragrostis trichodes</i>
Six-weeks Fescue	<i>Festuca octoflora</i>
Switchgrass	<i>Panicum virgatum</i>
Indiangrass	<i>Sorghastrum avenaceum</i>
Tall Dropseed	<i>Sporobolus asper</i>
Sand Dropseed	<i>Sporobolus cryptandrus</i>
Needle & Thread	<i>Stipa comata</i>
Porcupine Grass	<i>Stipa spartea</i>
Little Bluestem	<i>Schizachrium scoparium</i>

SEDGES

Fescue Sedge	<i>Carex brevior</i>
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FORBS

Leadplant	<i>Amorpha canadensis</i>
Purple Poppymallow	<i>Callirhoe involucrata</i>
Serrate-leaf Primrose	<i>Calylophus serrulatus</i>
Rocky Mountain Bee P	<i>Cleome serrulata</i>
White Prairie Clover	<i>Dalea candidum</i>
Purple Prairie Clover	<i>Dalea purpurea</i>
Illinois Tickclover	<i>Desmodium illinoisensis</i>
Rigid Sunflower	<i>Helianthus laetiflorus</i>
Petioled Sunflower	<i>Helianthus petiolaris</i>
Roundheaded bushclo	<i>Lespedeza capitata</i>
Gayfeather	<i>Liatris squarrosa</i>
Prairie Trefoil	<i>Lotus unifoliolatus (Lotus purshianus)</i>
Fourpoint Evening-pr	<i>Oenothera rhombipetala</i>
Shell-leaf Penstemon	<i>Penstemon grandiflorus</i>
Upright Prairie Coneflo	<i>Ratibida columnifera</i>
Prairie Wild Rose	<i>Rosa arkansana</i>
Black-eyed Susan	<i>Rudbeckia hirta</i>
Catsclaw Sensitivebria	<i>Schrankia nuttallii</i>
Rigid Goldenrod	<i>Solidago rigidus</i>
Western Spiderwort	<i>Tradescantia occidentale</i>

Sandy Upland Species List

Additional Grass Species:

Sand bluestem	<i>Andropogon hallii</i>
Hairy grama	<i>Bouteloua hirsuta</i>
Purple lovegrass	<i>Eragrostis spectabilis</i>
Junegrass	<i>Koeleria macrantha</i> (<i>K. pyramidata</i>)
Sand muhly	<i>Muhlenbergia pungens</i>
Scribners Spring Panicum	<i>Panicum oligosanthos</i>
Slender Paspalum	<i>Paspalum setaceum</i>

Additional Sedge Species:

Sun sedge	<i>Carex heliophila</i>
Great plains Flatsedge	<i>Cyperus lupulinus</i>
Sand Flatsedge	<i>Cyperus schweinitzii</i>

Additional Forb Species:

Western sagewort	<i>Artemisia campestris</i>
White sage	<i>Artemisia ludoviciana</i>
Wooly milkweed	<i>Asclepias lanuginosa</i>
Narrowleaf milkweed	<i>Asclepias stenophylla</i>
Short Green Milkweed	<i>Asclepias viridiflora</i>
False Boneset	<i>Brickellia eupatorioides</i>
Reroot New Jersey Tea	<i>Ceanothus herbaceus</i>
Platte Thistle	<i>Cirsium canescens</i>
Bastard Toadflax	<i>Comandra umbellata</i>
Texas croton	<i>Croton texensis</i>
Silky Prairie-clover	<i>Dalea villosa</i>
Annual Wild Buckwheat	<i>Eriogonum annuum</i>
Large Cottonweed	<i>Froelichia floridana</i>
Hairy Golden-aster	<i>Heterotheca villosa</i> (<i>Chrysopsis villosa</i>)
Showy Vetchling	<i>Lathyrus polymorphus</i>
Hairy Puccoon	<i>Lithospermum carolinense</i>
Fringed Puccoon	<i>Lithospermum incisum</i>
Skeleton Plant	<i>Lygodesmia juncea</i>
Cutleaf Ironplant	<i>Machaeranthera pinnatifida</i> (<i>Haplopappus spinulosus</i>)
Pale Four-o'clock	<i>Mirabilis albida</i> (including <i>M. hirsuta</i>)
False Gromwell	<i>Onosmodium molle</i>
White Beardtongue	<i>Penstemon albidus</i>
Narrow Beardtongue	<i>Penstemon angustifolius</i>
Slender Beardtongue	<i>Penstemon gracilis</i>
Lemon Scurf Pea	<i>Psoralidium lanceolatum</i> (<i>Psoralea l.</i>)
Wild Begonia	<i>Rumex venosus</i>
Prairie Ragwort	<i>Senecio plattensis</i>
Missouri Goldenrod	<i>Solidago missouriensis</i>
Soft Goldenrod	<i>Solidago mollis</i>
Aromatic Aster	<i>Symphotrichum oblongifolium</i> (<i>Aster o.</i>)
Soapweed	<i>Yucca glauca</i>

Wetland Species List

Wet Site (23 species)

GRASSES

Northern Reedgrass	<i>Calamogrostis stricta</i>
Slender Wheatgrass	<i>Elymus trachycaulus</i>
Virginia Wildrye	<i>Elymus virginianus</i>
Switchgrass	<i>Panicum virgatum</i>
Cordgrass	<i>Spartina pectinata</i>
Prairie Wedgegrass	<i>Sphenophilis obtusata</i>

SEDGES

Fescue Sedge (Shortbeak sedge)	<i>Carex brevior</i>
Emory's Sedge	<i>Carex emoryii</i>
Heavy Sedge (wetland variety)	<i>Carex gravida</i>
Wooly Sedge	<i>Carex pellita (C. lanuginosa)</i>
Broom Sedge	<i>Carex scoparia</i>
Fox Sedge	<i>Carex vulpinoidea</i>

RUSHES

Prairie Bulrush	<i>Bolboschoenus maritimus</i>
Spikerush	<i>Eliocharis elliptica</i>
Dudley's Rush	<i>Juncus dudleyi</i>
Torrey's Rush	<i>Juncus torreyi</i>
Dark Green Bulrush	<i>Scirpus atrovirens</i>

FORBS

Plains Coreopsis	<i>Coreopsis tinctoria</i>
Sneezeweed	<i>Helenium autumnale</i>
Sawtooth Sunflower	<i>Helianthus grosseserratus</i>
Lanceleaf Gayfeather	<i>Liatris lancifolia</i>
Blue Vervain	<i>Verbena hastata</i>
Western Ironweed	<i>Vernonia fasciculatum</i>

Wetland Species List

Additional Grass Species:

Big bluestem	<i>Andropogon gerardii</i>
Blue Joint	<i>Calamagrostis canadensis</i>
Canada Wildrye	<i>Elymus canadensis</i>
Western Wheatgrass	<i>Elymus smithii</i> (<i>Agropyron s.</i>)
Little Bluestem	<i>Schizachyrium scoparium</i>
Indiangrass	<i>Sorghastrum nutans</i>
Sand dropseed	<i>Sporobolus cryptandrus</i>

Additional Sedge Species:

Sawbeak sedge	<i>Carex stipata</i>
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Additional Rush Species:

Bald Spikerush	<i>Eleocharis erythropoda</i>
Common Spikrush	<i>Eleocharis palustris</i> (<i>E. macrostachya</i>)
Three-square Bulrush	<i>Schoenoplectus pungens</i> (<i>Scirpus p.</i>)

Additional Forb Species:

Wild garlic	<i>Allium canadense</i>
Meadow Anemone	<i>Anemone canadensis</i>
Swamp Milkweed	<i>Asclepias incarnata</i>
Showy Milkweed	<i>Asclepias speciosa</i>
Prairie Milkweed	<i>Asclepias sullivantii</i>
Common water hemlock	<i>Cicuta maculata</i>
Illinois Bundleflower	<i>Desmanthus illinoensis</i>
Canada tickclover	<i>Desmodium canadense</i>
Cinnamon Willow Herb	<i>Epilobium coloratum</i>
Spotted Joe Pye Weed	<i>Eupatorium maculatum</i>
Common Boneset	<i>Eupatorium perfoliatum</i>
Hairy Fimbry	<i>Fimbristylis puberula</i>
Yellow Avens	<i>Geum aleppicum</i>
Wild Licorice	<i>Glycyrrhiza lepidota</i>
Maximillian Sunflower	<i>Helianthus maximilianii</i>
Jerusalem Artichoke	<i>Helianthus tuberosus</i>
False Sunflower	<i>Heliopsis helianthoides</i>
Yellow Star Grass	<i>Hypoxis hirsuta</i>
Great Blue Lobelia	<i>Lobelia siphilitica</i>
Pale Spiked Lobelia	<i>Lobelia spicata</i>
Common Water Horehound	<i>Lycopus americanus</i>
Western Water Horehound	<i>Lycopus asper</i>
Fringed Yellow-loostrife	<i>Lysimachia ciliata</i>
Tufted Yellow-loosestrife	<i>Lysimachia thyrsiflora</i>
Winged loosestrife	<i>Lythrum alatum</i>
Field mint	<i>Mentha arvensis</i>
Foxglove penstemon	<i>Penstemon digitalis</i>
Self-heal	<i>Prunella vulgaris</i>
Virginia Mountain-mint	<i>Pycnanthemum virginicum</i>
Black-eyed Susan	<i>Rudbeckia hirta</i>
Golden-glow	<i>Rudbeckia laciniata</i>
Marsh Skullcap	<i>Scutellaria galericulata</i>
Rosinweed	<i>Silphium integrifolium</i>
Cup Plant	<i>Silphium perfoliatum</i>
Compass-plant	<i>Silphium laciniatum</i>
Canada Goldenrod	<i>Solidago canadensis</i>
Late Goldenrod	<i>Solidago gigantea</i>

Wetland Species List

Common Hedge Nettle
Panicled Aster
New England Aster
Willowleaf Aster
American Germander
Purple Meadow Rue
Blue Vervain

Stachys pilosa (*S. palustris*)
Symphyotrichum lanceolatum (*Aster simplex*)
Symphyotrichum novae-angliae (*Aster n.*)
Symphyotrichum praealtum (*Aster praealtus*)
Teucrium canadense
Thalictrum dasycarpum
Verbena hastata

PPRI 2016-2017 Mesic Seed Mix (151 spp.)			
Grasses (22)			WIS
Andropogon	gerardii	Big Bluestem	FAC
Elymus	canadensis	Canada Wildrye	FACU
Elymus	trachycaulus	Slender Wheatgrass	FACU
Elymus	virginicus	Virginia Wildrye	FAC
Calamagrostis	stricta	Northern Reedgrass	FACW
Digitaria	cognata	Fall Witchgrass	SAND
Elymus	trachycaulus	Slender Wheatgrass	FACU
Elymus	virginicus	Virginia Wildrye	FAC
Eragrostis	spectabilis	Purple Lovegrass	FACU
Hordeum	jubatum	Foxtail Barley	FACW
Hordeum	pusillum	Little Barley	FACU
Koeleria	macrantha	June Grass	UPL
Panicum	acuminatum	Tapered Rosette Grass	FACW
Panicum	oligosanthes	Scribner's Panicum	FACU
Panicum	virgatum	Switchgrass	FAC
Pascopyrum	smithii	Western Wheatgrass	FACU
Schizachyrium	scoparium	Little Bluestem	FACU
Sorghastrum	nutans	Indiangrass	FACU
Spartina	pectinata	Prairie Cordgrass	FACW
Sphenopholis	obtusata	Prairie Wedgegrass	FACW
Sporobolus	asper	Tall Dropseed	FACU
Tridens	flavus	Purpletop	UPL
Sedges/Rushes (21)			WIS
Carex	brachyglossa	Yellowfruit Sedge	FAC
Carex	brevior	Fescue Sedge	FAC
Carex	crawei	Crawe's Sedge	FACW
Carex	cristatella	Crested Sedge	FACW
Carex	gravida	Wetland Gravida	OBL
Carex	gravida	Heavy Sedge	UPL
Carex	laeviconica	Smooth Cone Sedge	OBL
Carex	mesochorea	Midland Sedge	UPL
Carex	molesta	Troublesome Sedge	FAC
Carex	molesta	Troublesome Sedge	FAC
Carex	pellita	Wooly Sedge	OBL
Carex	scoparia	Broom Sedge	FACW
Carex	tribuloides	Blunt Broomsedge	FACW
Carex	vulpinoidea	Fox Sedge	OBL
Fimbristylis	puberula	Hairy Fimbry	OBL
Juncus	dudleyi	Dudley Rush	FACW
Juncus	interior	Interior Rush	FAC
Juncus	tenuis	Tenuis Rush	FAC
Schoenoplectus	pungens	Common Threesquare	OBL
Scirpus	pallidus	Pale Bulrush	OBL
Scirpus	pendulus	Rufous Bulrush	OBL
Legumes (17)			WIS
Amorpha	canescens	Leadplant	UPL
Astragalus	canadensis	Canada Milkvetch	FACU
Cassia	chamaecrista	Partridge Pea	FACU
Dalea	candidum	White Prairieclover	UPL
Dalea	leporina	Foxtail Dalea	FACU
Dalea	purpurea	Purple Prairieclover	UPL
Desmanthus	illinoensis	Illinois Bundleflower	FACU
Desmodium	canadense	Canada Tickclover	FAC
Desmodium	canescens	Hoary Tickclover	UPL
Desmodium	illinoense	Illinois Tickclover	UPL

Glycyrrhiza	lepidota	Wild licorice	FACU
Lespedeza	capitata	Roundhead Bushclover	UPL
Lotus	purshianus	Deervetch	FAC
Psoralea	argophylla	Silver-leaf Scurf Pea	UPL
Psoralea	tenuiflora	Wild Alfalfa	UPL
Schrankia	nuttallii	Sensitivebriar	UPL
Strophostyles	leiosperma	Wild Bean	UPL
Composites (46)			WIS
Achillea	millefolium	Yarrow	FACU
Arnoglossum	plantagineum	Pale Indian Plantain	FACU
Artemisia	ludoviciana	Sagewort	FACU
Aster	ericoides	Heath Aster	FAC
Aster	novae-angliae	New England Aster	FACW
Aster	prealtus	Blue Willowleaf Aster	FACW
Aster	simplex	Tall White Aster	FACW
Boltonia	asteroides	False Aster	FACW
Brickellia	eupatoroides	False Boneset	UPL
Cirsium	altissimum	Tall Thistle	FAC
Cirsium	flodmanii	Flodman Thistle	FAC
Coreopsis	tinctoria	Plains Correopsis	FAC
Echinacea	angustifolia	Purple Coneflower	UPL
Erigeron	philadelphicus	Marsh Fleabane	FAC
Erigeron	strigosus	Daisy Fleabane	FACW
Eupatorium	altissimum	Tall Joe Pye Weed	FACU
Euthamia	graminifolia	Grassleaf Goldenrod	FACW
Gnaphalium	obtusifolium	Fragrant Cudweed	UPL
Grindelia	squarrosa	Gumweed	FACU
Helenium	autumnale	Sneezeweed	FACW
Helianthus	grosseserratus	Sawtooth Sunflower	FACW
Helianthus	maximilianii	Maximilian Sunflower	UPL
Helianthus	rigidus	Stiff Sunflower	UPL
Helianthus	tuberosus	Jerusalem Artichoke	FAC
Heliopsis	helianthoides	False Sunflower	FACU
Hieracium	longipilum	Longbeard Hawkweed	UPL
Iva	annua	Small Marsh Elder	FAC
Lactuca	canadensis	Canada Lettuce	FACU
Lactuca	ludoviciana	Wild Lettuce	FAC
Liatris	lancifolia	Thickspike Gayfeather	FACW
Liatris	punctata	Dotted Gayfeather	UPL
Prenathes	aspera	Rough Rattlesnake Root	UPL
Ratibida	columnifera	Upright Prairie Coneflower	UPL
Rudbeckia	hirta	Black-eyed Susan	FACU
Rudbeckia	laciniata	Cutleaf Coneflower	FAC
Senecio	plattensis	Prairie Ragwort	FACU
Silphium	integrifolium	Entire-leaf Rosinweed	FACU
Silphium	laciniatum	Compass Plant	UPL
Silphium	perfoliatum	Cup Plant	FAC
Solidago	canadensis	Canada Goldenrod	FACU
Solidago	gigantea	Giant Goldenrod	FACW
Solidago	missouriensis	Missouri Goldenrod	UPL
Solidago	rigida	Stiff Goldenrod	FACU
Solidago	speciosa	Showy Goldenrod	UPL
Vernonia	baldwinii	Western Ironweed	FACW
Vernonia	fasciculata	Ironweed	FAC
Misc. Forbs (45)			WIS
Allium	canadense	Canada Garlic (Sets)	FAC
Allium	canadense	Canada Garlic (Seed)	FAC
Anemone	canadensis	Meadow Anemone	FACW

Anemone	cylindrica	Candle Anemone	UPL
Apocynum	cannabinum	Prairie Dogbane	FAC
Asclepias	speciosa	Showy Milkweed	FAC
Asclepias	sullivantii	Sullivan's Milkweed	FAC
Asclepias	syriaca	Common Milkweed	FAC
Asclepias	verticillata	Whorled Milkweed	FACU
Callirhoe	alcaeoides	Pale Poppy Mallow	UPL
Callirhoe	involucrata	Purple Poppy Mallow	UPL
Calylophus	serrulatus	Serrate-leaf Primrose	UPL
Euphorbia	marginata	Snow-On-The-Mountain	FACU
Gaura	parviflora	Velvety Guara	UPL
Gentiana	puberulenta	Downy Gentian	UPL
Linum	sulcatum	grooved Flax	UPL
Lobelia	siphilitica	Blue Cardinal Flower	OBL
Lobelia	spicata	Palespike Lobelia	FAC
Mirabilis	nyctaginea	Wild Four O'clock	UPL
Monarda	fistulosa	Wild Bergamot	FACU
Oenothera	villosa	Common Evening Primrose	FAC
Onosmodium	molle	Marbleseed	FACU
Penstemon	digitalis	Smooth Penstemon	FAC
Penstemon	gracilis	Slender Penstemon	FACU
Penstemon	grandiflorus	Shell-leaf Penstemon	UPL
Physalis	longifolia	Common Ground-cherry	UPL
Plantago	patagonica	Wooly Plantain	UPL
Polygonum	pennsylvanicum	Pennsylvania smartweed	FACW
Polytaenia	nuttallii	Prairie Parsley	FACU
Potentilla	arguta	Prairie Cinquefoil	FAC
Potentilla	norvegica	Norwegian Cinquefoil	FACU
Prunella	vulgaris	Self-heal	FACW
Pycnanthemum	virginianum	Mountain Mint	FAC
Rosa	arkansana	Wild Rose	FACU
Rosa	woodsii	Wood's Rose	FACU
Salvia	azurea	Pitcher Sage	UPL
Sisyrinchium	campestre	Prairie Blue-eyed Grass	UPL
Sisyrinchium	montanum	Strict Blue-eyed Grass	FAC
Teucrium	canadense	American Germander	FACW
Thalictrum	dasycarpum	Purple Meadow Rue	FACW
Tradescantia	bracteata	Bracted Spiderwort	FAC
Verbena	hastata	Blue Vervain	FACW
Verbena	stricta	Hoary Vervain	UPL
Verbena	urticifolia	Elm-leaf Verbena	UPL
Symphoricarpos	orbiculatus	Coralberry	FACU

PPRI 2016-2017 Sandy Seed Mix (143 species)			
Grasses (22)			WIS
Andropogon	gerardii	Big Bluestem	FAC
Bouteloua	curtipendula	Side-oats Grama	UPL
Calamovilfa	longifolia	Prairie Sandreed	UPL
Digitaria	cognata	Fall Witchgrass	SAND
Elymus	canadensis	Canada Wildrye	FACU
Eragrostis	spectabilis	Purple Lovegrass	FACU
Eragrostis	trichodes	Sand Lovegrass	SAND
Festuca	octoflora	Sixweeks Fescue	UPL
Hesperostipa	comata	Needle & Thread	SAND
Hesperostipa	spartea	Porcupine Grass	UPL
Koeleria	macrantha	June Grass	UPL
Panicum	acuminatum	Tapered Rosette Grass	FACW
Panicum	capillare	Witchgrass	FAC
Panicum	oligosanthes	Scribner's Panicum	FACU
Panicum	virgatum	Switchgrass	FAC
Pascopyrum	smithii	Western Wheatgrass	FACU
Paspalum	setaceum	Slender Paspalum	SAND
Schizachyrium	scoparium	Little Bluestem	FACU
Sorghastrum	nutans	Indiangrass	FACU
Sporobolus	asper	Tall Dropseed	FACU
Sporobolus	cryptandrus	Sand Dropseed	SAND
Tridens	flavus	Purpletop	UPL
Sedges/Rushes (9)			WIS
Carex	brevior	Fescue Sedge	FAC
Carex	gravida	Heavy Sedge	UPL
Carex	mesochorea	Midland Sedge	UPL
Carex	molesta	Troublesome Sedge	FAC
Cyperus	lupulinus	Houghton Flat Sedge	FACU
Cyperus	schweinitzii	Schweinitz Flat Sedge	FACU
Juncus	dudleyi	Dudley Rush	FACW
Juncus	interior	Interior Rush	FAC
Juncus	tenuis	Tenuis Rush	FAC
Legumes (23)			WIS
Amorpha	canescens	Leadplant	UPL
Astragalus	canadensis	Canada Milkvetch	FACU
Cassia	chamaecrista	Partridge Pea	FACU
Crotalaria	sagittalis	Arrowhead Rattlebox	UPL
Dalea	candidum	White Prairieclover	UPL
Dalea	leporina	Foxtail Dalea	FACU
Dalea	purpurea	Purple Prairieclover	UPL
Dalea	villosa	Silky Prairieclover	SAND
Desmanthus	illinoensis	Illinois Bundleflower	FACU
Desmodium	canadense	Canada Tickclover	FAC
Desmodium	canescens	Hoary Tickclover	UPL
Desmodium	illinoense	Illinois Tickclover	UPL
Glycyrrhiza	lepidota	Wild licorice	FACU
Lathyrus	polymorphus	Hoary Peavine	UPL
Lespedeza	capitata	Roundhead Bushclover	UPL
Lotus	purshianus	Deervetch	FAC
Oxytropis	lambertii	Lambert Locoweed	FACU
Psoralea	argophylla	Silver-leaf Scurf Pea	UPL
Psoralea	digitata	Palm-leaf Scurfpea	SAND
Psoralea	lanceolata	Lemon Scurfpea	SAND

Psoralea	tenuiflora	Wild Alfalfa	UPL
Schrankia	nuttallii	Sensitivebriar	UPL
Strophostyles	leiosperma	Wild Bean	UPL
Composites (35)			WIS
Achillea	millefolium	Yarrow	FACU
Artemisia	campestris	Green Sage	UPL
Artemisia	ludoviciana	Sagewort	FACU
Aster	ericoides	Heath Aster	FAC
Brickellia	eupatoroides	False Boneset	UPL
Cirsium	flodmanii	Flodman Thistle	FAC
Cirsium	undulatum	Wavyleaf Thistle	FACU
Echinacea	angustifolia	Purple Coneflower	UPL
Erigeron	strigosus	Daisy Fleabane	FAC
Eupatorium	altissimum	Tall Joe Pye Weed	FACU
Euthamia	graminifolia	Grassleaf Goldenrod	FACW
Gnaphalium	obtusifolium	Fragrant Cudweed	UPL
Grindelia	squarrosa	Gumweed	FACU
Haplopappus	spinulosus	Cutleaf Ironplant	UPL
Helianthus	rigidus	Stiff Sunflower	UPL
Helianthus	maximiliani	Maximilian Sunflower	UPL
Helianthus	tuberosus	Jerusalem Artichoke	FAC
Heliopsis	helianthoides	False Sunflower	FACU
Heterotheca	villosa	Hairy Goldaster	FACU
Lactuca	canadensis	Canada Lettuce	FACU
Lactuca	ludoviciana	Wild Lettuce	FAC
Liatris	aspera	Rough Gayfeather	UPL
Liatris	punctata	Dotted Gayfeather	UPL
Liatris	squarrosa	Scaly Blazing Star	UPL
Ratibida	columnifera	Upright Prairie Coneflower	UPL
Rudbeckia	hirta	Black-eyed Susan	FACU
Senecio	plattensis	Prairie Ragwort	FACU
Silphium	integrifolium	Entire-leaf Rosinweed	FACU
Solidago	canadensis	Canada Goldenrod	FACU
Solidago	gigantea	Giant Goldenrod	FACW
Solidago	missouriensis	Missouri Goldenrod	UPL
Solidago	mollis	Western Goldenrod	UPL
Solidago	rigida	Stiff Goldenrod	FACU
Solidago	speciosa	Showy Goldenrod	UPL
Vernonia	baldwinii	Western Ironweed	FACW
Misc. Forbs (54)			WIS
Agalinis	aspera	Tall False Foxglove	FACU
Allium	canadense	Canada Garlic (Seed)	FAC
Allium	textile	White Onion	UPL
Anemone	cylindrica	Candle Anemone	UPL
Asclepias	arenaria	Sand Milkweed	SAND
Asclepias	syriaca	Common Milkweed	FAC
Callirhoe	alcaeoides	Pale Poppy Mallow	UPL
Callirhoe	involucrata	Purple Poppy Mallow	UPL
Calylophus	serrulatus	Serrate-leaf Primrose	UPL
Ceanothus	herbaceous	New Jersey Tea	UPL
Cleome	serrulata	Rocky Mountain Beeplant	FACU
Croton	texensis	Skunk Weed	UPL
Delphinium	virescens	Plains Larkspur	UPL
Eriogonum	annuum	Annual Eriogonum	SAND
Euphorbia	davidii	Western Toothed Spurge	UPL

Euphorbia	hexagona	Six-angle Spurge	SAND
Euphorbia	marginata	Snow-On-The-Mountain	FACU
Froelichia	floridana	Field Snake-Cotton	SAND
Gaura	longiflora	Large-flowered Guara	UPL
Gaura	parviflora	Velvety Guara	UPL
Gentiana	puberulenta	Downy Gentian	UPL
Hedeoma	hispidum	Rough pennyroyal	UPL
Linum	rigidum	Stiffstem Flax	SAND
Linum	sulcatum	grooved Flax	UPL
Lithospermum	carolinense	Plains Puccoon	SAND
Lithospermum	incisum	Narrowleaf Puccoon	UPL
Mirabilis	hirsuta	Hairy Four O'clock	UPL
Mirabilis	nyctaginea	Wild Four O'clock	UPL
Monarda	fistulosa	Wild Bergamot	FACU
Monarda	pectinata	Lemon Beebalm	SAND
Oenothera	rhombipetala	4-point Evening Primrose	SAND
Oenothera	villosa	Common Evening Primrose	FAC
Onosmodium	molle	Marbleseed	FACU
Penstemon	albidus	White Penstemon	UPL
Penstemon	angustifolius	Narrowleaf Penstemon	UPL
Penstemon	digitalis	Smooth Penstemon	FAC
Penstemon	gracilis	Slender Penstemon	FACU
Penstemon	grandiflorus	Shell-leaf Penstemon	UPL
Physalis	longifolia	Common Ground-cherry	UPL
Physalis	pumila	Sandhills Ground-cherry	SAND
Plantago	patagonica	Wooly Plantain	UPL
Potentilla	arguta	Prairie Cinquefoil	FAC
Prunus	pumila	Sandcherry	SAND
Pycnanthemum	virginianum	Mountain Mint	FAC
Rosa	arkansana	Wild Rose	FACU
Rosa	woodsii	Wood's Rose	FACU
Rumex	venosus	Wild Begonia	SAND
Salvia	azurea	Pitcher Sage	UPL
Silene	anterrhina	Sleepy Catchfly	UPL
Sisyrinchium	campestre	Prairie Blue-eyed Grass	UPL
Tradescantia	occidentale	Western Spiderwort	SAND
Triodanis	leptocarpa	Venus' Lookingglass	FACU
Verbena	stricta	Hoary Vervain	UPL
Verbena	urticifolia	Elm-leaf Verbena	UPL

PPRI 2016-2017 Wetland Seed Mix (139 spp.)			
Grasses (15)			WIS
Alopecurus	aequalis	Shortawn Foxtail	OBL
Calamagrostis	canadensis	Bluejoint	OBL
Calamagrostis	stricta	Northern Reedgrass	FACW
Elymus	trachycaulus	Slender Wheatgrass	FACU
Elymus	virginicus	Virginia Wildrye	FAC
Glyceria	grandis	Large Manna Grass	OBL
Glyceria	striata	Manna grass	OBL
Hordeum	jubatum	Foxtail Barley	FACW
Leersia	oryzoides	Rice Cut Grass	OBL
Muhlenbergia	racemosa	Marsh Muhly	FACW
Panicum	acuminatum	Tapered Rosette Grass	FACW
Panicum	oligosanthes	Scribner's Panicum	FACU
Pascopyrum	smithii	Western Wheatgrass	FACU
Spartina	pectinata	Prairie Cordgrass	FACW
Sphenopholis	obtusata	Prairie Wedgegrass	FACW
Sedges/Rushes (34)			WIS
Carex	bebbii	Bebb's Sedge	OBL
Carex	brachyglossa	Yellowfruit Sedge	FAC
Carex	brevior	Fescue Sedge	FAC
Carex	crawei	Crawe's Sedge	FACW
Carex	crisatella	Crested Sedge	FACW
Carex	emoryi	Emory's Sedge	OBL
Carex	gravida	Heavy Sedge	UPL
Carex	gravida	Wetland Gravida	OBL
Carex	hystericina	Bottlebrush Sedge	OBL
Carex	interior	Interior Sedge	OBL
Carex	laeviconica	Smooth Cone Sedge	OBL
Carex	molesta	Troublesome Sedge	FAC
Carex	pellita	Wooly Sedge	OBL
Carex	praegracilis	Clustered Field Sedge	FACW
Carex	sartwellii	Sartwell's Sedge	OBL
Carex	scoparia	Broom Sedge	FACW
Carex	stipata	Saw-beak Sedge	OBL
Carex	tribuloides	Blunt Broomsedge	FACW
Carex	vulpinoidea	Fox Sedge	OBL
Eleocharis	palustris	Common Spikerush	OBL
Eleocharis	erythropoda	Bald Spikerush	OBL
Fimbristylis	puberula	Hairy Fimbry	OBL
Juncus	balticus	Baltic Rush	FACW
Juncus	dudleyi	Dudley Rush	FACW
Juncus	interior	Interior Rush	FAC
Juncus	marginatus	Grassleaf Rush	FACW
Juncus	tenuis	Tenuis Rush	FAC
Juncus	torreyi	Torrey's Rush	FACW
Schoenoplectus	acutus	Chairmaker's Rush	OBL
Schoenoplectus	pungens	Common Threesquare	OBL
Scirpus	atrovirens	Dark Green Bulrush	OBL
Scirpus	maritimus	Prairie Bulrush	OBL
Scirpus	pallidus	Pale Bulrush	OBL
Scirpus	pendulus	Rufous Bulrush	OBL
Legumes (6)			WIS
Astragalus	canadensis	Canada Milkvetch	FACU
Cassia	chamaecrista	Partridge Pea	FACU
Dalea	leporina	Foxtail Dalea	FACU
Desmanthus	illinoensis	Illinois Bundleflower	FACU

Glycyrrhiza	lepidota	Wild licorice	FACU
Lotus	purshianus	Deervetch	FAC
Composites (32)			WIS
Achillea	millefolium	Yarrow	FACU
Aster	ericoides	Heath Aster	FAC
Aster	novae-angliae	New England Aster	FACW
Aster	prealtus	Blue Willowleaf Aster	FACW
Aster	simplex	Tall White Aster	FACW
Bidens	comosa	Threelobe Beggarticks	OBL
Boehmeria	cylindrica	False Nettle	OBL
Boltonia	asteroides	False Aster	FACW
Coreopsis	tinctoria	Plains Correopsis	FAC
Erigeron	philadelphicus	Marsh Fleabane	FAC
Erigeron	strigosus	Daisy Fleabane	FACW
Eupatorium	maculatum	Spotted Joe Pye Weed	OBL
Eupatorium	perfoliatum	Boneset	OBL
Euthamia	graminifolia	Grassleaf Goldenrod	FACW
Grindelia	squarrosa	Gumweed	FACU
Helenium	autumnale	Sneezeweed	FACW
Helenium	autumnale	Sneezeweed (Fertig)	FACW
Helianthus	grosseserratus	Sawtooth Sunflower	FACW
Helianthus	tuberosus	Jerusalem Artichoke	FAC
Iva	annua	Small Marsh Elder	FAC
Lactuca	canadensis	Canada Lettuce	FACU
Lactuca	ludoviciana	Wild Lettuce	FAC
Liatris	lancifolia	Thickspike Gayfeather	FACW
Ratibida	columnifera	Upright Prairie Coneflower	UPL
Rudbeckia	hirta	Black-eyed Susan	FACU
Rudbeckia	laciniata	Cutleaf Coneflower	FAC
Senecio	plattensis	Prairie Ragwort	FACU
Silphium	integrifolium	Entire-leaf Rosinweed	FACU
Silphium	perfoliatum	Cup Plant	FAC
Solidago	canadensis	Canada Goldenrod	FACU
Solidago	gigantea	Giant Goldenrod	FACW
Vernonia	fasciculata	Ironweed	FAC
Misc. Forbs (52)			WIS
Agalinis	tenuifolia	Slender False Foxglove	FACW
Alisma	trivale	American Water Plantain	OBL
Allium	canadense	Canada Garlic (Sets)	FAC
Allium	canadense	Canada Garlic (Seed)	FAC
Ammania	coccinea	Tooth Cup	OBL
Anemone	canadensis	Meadow Anemone	FACW
Anemone	cylindrica	Candle Anemone	UPL
Apocynum	cannabinum	Prairie Dogbane	FAC
Asclepias	incarnata	Swamp Milkweed	OBL
Asclepias	speciosa	Showy Milkweed	FAC
Asclepias	sullivantii	Sullivant's Milkweed	FAC
Asclepias	syriaca	Common Milkweed	FAC
Asclepias	verticillata	Whorled Milkweed	FACU
Epilobium	coloratum	Cinnamon Willow Herb	OBL
Gentiana	andrewsii	Bottle Gentian	FAC
Impatiens	capensis	Spotted Touch-me-not	FACW
Lippia	lanceolata	Fog Fruit	OBL
Lobelia	cardinalis	Cardinal Flower	OBL
Lobelia	siphilitica	Blue Cardinal Flower	OBL
Lobelia	spicata	Palespike Lobelia	FAC
Lycopus	americanus	American Bugleweed	OBL
Lycopus	asper	Rough Bugleweed	OBL

Lysimachia	ciliata	Fringed Loosestrife	FACW
Lythrum	alatum	Winged Lythrum	OBL
Mentha	arvensis	Field Mint	FACW
Oenothera	villosa	Common Evening Primrose	FAC
Penstemon	digitalis	Smooth Penstemon	FAC
Penstemon	gracilis	Slender Penstemon	FACU
Penthorum	sedoides	Ditch Stonecrop	OBL
Physalis	longifolia	Common Ground-cherry	UPL
Polygonum	coccineum	Swamp Smartweed	FACW
Polygonum	hydropiperoides	Mild Water Pepper	OBL
Polygonum	lapathifolium	Pale Smartweed	OBL
Polygonum	pennsylvanicum	Pennsylvania smartweed	FACW
Polytaenia	nuttallii	Prairie Parsley	FACU
Potentilla	arguta	Prairie Cinquefoil	FAC
Potentilla	norvegica	Norwegian Cinquefoil	FACU
Prunella	vulgaris	Self-heal	FACW
Pycnanthemum	virginianum	Mountain Mint	FAC
Ranunculus	sceleratus	Cursed Crowfoot	OBL
Sagittaria	brevirostra	Shortbeak Arrowhead	OBL
Sagittaria	calycina	Hooded Arrowhead	OBL
Sagittaria	latifolia	Broadleaf Arrowhead	OBL
Scutellaria	galericulata	Marsh Skullcap	OBL
Sisyrinchium	montanum	Strict Blue-eyed Grass	FAC
Teucrium	canadense	American Germander	FACW
Thalictrum	dasycarpum	Purple Meadow Rue	FACW
Tradescantia	bracteata	Bracted Spiderwort	FAC
Tradescantia	occidentale	Western Spiderwort	SAND
Verbena	hastata	Blue Vervain	FACW
Verbena	stricta	Hoary Vervain	UPL
Verbena	urticifolia	Elm-leaf Verbena	UPL