FULL-SERVICE ECOLOGICAL SOLUTIONS™

JFNew

ECOLOGICAL CONSULTING

NATIVE PLANT NURSERY

RESTORATION SERVICES

2009 RESOURCE CATALOG

20 YEARS OF SERVING CLIENTS AND THE ENVIRONMENT www.JFNew.com

1% FOR THE PLANET MEMBER

A NOTE FROM OUR PRESIDENT

CELEBRATING 20 YEARS OF MEETING OUR MISSION

In 2009, JFNew celebrates 20 years of service to our clients. We continue to focus on our mission of meeting client needs while positively impacting the lives of our employees and the conservation of natural resources. As we reflect on growth and accomplishments, we are proud of the difference we have made — bringing solutions to complex projects, employing hundreds of people and restoring thousands of acres of natural areas throughout the Great Lakes region.

EMBRACING ENVIRONMENTAL LEADERSHIP

Looking forward, JFNew sees great opportunity to continue our leadership role in natural resources management and ecological restoration. We will build on our culture of continuous learning and improvement, sharing knowledge on how to make designs and plans work in the field. With growing awareness of the environmental challenges we face, interest in sustainable solutions is strong. However, the interest and intent is often ahead of the practical knowledge of how to make projects succeed on the ground and not just on paper. With JFNew's full-service ecological solutions capabilities, including our leading native plant nursery, we have the knowledge needed to support clients in achieving real success with their projects.

RESPONSIBILITY AND COMMITMENT TO SUSTAINABILITY

Ongoing development exerts increasing pressure on the world's natural resources. Conserving and restoring these scarce resources is a responsibility JFNew takes seriously. Regardless of your project needs, JFNew has sustainable solutions and we work to demonstrate sustainability to clients through the way we manage our business.

By changing our catalog design and printing methods, JFNew has saved 49 trees, 4,525 pounds of greenhouse gas emmissions and over 20,000 gallons of wastewater. These are just a few of the benefits JFNew has realized by seeking sustainable printing solutions. See "Sustaining Progress" on page 57 to read about our 2009 catalog journey.

AWARD-WINNING CULTURE

JFNew works hard to provide a culture of open-employee feedback for our most important asset – our people! While we have been a privileged recipient of many awards at the project level, JFNew's positive work environment has also earned company-based awards, such as:

2008 *WALL STREET JOURNAL* "TOP SMALL WORKPLACES" FINALIST

JFNew was a finalist for the 2008 Top Small Workplaces annual list, recognizing exceptional small-business employers in North America who encourage and reward innovation, teamwork and professional growth while providing a culture and benefits that create employee loyalty.

Winning Workplaces, an Evanston, Illinois based non-profit, and *The Wall Street Journal* collaborated to select winners from more than 780 nominations in search of private, non-profit and publicly-held organizations based in North America with fewer than 500 employees and not more than $200 million in revenue. JFNew was one of 35 finalists selected by a prestigious panel of small business experts.

2008 INDIANA COMPANIES TO WATCH

JFNew was one of 50 companies from Indiana honored as an outstanding business during the first Indiana Companies to Watch awards program. We were selected from 400 businesses for demonstrating the intent and capacity to grow based on sales, exceptional entrepreneurial leadership, sustainable competitive advantage and other notable strengths.

2007 THE SAMARITAN AWARD

Sponsored by the South Bend Samaritan Counseling Center, the purpose of the Samaritan Award is to bring the importance of family-friendly work environments to the attention of St. Joseph County employers and to honor those who provide a healthy work-life balance. JFNew was recognized for its outstanding employee benefits and family-friendly policies.

Thanks for your continued interest in JFNew.

Will Ditzler
President, JFNew

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FSC Mixed Sources

DEFINITIONS

Value \val-()yü\ *n* something (as a principle or quality) intrinsically valuable or desirable

Nat-u-ral \na-chə-rəl, nach-rəl\ *adj* being in accordance with or determined by nature; having or constituting a classification based on features existing in nature

Ecosystem \e'kō-,sistəm\ *n* a complex of plant, animal and micro-organism communities and their non-living environment interacting as a functional unit

Understanding these definitions helps us appreciate the interactions necessary for an ecosystem to work harmoniously. The complex nature and interaction of these ecosystems provide a range of solutions to many challenges we face in planning and managing our developed and undeveloped spaces.

Natural ecosystems have provided ecological benefits, such as clean water and biodiversity, for millions of years. They balance the hydrologic cycle and provide habitat for a diverse blend of plant and animal communities. Their intrinsic value to our quality of life is immeasurable and evident in sites both large and small. Large-scale sites, such as the Midewin National Tall Grass Prairie located in Wilmington, Illinois, provide examples of the productive capacity of natural ecosystems. Midewin, a 19,000-acre prairie reserve operated by the United States Forest Service, is the only federally managed tallgrass prairie and one of the few remaining areas of tallgrass prairie located east of the Mississippi River. At the other end of the spectrum, small-scale sites such as community rain gardens demonstrate the design options that can blend nature's functionality with the needs of the built environment. These examples prove we can reduce the impact of an urban environment through both natural and restored ecosystems.

The recent public awareness and emphasis on environmental conservation present new opportunities for companies performing work in the native landscaping sector. Natural ecosystems provide the capacity to capture and absorb stormwater, improve water quality, provide habitat and cleanse the environment of contaminants. The challenge is to design, specify, install and maintain these landscape improvements in ways that allow them to survive and succeed. The complex interaction between soil, hydrology and vegetation can make successful implementations difficult to achieve. By accounting for these interactions, native landscape projects can surpass client expectations and deliver many of the benefits clients seek from a natural landscape.

Woodman Fen Wetland Restoration

Dayton, Ohio

When melting glaciers passed through the Miami Valley more than 13,000 years ago, they deposited tons of glacial material forming a porous layer of peat and muck that groundwater could easily flow through. Created through the ice melt process were natural bogs and fens, such as the 40-acre Woodman Fen site located along Woodman Drive adjacent to Dayton's historic Belmont Park. The site is a rare western Ohio "alkaline fen", unfortunately used to support agriculture production and residential dumping for many decades.

Recognizing the value of restoring Woodman Fen, JFNew worked with a leading national retailer to undertake a turnkey design/build wetland mitigation and restoration project. The primary project stakeholders included the client and the landowner —a large park district passionately concerned with restoring a fen community in their MetroPark system. Restoration plans were developed to restore over five acres of the natural western Ohio fen community, with the primary goal of re-establishing groundwater hydrology disrupted by agricultural tile drainage and man-made ditch channelization. The innovative design/build solution involved the installation of a unique groundwater interception wall, adjacent stream gradient control structures, microtopographical adjustments and naturalized stormwater swale relocations. As part of the restoration phase, locally native and historic fen species were identified and ultimately collected with permits by JFNew staff. Through local genotype seed collection efforts and a restoration technique known as seed "amplification," JFNew's nursery and restoration teams were able to harvest and grow locally native wetland species for the restoration effort. During the 6 month restoration process, approximately 80 pounds of local seed from three, high-quality, locally known fen communities were collected and harvested. The seed, amplified into approximately 6,000 plant plugs, will be installed spring 2009 to meet success criteria for native vegetation establishment. Ongoing maintenance, monitoring and preservation of the fen will continue during the regulatory monitoring period, working closely with the park district to eliminate exotic species while introducing native plants and amphibians from the entire 40-acre MetroPark area.

JFNew offers a full range of services intended to support and augment the capabilities of our valued clients. This resource catalog is intended to offer information and guidelines on designing, specifying and maintaining a natural landscape project. For more complete information, visit www.JFNew.com.

WHY HEALTHY NATURAL ECOSYSTEMS MATTER

Ecosystems are fundamental to life and so large-in-scale that they are easily taken for granted and often undervalued. It is difficult to imagine that human activities could destroy them. However, the choices we make today in how we use land and water resources will have an enormous impact on the future sustainability of Earth's ecosystems and the value they provide. Ecosystems are severely threatened through growth in the scale of human enterprise (population size, per-capita consumption, etc.). Additionally, ecosystems are compromised through a mismatch between short-term needs and long-term societal well-being. Many human activities disrupt, impair or modify ecosystems every day including:

- runoff of pesticides, fertilizers and wastes
- pollution of land, water and air resources
- introduction of non-native species
- over-harvesting of fisheries
- destruction of wetlands
- erosion of soils
- deforestation
- urban sprawl

Mishawaka Riverwalk

Mishawaka, Indiana

The mass of structures within the 43-acre former Uniroyal plant effectively cut off 3,000 linear feet of the St. Joseph River from the Mishawaka Central Business District, both visually and physically. The site had been used for manufacturing since 1833. On April 1, 1997 the doors closed permanently and a year later the City of Mishawaka took control of the property to facilitate redevelopment of the brownfield site in an effort to revitalize the Central Business District. This enabled the community to consider ways of reintegrating the river into the downtown and surrounding neighborhoods. It also allowed for innovative techniques to landscape the site in a manner that would reduce water use and maintenance.

The resulting landscaping plan incorporated native plant species throughout and focused on restoring habitat on the north bank of the St. Joseph River, including planting over 5,000 linear feet of vegetated biologs. In addition, the native landscaping utilized over 20,000 native grass and wildflower plugs, and 780 native trees and shrubs within 75,000 square feet of open space. The resulting project improves the stormwater quality inflow to the river by filtering sediments and pollutants, reduces erosion by holding soil in place, provides wildlife habitat and cover for fish and creates scenic beauty along the water's edge. The project also serves as a model of sustainable community revitalization through the use of its naturalized areas.

The Mishawaka Riverwalk area is currently being developed into a mixed-use, pedestrian-friendly community with a blend of commercial and residential use. Additionally, this area connects several parks for recreational use through a series of bike and walking trails.

Greater use of native plants within an ecosystem can be an effective component in addressing additional environmental quality issues, including:

Reducing Soil Erosion and Air Pollution

The root systems of many native plants species are deep and extensive. This underground structure holds the soil in place naturally when wind and water would otherwise move precious topsoil. Like all plants, natives also take in carbon dioxide and convert it to oxygen, thus improving air quality.

Improving Water Quality and Conservation

Natural ecosystems provide a robust water filtration capacity that uses a complex interaction of soil, microbes and plants to purify and cycle water, breaking down organic toxins naturally. Irrigation accounts for nearly 70 percent of fresh water consumption in the United States. However, prairie plants are drought tolerant and require little or no irrigation once established, which can help ease water demand and better manage this resource.

Flood Mitigation and Stormwater Management

The infiltration capacity of native landscaping helps keep stormwater from overwhelming sewage infrastructures. Native plants also evapotranspire moisture to return stormwater into the atmosphere. Natural stormwater systems such as wetlands and swales are ideally suited for rainwater capture, detention, infiltration and purification. These systems absorb peak events and gradually release them to recharge aquifers and surface water supplies.

Carbon Sequestration

More carbon is stored in soil than in the Earth's atmosphere and all its plants. The deep-rooted structure of native prairie and wetland plants boost carbon deposits in the soil, creating a potent carbon sink. Restoring and preserving these ecosystems can create a natural carbon storage reservoir that can help mitigate the effects of fossil fuel combustion.

Increasing Habitat and Biodiversity

Habitats are as diverse as the plants and animals that live in them, and most plants and animals are uniquely adapted to survive in a specific habitat. If that habitat is destroyed, the plant or animal's survival is severely threatened. Unfortunately, human pressures such as logging, agriculture, fishing and pollution negatively impact important habitats. As habitats are degraded, the species that depend upon them are endangered or driven to extinction. For the Earth's rich biodiversity to survive, these important habitats must be conserved.

Low Impact Development

Low Impact Development (LID) is a community development concept that highlights the importance of the natural environment in decisions about land use planning. It places particular emphasis on the quality-of-life functions provided by natural habitat, clean water and healthy soils. This design protocol embraces the concepts of open space preservation and cluster development to conserve a site's natural value. LID principles define Best Management Practices for both preventative (non-structural) and mitigative (structural) design strategies. Natural stormwater treatment options in a LID plan generally aim to detain and then gradually absorb and evaporate stormwater locally. Examples include:

- **vegetated swales**
- **bioretention basins**
- **riparian buffer strips**
- **green roof systems**
- **wetlands**
- **rain gardens**
- **pervious paving**
- **rain barrels & cisterns**
- **native landscapes**

Connecting Nature, Landscapes and Culturally Significant Places

The relationship between nature, landscapes and culture is unique and entirely dependent on a culture's perspective regarding the connectivity of the three. Recognizing that these three perspectives share an interrelationship provides an opportunity to optimize planning decisions. Many of us already feel these effects in our personal lives in the form of sprawling developments encroaching on our backyards, or in our professional lives as we work to manage these modern pressures on the landscape. Natural prairies and wetlands are being converted at an alarming rate in exchange for more agricultural and developmental space. However, through thoughtful planned management, communities can grow and benefit without sacrificing our environment, culture or shared heritage.

Aesthetic Enhancement

Native plant species provide opportunities for enhancing the aesthetics of any landscape, be it a residential application, master-planned subdivision or office complex. Natives can provide a wide range of bloom times and colors, heights and textures. Even during the non-growing season, native plants and grasses provide visual interest and color when common landscaping is brown and leafless.

Economic Benefits

There are a multitude of economic benefits to be gained from implementing a natural ecosystem. For example, once established, native plants require less maintenance and watering than those more commonly used in landscaping and agricultural applications. This means less cost for fertilizers, mowing and water. It also means less fertilizer runoff, less air and noise pollution from mowers and less energy used to irrigate. Additionally, in terms of managing stormwater runoff, well planned, natural stormwater management systems can reduce the necessary land requirements, allowing for increased development density. Finally, relative to carbon sequestration, properly verified and registered carbon credits can also be marketed through the emerging carbon exchange markets, including the Chicago Climate Exchange.

The Grand River Streambank Restoration

Ada, Michigan

The Grand River, the longest river in Michigan, runs along approximately 1 mile of frontage owned by Alticor, Inc. (Amway). The river seasonally fluctuates 8' to 10' as it crosses Amway's property, causing severe erosion and structural instability. In addition to contributing sediment to the Grand River and, ultimately, Lake Michigan, the erosion was beginning to jeopardize the integrity of the adjacent Lake Amway.

Alticor was committed to a shoreline restoration that was environmentally friendly and had an ecologically-based design. After numerous, unsuccessful consultant searches, JFNew was selected in 2004 due to its substantial experience using natural systems for streambank stabilization and restoration. Through the design process, JFNew narrowed the project scope to 1,000 linear feet based on bank conditions and budgetary constraints. The implemented solution involved a stone-toe base capped with soil encapsulated lifts. The lifts were designed with biodegradable materials, soil and native vegetation to stabilize the shoreline.

Following the conceptual and final design, JFNew prepared and submitted all necessary state and local permit applications, and was retained by Alticor for the construction of the project. Due to the severity of the erosion, site constraints, and environmental sensitivity, JFNew used cautious measures for placement of the stone and soil. To minimize disturbance to the surrounding ecosystem, the back of the side berm was widened to allow for the stone placement and the soil blend was blown into the lifts through the use of a compost/mulch blowing truck.

There were numerous implementation challenges faced during the restoration due to the state of the riverbank and river itself. JFNew used its extensive experience and expertise to develop innovative, green engineering techniques to meet the challenges, achieve the goals of the project and stay on budget.

When designing a natural ecosystem, careful planning and assessment are key steps along the path to successful projects. JFNew recommends all projects define and communicate the following design criteria:

- Performance Intent
- Site Attributes
- Aesthetics

Regardless of the size and scope of a native landscaping project, the outcome will be improved with attention to these design criteria.

PERFORMANCE INTENT

What are the performance criteria you seek to achieve?

Specific primary and secondary goals for any restoration project should be identified before the project begins. Long-term success will be measured by attainment of the primary goals. Objectives should be developed from these goals to provide meaningful benchmarks on which to measure a project's success. Depending on the scope of your project, performance criteria can encompass commercial or private development needs such as:

Stormwater Management

Combined Sewer Overflow (CSO) issues and the mounting challenges of overburdened and aging water treatment infrastructure are causing an increasing interest in "green infrastructure" capabilities to treat stormwater. New regulations are requiring cities and towns to achieve a higher standard for stormwater management. As a result, natural treatment options such as bioswales and rain gardens that can successfully address water quality and quantity issues are growing in acceptance.

Aquatic & Watershed Restoration

Water quality and availability are gaining importance in many areas that have long enjoyed abundant clean water. Natural ecosystems can provide a broad range of services in this regard. Examples include water purification, groundwater recharge and stormwater management. Healthy aquatic ecosystems rely on a balance of vegetation, hydrology and biological communities, all of which can be accounted for in the project design.

Bioswales

Bioswales are landscape features designed to remove silt and pollution from surface stormwater runoff. They typically consist of a swale drainage course with gently sloped sides and are filled with native vegetation, soil and rock. The water's flow path is designed to maximize contact with vegetation and soil, filtering pollutants before recharging the ground water or discharging into surface waters.

A common application is around parking lots where substantial automotive pollution is collected on the impervious surface and then flushed by rain.

Plant selection for bioswales should be based on soil composition, hydrology duration and aesthetic considerations. The sloped areas are often appropriate for drier species common to prairie communities. Live plants are typically used to provide a more immediate and structured landscape. Aesthetic and common species used in the more wet basins of the bioswale include:

- ***Asclepias incarnata*** **(Swamp Milkweed)**
- ***Aster novae-angliae*** **(New England Aster)**
- ***Carex*** **spp. (Sedges)**
- ***Helenium autumnale*** **(Sneezeweed)**
- ***Lobelia cardinalis*** **(Cardinal Flower)**
- ***Lobelia siphilitica*** **(Great Blue Lobelia)**
- ***Mimulus ringens*** **(Monkey Flower)**
- ***Zizia aurea*** **(Golden Alexanders)**

Mitigation

Mitigation involves a series of actions a developer must take to offset damage to sensitive natural areas caused by development activities. Performance criteria are usually dictated by a regulatory agency and generally extend across a multi-year window. Impacts to wetlands, streams and habitat for Rare, Threatened and Endangered (RTE) species are common categories of mitigation. Under the right circumstances, mitigation sites can provide secondary benefits such as wildlife habitat, outdoor recreation and flood water storage.

Nutrient Management

Nitrogen and phosphorus are powerful nutrients and their use is on the rise. When too much of these nutrients reach our rivers and streams, algae blooms that result in hypoxia or "dead zones" can result in our coastal regions. Natural areas such as wetlands, floodplains and riparian buffer zones offer a proven solution to this growing environmental challenge.

Reduced Operational Costs and Maintenance

Landscaping with native plants improves the environment, bringing a feel of nature to urban, suburban and corporate settings by attracting a variety of birds, butterflies and other animals. Once established, native plants do not need fertilizers, herbicides or pesticides and require minimal watering, thus benefiting the environment and reducing maintenance costs.

Habitat Diversity

Species biodiversity continues to grow as a consideration on development projects. Vegetative diversity is the result of a well-executed restoration plan and drives biodiversity across the site. Conversely, invasive species and other risk factors can limit biodiversity. For projects in areas of concern or for those that have a RTE component, habitat quality can be a primary consideration.

Aesthetics and Natural Beauty

Many communities, corporations and campuses are seeking the values provided by natural spaces. Employees and residents derive value from biodiversity through leisure and lifestyle activities such as hiking, bird watching or natural history study. In this case, the project goals may be to create a "sense of place" that fosters healthy behavior, loyalty and overall well-being.

JFNew has 20 years of experience assisting clients in understanding, prioritizing and quantifying design intent for a wide range of ecological projects. Our ecologists, biologists, engineers and regulatory specialists bring practical experience to help formulate a feasible strategy to ensure a project's success.

Veteran's Memorial Park

South Holland, Illinois

Veteran's Memorial Park is a beautiful 21-acre park located along the south bank of the Little Calumet River, in South Holland, Illinois. It is the oldest and most active park in the community and most major community events are held here. Localized flooding within the community was of major concern and Veteran's Memorial Park offered an opportunity to help with flooding during heavy rain events. The solution was to develop a wetland basin to provide overflow storage and mitigate flooding issues.

The resulting basin serves as a filtration system for stormwater runoff to the surrounding park, Village and residential housing while also beautifying the park. This was accomplished by seeding approximately 3,000 square yards with native grasses and wildflowers, installing 9,000 native shoreline and wetland plugs, and positioning several large granite boulders and oak stumps for accent materials. To date, the native vegetation is flourishing in the wetland and regular maintenance and monitoring for the next several years will ensure successful establishment of the vegetation.

The Village recognizes, however, that communities cannot sustain healthy ecosystems without first educating individuals about the role and importance of biodiversity. The wetland basin area serves not only an aesthetic function, but also as a platform to educate visitors on the benefits of wetlands and their role in providing, protecting, preserving and sustaining a viable ecosystem. Veteran's Memorial Park and the Village of South Holland received the 2008 Conservation and Native Landscaping Award from the United States Environmental Protection Agency and Chicago Wilderness. The awards program recognizes conservation agencies, park districts, municipalities and corporations that have made extensive and creative use of native landscaping to support native species of plants and animals that comprise the region's outstanding biodiversity.

SITE ATTRIBUTES

Do you understand the natural conditions of your project site and have you had it professionally assessed?

Site Evaluation

With any project, it is important to assess the existing conditions of the site with a professional evaluation that considers such factors as soils, hydrology, topography and vegetative cover. The condition of adjacent properties should also be assessed. For example, a woodland restoration project involving the removal of invasive *Alliaria petiolata* (Garlic Mustard) may require different long-term management if the plant is abundant on an adjacent property.

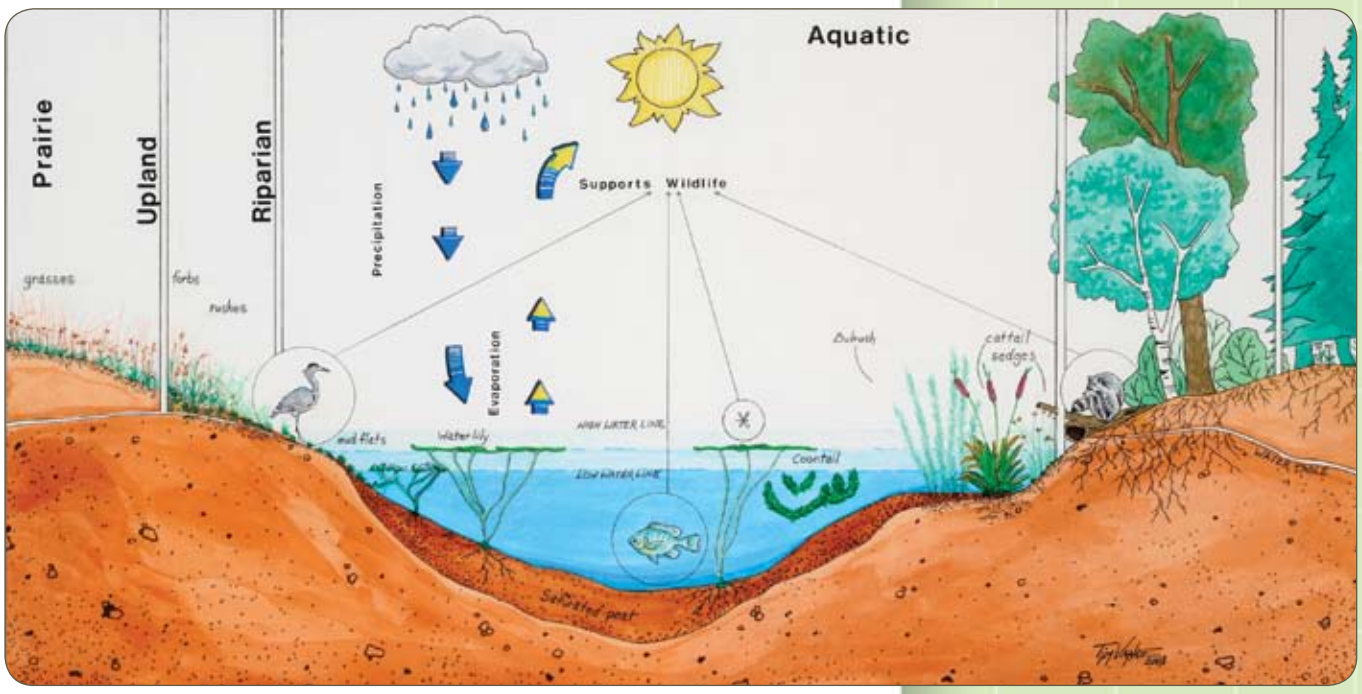
Additionally, a potential development site should be professionally evaluated to comprehensively assess existing natural resources such as wetlands, streams or other water sources, as well as RTE species or other protected natural or cultural resources. The presence of protected natural resources on a site can significantly impact planning, design, construction, management and overall cost of the development project. What to plant and where to plant it is often determined by the soil conditions, site hydrology and drainage, and existing vegetation (see illustration below). Understanding and accounting for these site attributes are critical to a successful project.

Regulatory Compliance & Permitting

Wetland, floodway, stream, endangered species or other natural resource constraints on a site often require regulatory compliance and permitting. Given the technical and legal aspects to natural resource regulations, it is critical to verify the presence of these jurisdictional areas and make plans to avoid or minimize adverse impacts and obtain approval from federal, state and local agencies as needed.

Special permits are required by regulatory agencies for construction in floodways, wetlands and other jurisdictional waters. Surveying for the presence of RTE species may also be required. Additionally, if a project receives any type of federal funds, permit or license, the federal agency must consider the effect of the project on archaeological sites, historic buildings or other cultural resources. We work regularly with the following agencies:

- County and municipal governments
- State agencies
- U.S. Army Corps of Engineers
- U.S. Environmental Protection Agency
- U.S. Fish and Wildlife Service



Soil Characteristics

Soil type is often the most important single factor in proper species selection. Determining a site's soil type (sand, clay, loam, etc.) and level of compaction are important first steps. Additional considerations are soil pH and microbiological content. Vegetation exists in balance with and is reliant on a wide range of microbes, fungi and bacteria. Soil amendment plans can help restore biological health to the soil and improve the vegetative growth.

Hydrology

Each site is unique with regard to ground and surface water flow, absorption, and retention. Understanding the patterns of water flow and flood potential of your site will help to determine a native landscaping specification that will succeed in the long run.

Existing Vegetation

Vegetation profiles for the site and adjacent sites can have a significant impact on the success of a native landscaping project. Was the site previously farmed? Is it an old field natural site? Are there exotic or invasive species on-site or nearby? Understanding the existing vegetation will help define site preparation needs.

Topography

Existing contours, slopes, aspect relative to sunlight, and other topographic features must be considered when preparing site erosion control, planting, and management plans. A topographically complex site may require much more detailed planning than a flat, homogenous site.

THE JFNew SITE ASSESSMENT SERVICE

Successful restoration projects begin with a thorough site assessment. Hire JFNew to provide a detailed plan before beginning your next project. Our experienced team of professionals will make recommendations on the following:

- **site preparation**
- **species composition**
- **installation techniques**
- **maintenance requirements**

Call the JFNew Native Plant Nursery at 574.586.2412 for more information. Native restoration projects can be difficult and challenging. JFNew has been providing restoration services for 20 years and will bring that experience to your next project.

Pheasant Branch Creek Streambank Restoration

Middleton, Wisconsin

The City of Middleton received a Non-Point Source Pollution Control Grant in 2006 to stabilize three severely eroded sections of Pheasant Branch Creek located in Middleton, Wisconsin. The project addressed one of the focus areas required under this funding, which was identified by several studies completed by various consultants as well as University of Wisconsin-Madison graduate students as a high priority area for stabilization and non-point source pollution control. In 2003, rootwads (a combination of hardwood logs and boulders) were installed on a 50' section of Pheasant Branch Creek just upstream of Park Street.

In 2005, a report by the University recommended rootwads as a favorable method for stabilizing the eroded area. Building off of this initial assessment and previous success, JFNew surveyed the channel in the project area and developed designs for project installation using a similar rootwad configuration. The goals of the project included stabilizing the severely eroded slope, and creating a habitat for aquatic invertebrate and vertebrate species.

Additionally, this project also provided a local example of rootwad use for streambank stabilization. While this technique is relatively new when compared to conventional rip-rap, it provided an exciting opportunity to merge ecology and engineering to benefit this important local resource. The restored section of the creek included a 40-foot high, steep slope down to the water line. Working with preliminary research conducted by University of Wisconsin-Madison engineering graduate students, JFNew completed channel surveys and developed a stabilization design utilizing bioengineering techniques. Following approval of the design, JFNew prepared and submitted the necessary permit applications. The final design incorporated rootwads to protect the eroding streambank while enhancing the aquatic habitat. These rootwads were "re-purposed" woody material removed from other parts of the conservancy area. After stabilizing the base of the slope, the remainder of the slope was seeded and planted with native species and stabilized using biodegradable erosion control fabric.

AESTHETICS

How do you want your project site to be perceived?

Many natural ecosystem projects succeed or fail based upon aesthetic appeal. The need for social acceptance, framed within culturally driven aesthetic expectations, is often identified as a crucial goal of urban restoration projects.

Visual Aspects

Perceptions of aesthetic value often conflict with the needs of an ecologically sound restoration. The conflict generally results in reduced ecosystem quality, and the impact of urban infrastructure reduces the opportunity to re-establish pre-existing natural systems. The true value of urban projects is determined by how well it can serve as an educational model for the community. Every project should include a deliberate design along with a strong educational component. Developing a social and cultural appreciation for natural ecosystems is essential to protecting our remaining natural areas and to accomplishing ecologically sound restoration projects where possible. (Source: University of Minnesota, St. Paul, Minnesota, Department of Horticultural Science, http://horticulture.cfans.umn.edu)

Co-Existence with Traditional Architecture and Landscaping

The focus of any urban restoration design project should be to create places where people want to live or spend time. The way a community is built is a critical factor in shaping the quality of life, accessibility, environmental quality and unique character of the community. The approach is fundamental to creating a community that is sustainable.

Architecture and landscape design also play an important role in encouraging or discouraging human interaction. Communities built with sidewalks, town squares, parks, open spaces and other public meeting places encourage people to interact. When the natural ecosystem is considered among all of this, the result can bring about a healthy and balanced environment — for humans, plants, animals and organisms alike. (Source: Sitarz, Daniel. Sustainable America. Earth Press, 1998)

Crossings at Wolf Creek

Plainfield, Illinois

When initial development plans for a mixed-use residential community called the Crossings at Wolf Creek were proposed, the Plainfield planners recognized the opportunity to use innovative and sustainable natural landscaping alternatives through the implementation of its "Green Village" Program. Working with the developer, environmentally-friendly solutions were identified to treat stormwater runoff and non-point sources of pollution. While managing water volume, the natural systems increase biodiversity and provide opportunities for recreation and education for local residents.

The resulting system includes over 25-acres of open space and a naturalized stormwater basin seeded with native prairie grass and wildflowers. Wetlands, filter strips and bioswales are all used throughout the development to filter and manage stormwater runoff. A natural areas management plan was developed specifically for these areas that included annual mowing, selective herbicide application, removal of non-desirable woody vegetation, and prescribed burning.

The efforts of the Village resulted in the 2007 Urban Conservation Community Award by Will/South Cook Soil and Water Conservation District. Additionally, Crossings at Wolf Creek received the 2008 Conservation and Native Landscaping Award from the United States Environmental Protection Agency and Chicago Wilderness. The Village hopes to further increase environmental awareness and sustainability by incorporating native vegetation and natural materials into open space, and improving water quality and habitat.

THE JFNew VALUE

JFNew's goal is to provide full-service ecological solutions, which help to improve the success of restoration projects. This model provides our clients with confidence that projects will be successful and lead to lower project costs and higher overall satisfaction. Regardless of the project size and budget, JFNew recognizes that the greatest likelihood of success is to develop site design, management and implementation plans that include considerations from the conceptual stages of the project all the way through to completion, including:

- **site assessment**
- **engineering and design**
- **permitting**
- **native plant and seed supply**
- **construction and implementation**
- **maintenance**
- **monitoring**

This stepped approach ensures full understanding of the site issues and construction methods, while allowing for coordination with the construction team. It also allows for landscaping issues and budgets to be developed and refined early in the project. JFNew has developed and applied this full-service approach by working on hundreds of properties ranging from small private lands, to large-scale restorations and master planned communities, to public parklands and open spaces, to linear corridors and federal lands. While the level of planning and detail may change with the scale of the project, the principles hold true regardless —integration of the implementation plan with the overall project scope maximizes the chances for success.

Please turn to the next page for a complete description of JFNew's Full-Service Ecological Solutions.

ECOLOGICAL SITE ASSESSMENTS AND STUDIES

- Wetland determination and delineations
- Ecological assessments
- Rare, Threatened and Endangered (RTE) species surveys
- Botanical surveys
- Wildlife and fisheries surveys
- GPS/GIS data collection and management
- Biological inventories
- Lake diagnostic studies
- Natural Environmental Policy Act (NEPA) documentation

CULTURAL RESOURCE MANAGEMENT

- Cultural resources literature review
- Section 106 consultation
- Phase I archaeological reconnaissance surveys
- Phase II archaeological evaluations
- Phase III archaeological mitigations and data recovery
- Construction monitoring
- Preparing artifacts and associated records for curation
- Historic document and archival research
- GPS/GIS mapping and predictive modeling
- Regulatory agency consultation

ECOLOGICAL ENGINEERING AND DESIGN

- Stormwater design
- Stream restoration design
- Wetland, lake and stream design
- Watershed management plans
- Bioengineering and shoreline stabilization
- Wastewater treatment wetlands
- Feasibility studies

MONITORING

- Hydrology
- Water quality
- Stream mitigation
- Wetland mitigation
- Botanical inventories
- Wildlife and fisheries surveys

PERMITTING

- U.S. Army Corps of Engineers (USACOE) 404
- State wetland permitting, 401 and isolated wetlands
- Great Lakes
- Coastal
- Lake regulations
- Floodways
- Endangered species

NATIVE PLANT AND SEED SUPPLY

- Woodland, prairie and wetland
- Custom seed mixes
- Live stakes, fascines and bioengineering materials
- Bare-root trees and shrubs
- Plant plugs and gallon stock
- Nesting boxes and habitat structures
- Custom contract growing

ECOLOGICAL CONSTRUCTION AND IMPLEMENTATION

- Wetland mitigation and restoration
- Stream mitigation and restoration
- Prairie establishment and restoration
- Bioengineering installation and shoreline stabilization
- Erosion control and slope stabilization
- Supply and installation of native plants
- Re-forestation
- Native landscaping
- Construction and construction oversight

SITE MANAGEMENT AND MAINTENANCE

- Invasive and exotic species control
- Prescribed burning
- Forestry management and timber stand improvement
- Restoration mowing and mechanical clearing
- Herbicide applications for ecological restoration
- Water level management and irrigation

FEDERAL SERVICES

GSA Schedule (Contract GS-10F-0284P):

- Environmental Planning Services and Documentation (SIN 899-1)
- Environmental Compliance Services (SIN 899-2)
- Waste Management Services (SIN 899-4)
- Geographic Information Systems (SIN 899-7)
- Remediation Services (SIN 899-8)

Federal Small Business (for NAICS Codes):

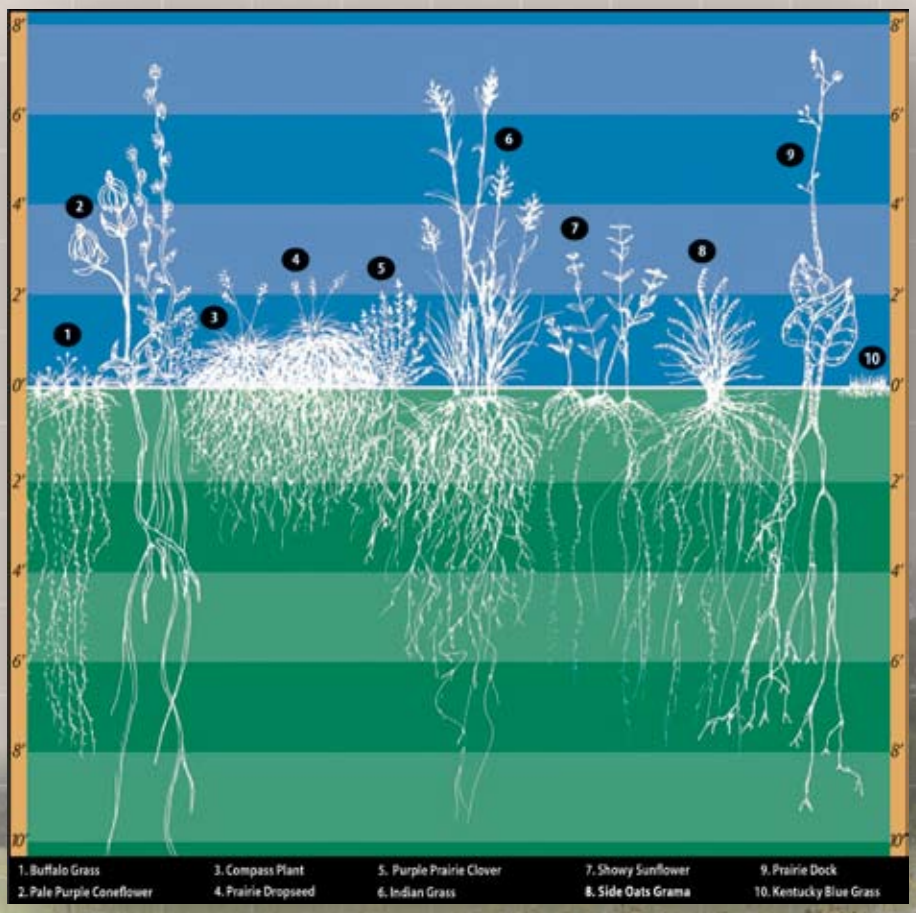
- 238910 Site Preparation
- 444220 Nursery
- 541330 Engineering
- 541620 Environmental Consulting
- 541710 Research and Development

THE "ROOT" VALUE OF NATIVE PLANTS

The area below ground where a plant's roots interface with the soil is called the rhizosphere, and many crucial symbiotic associations take place in this underground area. The root structure of native plants is deep and complex, enhancing infiltration during periods of heavy rain as well as drought. This helps stabilze the soil column and creates an environment favorable to building fertile soils.

To further emphasize these points, compare the root systems of Kentucky Blue Grass (see item 10 in chart below) to that of several common prairie species. The deeper a plant's roots, the healthier the microbial community and activity within the soil.

At JFNew, we use a mycorrhizal fungi mix that associates with and forms a symbiotic relationship with the roots of plants. This provides many essential functions including increased resistance to disease, drought and insect damage, as well as an enhanced ability to capture nutrients. Most of our plants are grown in 2.25"x5" round plugs and are inoculated with this fungus, which promotes the development of a vigorous root system.



UNDERSTANDING NATIVE PLANT ZONES

Species selection and installation techniques depend upon soil type, slope, water, plant material and the prevailing site conditions at the time of installation. The depth at which you install bare-root materials or plant plugs depends on the vegetative growth of the planting stock. If you plan to install emergent plant stock in deep waters, the material you plant must have sufficient vegetative growth to extend out of the water once planted.

Most wetland species will spread beyond the installed water depth. Certain species will spread into deep water, some will spread into shallow water and some will do both. Use the chart on the following pages as a general guideline to help you determine appropriate species and planting zones. This chart lists a selection of species that may be appropriate to plant in the indicated zones. The actual species selected for your project site will depend upon a number of factors, so it is important to have your site professionally assessed before planting begins.

Seasonal variations should be considered relative to water levels within a native planting zone. Each zone is dynamic. For example, a wet prairie will have several inches of water during the spring months but will experience a drying down during summer months.

DEFINING NATIVE PLANT ZONES

UPLAND DRY

Plants in this zone tend to have very deep root systems to draw moisture from the soil in the driest conditions. Once established, these plants can withstand very long periods of drought. These species typically prefer well-drained soils.

UPLAND MOIST

Similar to species found in the Upland Dry zone, these species tend to have intensive root systems and favor well-drained soils but can tolerate slightly moist soils.

SATURATED

Species found in the Saturated zone prefer to have "wet feet" and can tolerate some hydric soil conditions. These species can also survive short periods of flooding in the spring.

EMERGENT SHALLOW

Plants in this zone are usually found at pond edges or in permanently marshy areas. These species usually prefer rich, hydric soils.

EMERGENT DEEP

Plants in the Emergent Deep zone usually have their root systems and corms below the water level with the shoots emerging from the water.

AQUATIC

Able to tolerate water depths of three feet or more, plants in the Aquatic zone are usually found in areas with permanent standing water. Some species, such as those in the genus *Potamogeton* (Pondweed), do not emerge from the water but provide habitat for invertebrates and help oxygenate the water.

ZONE: UPLAND DRY

18″+ ABOVE WATER LEVEL

Potential Mixes: Economy Prairie, Basic Prairie, Low-Profile Prairie, Annual & Perennial Forbs

CHARACTERISTIC SPECIES

Botanical Name	Common Name
Amorpha canescens	Lead Plant
Andropogon gerardii	Big Bluestem
Anemone cylindrica	Thimbleweed
Anemone virginiana	Tall Anemone
Aquilegia canadensis	Wild Columbine
Asclepias syriaca	Common Milkweed
Asclepias tuberosa	Butterfly Weed
Asclepias verticillata	Whorled Milkweed
Aster oolentangiensis	Sky-Blue Aster
Baptisia bracteata	Cream Wild Indigo
Bouteloua curtipendula	Side-Oats Grama
Cacalia atriplicifolia	Pale Indian Plantain
Ceanothus americanus	New Jersey Tea
Chamaecrista fasciculata	Partridge Pea
Coreopsis lanceolata	Sand Coreopsis
Coreopsis palmata	Prairie Coreopsis
Dalea purpurea	Purple Prairie Clover
Desmanthus illinoensis	Illinois Sensitive Plant
Desmodium illinoense	Illinois Tick Trefoil
Echinacea pallida	Purple Coneflower
Elymus canadensis	Canada Wild Rye
Euphorbia corollata	Flowering Spurge
Geum triflorum	Prairie Smoke
Helianthus mollis	Downy Sunflower
Helianthus occidentalis	Western Sunflower
Koeleria pyramidata	June Grass
Liatris aspera	Rough Blazing Star
Lupinus perennis	Wild Lupine
Monarda fistulosa	Wild Bergamot
Monarda punctata	Horse Mint
Parthenium integrifolium	Wild Quinine
Rudbeckia hirta	Black-Eyed Susan
Schizachyrium scoparium	Little Bluestem
Silphium laciniatum	Compass Plant
Solidago rigida	Stiff Goldenrod
Solidago speciosa	Showy Goldenrod

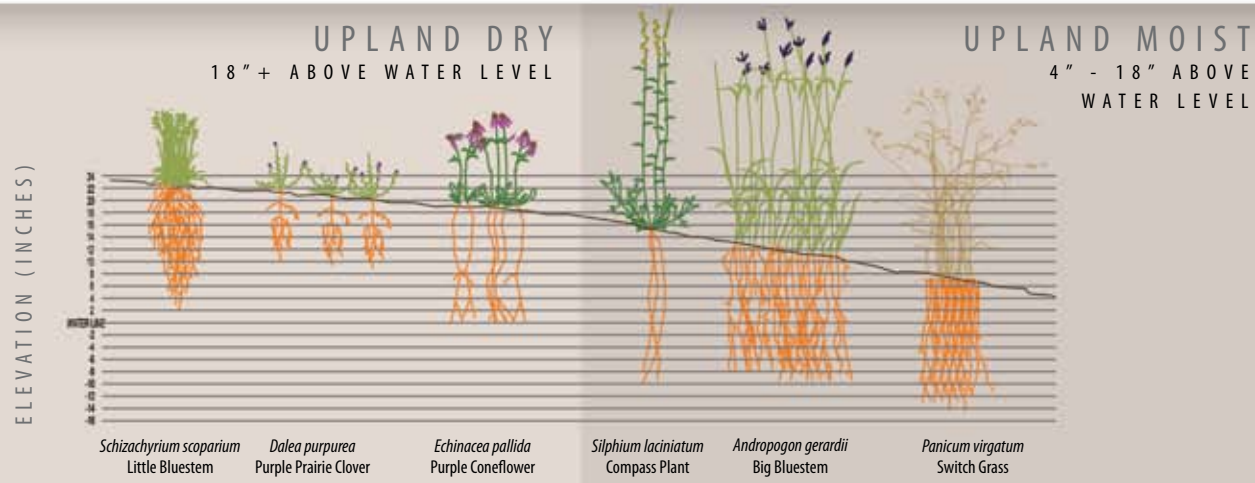
ZONE: UPLAND MOIST

4″- 18″ ABOVE WATER LEVEL

Potential Mixes: Basic Prairie, Mesic-to-Dry Tallgrass Prairie, Wet-to-Mesic Tallgrass Prairie, Slope Stabilization

CHARACTERISTIC SPECIES

Botanical Name	Common Name
Allium cernuum	Nodding Onion
Andropogon gerardii	Big Bluestem
Aquilegia canadensis	Wild Columbine
Asclepias syriaca	Common Milkweed
Asclepias verticillata	Whorled Milkweed
Aster ericoides	Heath Aster
Aster laevis	Smooth Blue Aster
Aster novae-angliae	New England Aster
Baptisia australis	Blue Wild Indigo
Baptisia lactea	White Wild Indigo
Cacalia atriplicifolia	Pale Indian Plantain
Chamaecrista fasciculata	Partridge Pea
Coreopsis tripteris	Tall Coreopsis
Desmanthus illinoensis	Illinois Sensitive Plant
Desmodium illinoense	Illinois Tick Trefoil
Dodecatheon meadia	Shooting Star
Echinacea purpurea	Broad-Leaved Purple Coneflower
Elymus canadensis	Canada Wild Rye
Elymus hystrix	Bottlebrush Grass
Helianthus grosseserratus	Sawtooth Sunflower
Heliopsis helianthoides	False Sunflower
Liatris pycnostachya	Prairie Blazing Star
Liatris spicata	Marsh Blazing Star
Monarda fistulosa	Wild Bergamot
Panicum virgatum	Switch Grass
Penstemon digitalis	Foxglove Beard Tongue
Physostegia virginiana v. *arenaria*	Prairie Obedient Plant
Ratibida pinnata	Yellow Coneflower
Rudbeckia subtomentosa	Sweet Black-Eyed Susan
Rudbeckia triloba	Brown-Eyed Susan
Schizachyrium scoparium	Little Bluestem
Silene regia	Royal Catchfly
Silphium laciniatum	Compass Plant
Silphium terebinthinaceum	Prairie Dock
Solidago rigida	Stiff Goldenrod
Sorghastrum nutans	Indian Grass
Sporobolus heterolepis	Prairie Dropseed
Tradescantia ohiensis	Common Spiderwort
Veronicastrum virginicum	Culver's Root
Zizia aurea	Golden Alexanders



ZONE: SATURATED

0″- 4″ ABOVE WATER LEVEL

Potential Mixes: Sedge Meadow, Wetland Edge, Wooded Wetland Establishment, Stormwater, Swale

CHARACTERISTIC SPECIES

Botanical Name	Common Name
Agalinis tenuifolia	Slender False Foxglove
Alisma subcordatum	Common Water Plantain
Anemone canadensis	Meadow Anemone
Angelica atropurpurea	Great Angelica
Asclepias incarnata	Swamp Milkweed
Aster novae-angliae	New England Aster
Aster puniceus	Bristly Aster
Aster umbellatus	Flat-Top Aster
Bidens cernua	Nodding Bur Marigold
Calamagrostis canadensis	Bluejoint Grass
Caltha palustris	Marsh Marigold
Carex comosa	Bristly Sedge
Carex frankii	Bristly Cattail Sedge
Carex lurida	Bottlebrush Sedge
Carex stricta	Common Tussock Sedge
Carex vulpinoidea	Brown Fox Sedge
Chelone glabra	Turtlehead
Eupatorium maculatum	Spotted Joe-Pye Weed
Eupatorium perfoliatum	Common Boneset
Filipendula rubra	Queen of the Prairie
Gentiana andrewsii	Bottle Gentian
Glyceria striata	Fowl Manna Grass
Helenium autumnale	Sneezeweed
Iris virginica	Blue Flag
Juncus effusus	Common Rush
Juncus torreyi	Torrey's Rush
Leersia oryzoides	Rice Cut Grass
Liatris spicata	Marsh Blazing Star
Lobelia cardinalis	Cardinal Flower
Lobelia siphilitica	Great Blue Lobelia
Ludwigia alternifolia	Seedbox
Panicum virgatum	Switch Grass
Pycnanthemum virginianum	Common Mountain Mint
Sagittaria latifolia	Common Arrowhead
Scirpus atrovirens	Dark Green Rush
Scirpus pungens	Chairmaker's Rush
Scirpus validus	Great Bulrush
Senna hebecarpa	Wild Senna
Silphium perfoliatum	Cup Plant
Spartina pectinata	Prairie Cord Grass
Spiraea alba	Meadowsweet
Verbena hastata	Blue Vervain
Verbesina alternifolia	Wingstem
Vernonia gigantea	Smooth Tall Ironweed

ZONE: EMERGENT SHALLOW

0″- 4″ BELOW WATER LEVEL

Potential Mixes: Wetland Edge, Emergent Wetland

CHARACTERISTIC SPECIES

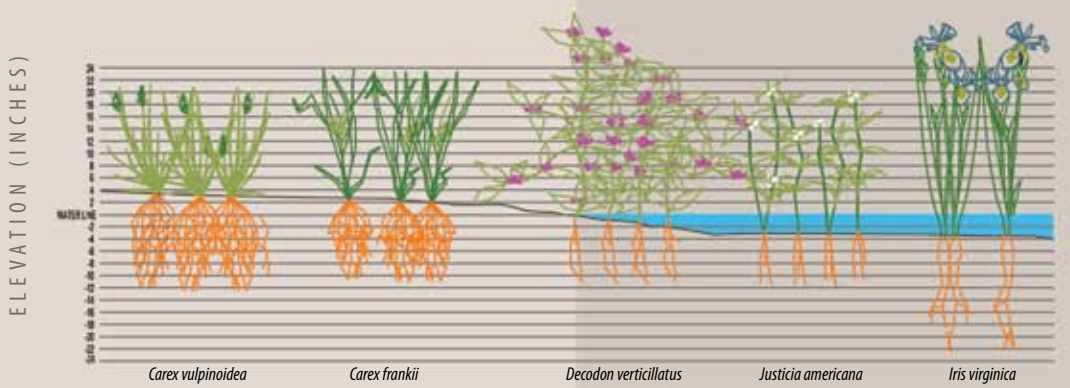
Botanical Name	Common Name
Acorus calamus	Sweet Flag
Alisma subcordatum	Common Water Plantain
Asclepias incarnata	Swamp Milkweed
Decodon verticillatus	Swamp Loosestrife
Eleocharis ovata	Blunt Spike Rush
Eupatorium maculatum	Spotted Joe-Pye Weed
Hibiscus laevis	Smooth Rose Mallow
Hibiscus moscheutos	Swamp Rose Mallow
Iris virginica	Blue Flag
Justicia americana	Water Willow
Leersia oryzoides	Rice Cut Grass
Lobelia cardinalis	Cardinal Flower
Mimulus ringens	Monkey Flower
Peltandra virginica	Arrow Arum
Rosa palustris	Swamp Rose
Sagittaria latifolia	Common Arrowhead
Scirpus acutus	Hard-Stemmed Bulrush
Scirpus fluviatilis	River Bulrush
Scirpus pungens	Chairmaker's Rush
Scirpus validus	Great Bulrush
Sparganium eurycarpum	Common Bur Reed

SATURATED

0″ - 4″ ABOVE WATER LEVEL

EMERGENT SHALLOW

0″ - 4″ BELOW WATER LEVEL



ZONE: EMERGENT DEEP

4″ - 18″ BELOW WATER LEVEL

Potential Mixes: Emergent Wetland, Custom Seed Mix, Bare-Root Stock

CHARACTERISTIC SPECIES

Botanical Name	Common Name
Acorus calamus	Sweet Flag
Carex lacustris	Common Lake Sedge
Cephalanthus occidentalis	Buttonbush
Decodon verticillatus	Swamp Loosestrife
Hibiscus laevis	Smooth Rose Mallow
Hibiscus moscheutos	Swamp Rose Mallow
Peltandra virginica	Arrow Arum
Pontederia cordata	Pickerel Weed
Potamogeton natans	Common Pondweed
Potamogeton pectinatus	Sago Pondweed
Sagittaria latifolia	Common Arrowhead
Scirpus acutus	Hard-Stemmed Bulrush
Scirpus fluviatilis	River Bulrush
Scirpus validus	Great Bulrush
Sparganium americanum	American Bur Reed
Zizania aquatica	Wild Rice

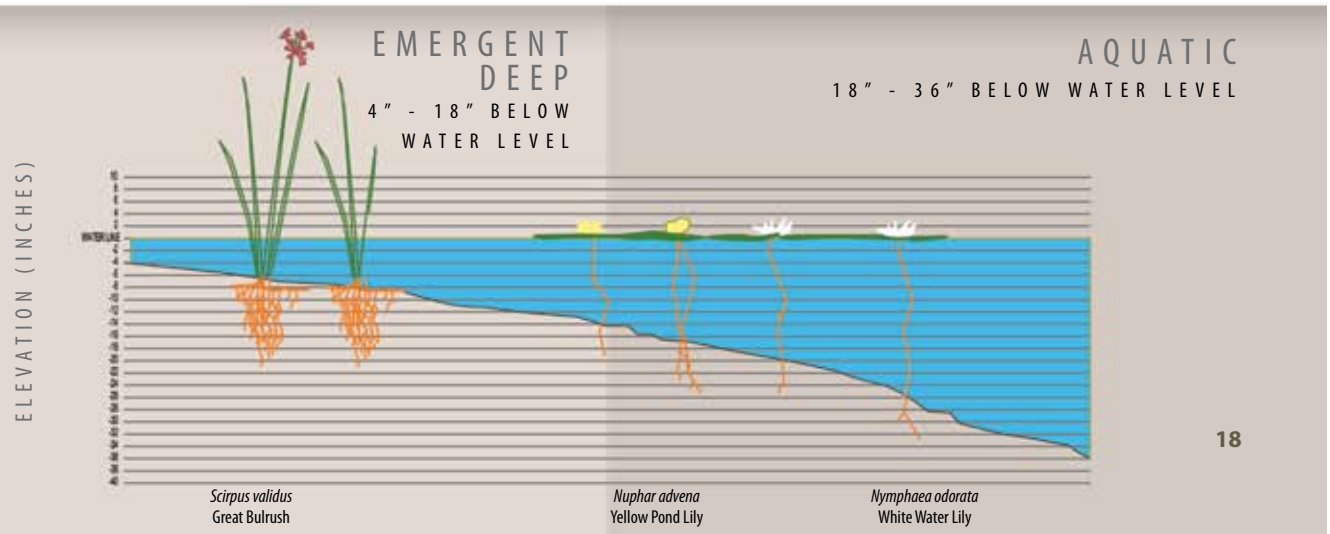
ZONE: AQUATIC

18″ - 36″ BELOW WATER LEVEL

Potential Mixes: Custom Seed Mix, Bare-Root Stock

CHARACTERISTIC SPECIES

Botanical Name	Common Name
Cephalanthus occidentalis	Buttonbush
Nelumbo lutea	Lotus
Nuphar advena	Yellow Pond Lily
Nymphaea odorata	White Water Lily
Potamogeton natans	Common Pondweed
Potamogeton pectinatus	Sago Pondweed
Zizania aquatica	Wild Rice



NATIVE PLANT ZONE: UPLAND DRY

Asclepias syriaca Common Milkweed

Dry-to-Mesic Prairie Forb

Butterflies and scores of insects rely on this plant for food. The huge purple-pink blossoms are gorgeous and the seed pods make for winter interest. This plant grows 2′-4′ tall in full sun and well-drained soils.

NATIVE PLANT ZONE: UPLAND DRY

Baptisia bracteata Cream Wild Indigo

Dry Prairie / Savanna Forb

This member of the pea family is low-growing up to 3′. Compact in shape with beautiful groups of cream blossoms, this plant grows well in most well-drained soils. We recommend installing plugs or pots as it can take many years to develop from seed. This plant is a must for your garden.

NATIVE PLANT ZONE: UPLAND DRY

Bouteloua curtipendula Side-Oats Grama

Dry Prairie Grass

A delicate-looking grass of dry prairies, this 2′-4′ tall species prefers full sun and blooms from mid-summer to mid-fall. It produces small green flowers maturing to a purplish color with red stamens, and its oat-like seeds attract birds.

NATIVE PLANT ZONE: UPLAND DRY

Coreopsis lanceolata Sand Coreopsis

Dry Prairie / Savanna Forb

Growing up to 2′ in height, this attractive plant with its 4″-6″ long, lance-shaped leaves is a bright addition to the prairie landscape. Preferring full sun and dry soils, this species produces 1″-2.5″ diameter yellow flower heads from late spring to late summer.

NATIVE PLANT ZONE: UPLAND DRY

Echinacea pallida Purple Coneflower

Dry Prairie Forb

A wonderful cousin of the well-known *Echinacea purpurea*, this species has beautiful pale purple ray flowers whose heads range from 2″-3.5″ in diameter. The long ray flowers tend to droop, creating a visually stunning look. Growing in full sun and dry to medium soils, this species blooms late spring to late summer. It is a favorite nectar source for butterflies and provides seeds for birds.

NATIVE PLANT ZONE: UPLAND DRY

Coreopsis palmata Prairie Coreopsis

Dry Prairie / Savanna Forb

This plant has interesting and attractive foliage. It prefers dry soils and sunny to partially sunny conditions. Its bright yellow flower heads are 1"-1.5" in diameter and appear from early to late summer. It grows up to 2' in height.

NATIVE PLANT ZONE: UPLAND DRY

Dalea purpurea Purple Prairie Clover

Dry-to-Mesic Prairie Forb

This member of the pea family enriches the soil by pulling nitrogen from the air. The 2" rosy purple spike sits atop its 12"-24" tall stem and the leaves provide a food source for sulfur butterfly offspring. It grows best in full sun and prefers average to dry soil conditions. Its taproot can reach 5' in depth.

NATIVE PLANT ZONE: UPLAND DRY

Geum triflorum Prairie Smoke

Dry Prairie Forb

In May or June, massed flowers of this plant turn fields pink. The seed heads are showy, pink 2" plumes that gradually turn to gray. This is a beautiful plant that is usually less than a foot tall, with numerous basal leaves and hairy stems. This plant will flower after its second year if grown from seed; if grown from division it will flower its first year.

NATIVE PLANT ZONE: UPLAND DRY

Liatris aspera Rough Blazing Star

Dry Prairie / Savanna Forb

Found in dry prairies and sandy savannas, this attractive plant grows 2'-3' tall when planted in a dry, sunny, well-drained soil. Individual tufts of small pink flowers form a 1' long spike at the end of a 3' stem. From its namesake, this plant is a star among the late-season bloomers.

NATIVE PLANT ZONE: UPLAND DRY

Helianthus mollis Downy Sunflower

Dry-to-Mesic Prairie Forb

One of the many native sunflowers, this plant is a finch favorite. Growing up to 4' tall, this species grows in a wide range of soils. From sand to well-drained loams, this proven performer puts on a great display of yellow blooms. Songbirds are attracted to the seed heads and use them as a food source.

THE JFNew NATIVE PLANT NURSERY

SEED & PLANT QUALITY

Our native seed is tested at independent laboratories for purity and germination. This test determines the Pure Live Seed (PLS) ratio and measures the purity and viability percentage of a given seed lot, which gives our clients the highest quality seed possible for restoration and landscape projects.

Additionally, our plant plugs are grown in 2.25" x 5" round plugs and are inoculated with a mycorrhizal fungi mix. This special plug configuration promotes the development of a vigorous root system, minimizing the tendency of a plant to become root bound *(Note: minimum order per species for wholesale pricing is one flat. All wholesale plant plug orders will be sold in whole-flat increments only. Quantity discounts may apply for larger orders).*

ONGOING RESEARCH

We work closely with other Great Lakes native plant growers to provide native seed and plants throughout the region. Not all species offered in our catalog may be specifically native to each of the states or ecoregions we serve. However, we promise to work closely with you to ensure desired native genotype plants and seed materials are available for your project. Additionally, JFNew can customize seed mixes with species native to your project's ecoregion.

The JFNew Native Plant Nursery is committed to quality: commited to the quality of the service we deliver to clients and committed to employing the highest quality people — experts who are passionate about their profession.

We know there is a direct correlation between the quality of our staff and the quality of our native plant material. The dedication of the entire nursery team is made evident through our rigorous quality assurance and quality control programs in the areas of native seed production, native plant growing and ongoing research.

JFNew has become a member of One Percent For The Planet, and in doing so has committed to contribute 1% of our Native Plant Nursery sales to environmental causes.

1% FOR THE PLANET MEMBER

All botanical nomenclature within this catalog is cross-referenced with the *Manual of Vascular Plants of Northeastern United States and Adjacent Canada* by Henry A. Gleason and Arthur Cronquist (1991).

NATIVE PLANT ZONE: UPLAND DRY

Lupinus perennis Wild Lupine

Dry Prairie / Savanna Forb

This plant produces an elongated cluster of bluish flowers. With interesting silvery-green foliage, this species can be found in full sun prairies to partially shaded savannas. Blooming from mid-spring to early summer, this 1'-2' tall plant offers bees an early nectar source in the spring.

NATIVE PLANT ZONE: UPLAND DRY

Monarda punctata Horse Mint

Dry Prairie Forb

A member of the mint family, this sand-loving species grows 1'-2' tall in full sun. The unique leaves and flowers of this plant attract a multitude of butterflies and bees to its rich nectar. Deer resistant, this plant is great for sandy dry areas.

NATIVE PLANT ZONE: UPLAND DRY

Parthenium integrifolium Wild Quinine

Dry Prairie Forb

With unusual flower heads crowded in domed clusters, and with attractive basal leaves, this plant will provide ample garden enjoyment throughout the summer season. Preferring well-drained soil, this plant grows to 3' tall and provides excellent fragrant dried flowers.

NATIVE PLANT ZONE: UPLAND DRY

Rudbeckia hirta Black-Eyed Susan

Dry-to-Mesic Prairie Forb

A garden favorite, this plant produces beautiful yellow flower heads up to 3" wide with a dark purplish-brown disk in the center. Growing 1'-3' high, each stem is covered with fine hairs. It prefers dry to moist soils and full to partial sun.

NATIVE PLANT ZONE: UPLAND DRY

Koeleria pyramidata June Grass

Dry Prairie / Savanna Grass

This slender grass with showy, whitish, spike-like panicles and ribbon-like leaves is nice for landscaping in masses. Blooming from May to June, this plant prefers well-drained soil in full sun to partial shade. Growing to heights of 2' tall, this plant provides excellent cut dried flowers.

NATIVE PLANT ZONE: UPLAND DRY

Solidago speciosa Showy Goldenrod

Dry Prairie / Savanna Forb

This species has a branching flower cluster with numerous, relatively large yellow flower heads. It blooms mid-summer to early fall, preferring full-to-partial sun and dry soils. Contrary to popular belief, goldenrod species do not induce seasonal allergies. It is the wind-borne pollen from ragweed that causes such allergies.

NATIVE PLANT ZONE: UPLAND MOIST

Allium cernuum Nodding Onion

Mesic Prairie Forb

White to pink flowers highlight this short member of the onion family. Growing to 2′ tall, this is a good choice for low-profile areas. A bulb forming plant that grows in moist, rich soils and full sun, this plant looks best planted in mass.

NATIVE PLANT ZONE: UPLAND MOIST

Aster laevis Smooth Blue Aster

Dry-to-Mesic Prairie / Savanna Forb

A beautiful late summer to mid-fall bloomer, this smooth-stemmed aster species produces blue to violet flower heads that can be up to 1″ in diameter. A perfect plant for dry fields and open woods, this plant can grow up to 4′ tall.

NATIVE PLANT ZONE: UPLAND MOIST

Baptisia lactea White Wild Indigo

Mesic Prairie Forb

A member of the pea family, this species can tolerate medium soil moisture and produces bright white 1″ long flowers on a loose stalk. Its 3-leaflet leaves provide an attractive bluish-green foliage. It grows from 2′-4′ in height and flowers during early summer.

NATIVE PLANT ZONE: UPLAND DRY

Silphium laciniatum Compass Plant

Dry-to-Mesic Prairie Forb

One of the most characteristic and noticeable plants of the tallgrass prairie, this plant has large yellow sunflower-like flower heads and huge, deeply lobed leaves, mostly at the base which tend to orient north to south. This 7′-8′ tall June to September blooming plant prefers full sun, is deeply rooted and very drought tolerant. It is an excellent food source for songbirds and butterflies.

NATIVE PLANT ZONE: UPLAND MOIST

Coreopsis tripteris Tall Coreopsis

Mesic Prairie Forb

Large 2" flower heads appear on tall, branching stems in late summer. This excellent border plant has leaves with three elongate leaflets and prefers moist soil. The giant of the genus *Coreopsis*, it grows 6'-8' tall and flowers from July to August. It is extremely drought tolerant and deeply rooted.

NATIVE PLANT ZONE: UPLAND MOIST

Dodecatheon meadia Shooting Star

Mesic Prairie Forb

The white to pink flowers with petals swept backward like the tail of a comet, with light green oval leaves at the base, make for an elegant spring wildflower. Blooming briefly from April to May, this 12"-18" tall plant goes dormant after setting seed and performs best in well-drained soil.

NATIVE PLANT ZONE: UPLAND MOIST

Elymus canadensis Canada Wild Rye

Dry-to-Mesic Prairie Grass

Also called "nodding wild rye" because the seed heads droop downward, this 2'-5' tall July to August blooming perennial adapts to a wide range of soils. Its leaf blades are flat or folded, 4"-12" long, narrowing towards the base. Preferring average, well-drained soils in full sun, it can be easily grown from seed.

NATIVE PLANT ZONE: UPLAND MOIST

Elymus hystrix Bottlebrush Grass

Mesic Woodland / Forest Grass

This medium shade grass has a seed head that resembles a bottlebrush. In natural conditions you can find this growing in dry well-drained areas with filtered light. The 3'-5' grass works well under large trees, allowing some light to reach the soil line.

NATIVE PLANT ZONE: UPLAND MOIST

Baptisia australis Blue Wild Indigo

Dry-to-Mesic Prairie Forb

A member of the pea family, this deep-rooted legume with bushy habit and large showy spikes of deep indigo blue flowers makes its blooming debut during late spring. Very attractive smooth, rounded, blue-green leaflets and black seed pods make ideal dried arrangements. This plant prefers average soil, is flood and drought tolerant and grows 3'-5' tall.

NATIVE PLANT ZONE: UPLAND MOIST

Heliopsis helianthoides False Sunflower

Mesic Prairie / Woodland Edge Forb

A robust native species, this plant produces numerous, showy yellow flower heads 1.5"-2.5" in diameter. It has large, triangular-shaped, toothed leaves. Growing in full to partial sun, this species prefers dry-to-moist soils. Blooming mid summer to early fall, this species grows up to 6' high.

NATIVE PLANT ZONE: UPLAND MOIST

Physostegia virginiana v. *arenaria* Prairie Obedient Plant

Mesic Prairie Forb

A beautiful plant with 1" long, pinkish to lavender, tubular flowers in a spike on top of the plant, it is called "obedient" because its flowers remain for a while in whatever position they are moved. Preferring medium soils and full sun, this 2'-5' tall plant blooms in late summer to early fall.

NATIVE PLANT ZONE: UPLAND MOIST

Ratibida pinnata Yellow Coneflower

Mesic Prairie Forb

With its long yellow, drooping ray flowers, this pretty plant creates an impressive display when in full bloom. The disc of each flower head is greenish-grey to brown in color and gives off an anise-like odor when crushed. Reaching heights of up to 6', this species prefers full sun and dry-to-moist soils.

NATIVE PLANT ZONE: UPLAND MOIST

Rudbeckia triloba Brown-Eyed Susan

Mesic Prairie Forb

Similar to its cousins, this late summer to mid-autumn blooming beauty is ideal for attracting songbirds and butterflies. Its branching stems are covered with 1" yellow ray flowers with dark disks and are set off by its attractive deep green foliage. This plant thrives in well-drained soil and full sun to partial shade and grows to a height of 4'-5' tall.

NATIVE PLANT ZONE: UPLAND MOIST

Liatris pycnostachya Prairie Blazing Star

Mesic Prairie Forb

Similar to its sister plant *Liatris aspera* (Rough Blazing Star), this plant can send unbranched stems 5' tall, forming solid, narrow spiked pink clusters of flower heads. This late summer blooming plant prefers full sun and soil that is dry to moist.

NATIVE PLANT ZONE: UPLAND MOIST

Silene regia Royal Catchfly

Dry-to-Mesic Prairie Forb

This is an elegant prairie plant that has showy red, star-shaped flowers on tall branching stems with mostly basal leaves. This breathtaking beauty prefers well-drained soil in full sun or partial shade and grows to heights of 3'-4' tall. It is sure to attract hummingbirds to any garden between July and August.

NATIVE PLANT ZONE: UPLAND MOIST

Silphium terebinthinaceum Prairie Dock

Dry-to-Mesic Prairie Forb

The large leaves of this deep rooted plant are always cool to the touch. In August, the stalks set clusters of yellow sunflower heads. With leaves 2' tall and stems that reach 8'-10', this great plant attracts butterflies, birds and wildlife. Growing in soils that range from moist to dry, this unique plant is a prairie favorite.

NATIVE PLANT ZONE: UPLAND MOIST

Solidago rigida Stiff Goldenrod

Dry-to-Mesic Prairie Forb

This goldenrod forms a rosette of gray-green leaves up to 1' long and 3" wide. In late summer, its 4' stalk is topped by a 4"-6", flat-topped cluster of small, yellow flower heads. It is sure to provide aesthetically pleasing color in the garden and is well-received as a cut flower.

NATIVE PLANT ZONE: UPLAND MOIST

Veronicastrum virginicum Culver's Root

Mesic Prairie Forb

A gorgeous wildflower of medium moisture soils, this 3'-6' tall plant can live in conditions from full sun to partial shade. Blooming from early to late summer, small white tubular flowers cover multiple floral spikes. Its leaves, in whorls of 3 to 7, add to this species' charm. It is much sought after by native bees.

NATIVE PLANT ZONE: UPLAND MOIST

Sporobolus heterolepis Prairie Dropseed

Mesic Prairie Grass

A regal-looking grass of the prairie, this species grows 2'-4' in height. It prefers dry to mesic soils in sunny areas. Blooming in late summer, this clump-forming plant turns various shades of gold, bronze and red in the late fall.

NATIVE PLANT ZONE: UPLAND MOIST

Zizia aurea Golden Alexanders

Mesic Prairie Forb

A wonderful early season bloomer, this member of the parsley family grows to 3′ in height. It prefers medium soil moisture and can be found in conditions ranging from full sun to shade. With its attractive foliage and yellow flower head in a flattish umbel, this plant blooms in mid-spring to early summer. It is a food source for several butterfly species.

NATIVE PLANT ZONE: SATURATED

Chelone glabra Turtlehead

Wet Prairie / Marsh / Swamp Forb

This plant receives its common name from the terminal clusters of creamy-white showy tubular flowers shaped like turtle heads. It often blooms in its first year from late summer to mid autumn, growing 3′-4′ in height. It tolerates moist to wet soil but does well in average garden soil.

NATIVE PLANT ZONE: UPLAND MOIST

Tradescantia ohiensis Common Spiderwort

Dry-to-Mesic Prairie / Savanna Forb

A spectacular plant of prairies and savannas, this 2′-4′ tall plant prefers medium-to-dry soil moisture and full to partial sun. Blooming in late spring to early fall, the delicate bluish-purple 1.5″ wide flowers emerge in the early morning and often "melt" away in the hot afternoon sun.

THE JFNew SITE ASSESSMENT SERVICE

Successful restoration projects begin with a thorough site assessment. Hire JFNew to provide a detailed plan before beginning your next project. Our experienced team of professionals will make recommendations on the following:

- **site preparation**
- **species composition**
- **installation techniques**
- **maintenance requirements**

Call the JFNew Native Plant Nursery at 574.586.2412 for more information. Native restoration projects can be difficult and challenging. JFNew has been providing restoration services for 20 years and will bring that experience to your next project.

NATIVE PLANT ZONE: SATURATED

Eupatorium maculatum Spotted Joe-Pye Weed

Wet Prairie Forb

A superb butterfly-attracting species, this 4'-7' tall plant produces large, branching clusters of purplish-pink flower heads in mid-summer to mid-fall. Named for the fact that its stem often is purple spotted, this species prefers wet soils and full sun. It is found in wet meadows and on the edges of ponds, lakes and streams.

NATIVE PLANT ZONE: SATURATED

Eupatorium perfoliatum Common Boneset

Wet Prairie Forb

This mid-summer to early autumn blooming plant produces loose, flat-topped heads of white disk flowers. Mostly found in moist meadows, this forb will also perform well in drier situations. Reaching heights of 2'-4', this late emerger makes up for its slow start with a rapid burst of growth.

NATIVE PLANT ZONE: SATURATED

Glyceria striata Fowl Manna Grass

Wet Prairie / Mesic-to-Wet Forest Grass

A native perennial with short rootstocks, this grass produces erect leafy shoots in loose tufts. It is found in moist meadows, pastures, ditches and wet-to-mesic forests. The two-ranked, blue-green leaves of this species are easily recognizable.

NATIVE PLANT ZONE: SATURATED

Juncus torreyi Torrey's Rush

Wet Prairie Rush

One of the most distinctive rushes, with dense bunches of round seed heads borne at the tips of erect stems, this plant performs best in damp soils and adds structure and interest in hard-to-landscape situations. Blooming from June to July, this dark green plant with brown seed heads grows 1'-3' tall.

NATIVE PLANT ZONE: SATURATED

Filipendula rubra Queen of the Prairie

Wet Prairie Forb

Its common name says it all! A member of the rose family, this remarkable plant, with its delicate foliage, produces clusters of pink flowers that have a wonderful fragrance. Blooming in mid-summer, this wildflower prefers wet soils and full sun and grows 3'-6' tall.

NATIVE PLANT ZONE: SATURATED

Leersia oryzoides Rice Cut Grass

Wet Prairie / Woodland Grass

This 3'-5' tall plant is used for streambank stabilization and in vegetated swales. Mature plants tolerate seasonal to permanent flooding and prefer moist to saturated soils in full to partial sun. The plants seeds and roots are eaten by waterfowl and songbirds, and also provide cover for many reptiles, amphibians, insects and fish.

NATIVE PLANT ZONE: SATURATED

Pycnanthemum virginianum Common Mountain Mint

Mesic-to-Wet Prairie Forb

A member of the mint family, this pleasant-smelling plant prefers medium to wet soils and full to partial sun. It grows 1'-3' high and blooms in early to late summer. It produces many round flower heads, each with numerous small, white flowers. It is a favorite among native bees and wasps.

NATIVE PLANT ZONE: SATURATED

Scirpus pungens Chairmaker's Rush

Emergent Marsh / Lake Edge Sedge

This plant might first be encountered as a stand of dark-green triangular stems growing in the mud of a lake shore. Considered a bulrush, stems are sharply triangular and 3' tall with leaf blades growing up to 8" long. A cluster of 1 to 5 brown spikelets form near the tip of the stem.

NATIVE PLANT ZONE: SATURATED

Senna hebecarpa Wild Senna

Mesic-to-Wet Prairie / Floodplain Forb

This interesting member of the pea family has clusters of yellow flowers in July and August. Found in moist-to-wet conditions, Wild Senna can handle seasonal flooding. It will also do well in medium soils, growing up to 6' tall. Seed pods make for winter interest and a food source for wildlife.

NATIVE PLANT ZONE: SATURATED

Helenium autumnale Sneezeweed

Wet Prairie Forb

This plant prefers full to partial sun and blooms mid-summer to mid-fall. It has reflexed, yellow, wedge-shaped ray flowers that are three-lobed. The base of each lance-shaped leaf extends down the stem, making the plant's stem appear to be winged like the shaft of an arrow. Growing 3'-5' tall, the plant gets its name from the fact that the dried flower heads and seeds induce sneezing.

NATIVE PLANT ZONE: SATURATED

Silphium perfoliatum Cup Plant

Mesic-to-Wet Prairie Forb

This plant is unique because of its huge perfoliate leaves that actually form a "cup" (where the stem and leaf meet) from which goldfinches and other songbirds drink. Several large 4"-5" yellow daisy-like flower heads bloom atop the stem, taking the plant to heights of up to 8' tall in full sun conditions. Cup Plant thrives in average soil.

NATIVE PLANT ZONE: SATURATED

Spiraea alba Meadowsweet

Wet Prairie Shrub

Meadowsweet is a small shrub found growing in damp meadows, ditches and bogs, at the edges of ponds, on river banks and in damp open woodlands. The creeping rootstock sends up a reddish, angular stem, up to 2'-6' tall. The small, white five-petaled flowers grow in clusters from June to August.

NATIVE PLANT ZONE: SATURATED

Verbena hastata Blue Vervain

Wet Prairie Forb

A wetland wildflower with branching flower spikes, this 3'-6' tall plant prefers moist to wet soils and full sun. With its tiny purple flowers, it blooms from early to late summer. It provides a nectar source to a variety of tiny native bee species who have a difficult time competing with large bee species on bigger blooms.

NATIVE PLANT ZONE: EMERGENT SHALLOW

Acorus calamus Sweet Flag

Emergent Marsh Forb

A plant whose leaves can be mistaken for those of iris, this interesting wetland wildflower takes its common name from the sweet aroma released when its leaves are crushed. Found along stream banks and in a variety of wetlands, this 2'-4' tall plant produces a spadix of tiny greenish-yellow flowers in spring to early summer.

NATIVE PLANT ZONE: SATURATED

Vernonia gigantea Smooth Tall Ironweed

Wet Prairie Forb

Reaching heights of 3'-7', this deep purple wetland forb is easy to recognize when it blooms in August to September. The rich color attracts butterflies and pollinators to its many blossoms.

NATIVE PLANT ZONE: EMERGENT SHALLOW

Hibiscus laevis Smooth Rose Mallow

Emergent Marsh / Pond Edge Forb

A terrific, showy wetland forb, this species is characterized by its long, 3-lobed, spear-shaped lower leaves. Growing 3′-7′ tall, this plant prefers wet soils and full to partial sun. Its mostly white flowers are 4″-6″ in diameter and have pink centers. It blooms from mid-summer to early fall.

NATIVE PLANT ZONE: EMERGENT SHALLOW

Mimulus ringens Monkey Flower

Wet Prairie / Swamp / Floodplain Forb

This is an attractive wetland wildflower with 1″ long, violet-purple flowers that are tubular ending with two lips, the lower lip splits into three lobes. This species grows in areas with damp soils and in water up to 3″ deep. Blooming from mid-summer to early fall, this species prefers full sun, but also grows well in shaded conditions.

NATIVE PLANT ZONE: EMERGENT SHALLOW

Rosa palustris Swamp Rose

Emergent Marsh / Swamp Shrub

This fragrant wetland beauty is a many-branched shrub. In bloom from June-July, it grows to heights of up to 6′ and occurs in swamps, marshes and along stream banks. It is a hardy rose and a favorite ornamental for low, moist, acidic habitats. It is insect pollinated, and the fleshy fruits enclose and protect the developing seeds. Birds eat the fruits and scatter the seed.

NATIVE PLANT ZONE: EMERGENT SHALLOW

Sparganium eurycarpum Common Bur Reed

Emergent Marsh Forb

An aquatic, emergent wildflower that grows in water up to 2′ deep, this species looks like cattail to the untrained eye before blooming. Once in bloom, however, the dazzling ball-shaped flower heads on a zig-zagging stalk make it clear that this plant is a wetland wildflower. It grows up to 6′ high and prefers full sun.

NATIVE PLANT ZONE: EMERGENT SHALLOW

Hibiscus moscheutos Swamp Rose Mallow

Emergent Marsh Forb

Another showy wetland forb, this species produces flowers that can be reddish in color. Its leaves are rounded and egg shaped, although some may appear marginally lobed. It prefers wet soils and full to partial sun.

NATIVE PLANT ZONE: EMERGENT DEEP

Peltandra virginica Arrow Arum

Swamp Forb

This perennial plant with arrow-shaped leaves is found in wetlands during summer. The seeds develop in a spike-shaped pod and are released early in the fall as the pod decays. The leaves can grow up to 3′ in length and plants as tall as 7′ have been found.

NATIVE PLANT ZONE: EMERGENT DEEP

Scirpus acutus Hard-Stemmed Bulrush

Emergent Marsh / Lake Sedge

A tall, sturdy plant, this species grows in waters up to 2′-3′ deep. Preferring full sun, it blooms between mid-spring and mid-summer. It can reach heights of 6′ and is an important food source for waterfowl and aquatic mammals.

NATIVE PLANT ZONE: AQUATIC

Nuphar advena Yellow Pond Lily

Emergent Marsh / Pond / Lake Forb

This floating-leaved, aquatic species can grow into water up to 7′ deep, sending its foliage to the surface. Most of its 4″-12″ long leaves are held above the water, but some float on the surface. Blooming in late spring to late summer with yellow 1.5″-3″ flowers, this species prefers full to partial sun and can spread rapidly.

NATIVE PLANT ZONE: AQUATIC

Nymphaea odorata White Water Lily

Pond / Lake Forb

With its 4″-8″ wide bright white blooms barely floating on the surface, this elegant aquatic plant grows in waters up to 6′ deep. All of its round, notched leaves float on the surface. It prefers full to partial sun and blooms from late spring to late summer.

NATIVE PLANT ZONE: EMERGENT DEEP

Sagittaria latifolia Common Arrowhead

Emergent Marsh / Swamp Forb

An emergent, wetland plant with long, arrow-shaped leaves, this species produces small, eye-catching white flowers about 1″ in diameter. The flowers grow in whorls of 3, with multiple whorls on a single, stout stalk. Growing in water up to 1.5′ deep, this plant blooms from early to late summer. It prefers full to partial sun and grows to a height of 4′.

SOIL MOISTURE: Well-Drained / Rich

Acer saccharum Sugar Maple

Mature Height: 80′ - 100′

This handsome tree is a main component of the eastern deciduous forest. It grows in a variety of soils but does best in rich, well-drained soils, and is not found in swamps. This species is commonly tapped in the spring for maple syrup and admired in the fall for its brilliant color. The winged seeds in the spring are food for birds and wildlife.

SOIL MOISTURE: Moist-to-Wet

Betula nigra River Birch

Mature Height: 60′ - 80′

This medium-sized tree of the eastern US is a floodplain species, growing along streams, rivers, ponds and swamps. The unique shedding bark of young trees is quite ornamental. River Birch is a good choice for most medium to wet areas. Fall leaf color is yellow and winter reveals the great cinnamon colored bark.

SOIL MOISTURE: Dry-to-Medium / Well-Drained

Carya ovata Shagbark Hickory

Mature Height: 70′ - 100′

Nut production in this species takes 15-20 years and is a major food source for bear, deer, fox and squirrel. Early smooth bark turns shaggy and curves away from the trunk. Growing in most pH ranges, this is a key tree for any naturalization project.

SOIL MOISTURE: Moist-to-Wet

Cephalanthus occidentalis Buttonbush

Mature Height: Up to 15′

This is a lowland species commonly growing along streams, rivers and lakes and in swamps. Buttonbush provides excellent cover for nesting birds and waterfowl. Flowering in May, round fruits mature in autumn and are a favorite of mallards. Mature Buttonbush will grow in up to 2′ of standing water.

SOIL MOISTURE: Dry-to-Medium / Rich

Cercis canadensis Redbud

Mature Height: 30′ - 40′

This small beautiful tree is a highlight of spring. Blooming in early spring with clusters of dark pink/lavender flowers, its color is outstanding. Redbud is a short lived tree that occurs on rich, upland soils. This understory tree often forms a distinct stand in association with larger species.

SOIL MOISTURE: Medium-to-Moist

Cornus amomum v. *schuetzeana* Silky Dogwood

Mature Height: Up to 10′

This colorful member of the dogwood family blooms in spring and produces blue fruits in the fall. Sometimes called blue-fruited dogwood, birds, squirrels and woodland mammals eat the fruit. Silky Dogwood is a great plant to use for stream bank restoration, and is common in moist, poorly drained soils. Highly tolerant of shade, young plants have red stems that turn to grey and brown with age. This is a great wildlife shrub that adapts to a wide range of conditions.

SOIL MOISTURE: Dry-to-Moist

Cornus florida Flowering Dogwood

Mature Height: 25′ - 40′

This small, graceful tree is found often at the edge of woodlands growing under larger trees. Its large white bracts are a welcome sight in spring. Large red fruits appear in the late summer and are an important food source for songbirds and smaller mammals. Flowering dogwoods grow best in dry to moist soils with a pH between 6 and 7.

SOIL MOISTURE: Dry-to-Wet / Rich

Cornus sericea Red-Osier Dogwood

Mature Height: 3′ - 10′

This shrub's red twigs make it very attractive in the dormant season. Plants spread by seed and often form dense thickets that can tolerate standing water for long periods. This species grows best in moist nutrient rich soils and full sun. The white fruits stay on the plant though winter, providing food when fruits of many other species are gone.

SOIL MOISTURE: Medium-to-Moist

Corylus americana American Hazelnut

Mature Height: 8′ - 15′

Average to fast growing with multi-stems and a suckering habit, American Hazelnut is a reliable food source for turkey, deer, bear, pheasant and squirrel. Fruits mature in July and August. The male catkins are a winter food source for grouse, quail and woodcock. Growing in full sun to partial shade, this shrub shows a high tolerance to salt and alkaline soils.

SOIL MOISTURE: Wet

Ilex verticillata Winterberry

Mature Height: 6′ - 10′+

Winterberry forms a dense thicket in wet soils. Male and female plants are needed to produce fertile fruit. Female plants produce bright red fruits that are prized for their midwinter splash of color. Fruits are an important food source for songbirds. This shrub grows best in moist organic soils and can tolerate flooding.

SOIL MOISTURE: Dry-to-Moist / Well Drained

Juglans nigra Black Walnut

Mature Height: 70′ - 90′

Black Walnut trees grow best in moist, rich, well-drained soils. This species is often found in bottomlands and floodplains in valleys and along streams. Nut production starts when the tree reaches 10 years and increases with age. This slow growing tree has a pH range of 5.5 to 8. The large nuts are an important food source for wildlife.

SOIL MOISTURE: Moist-to-Wet

Physocarpus opulifolius Ninebark

Mature Height: Up to 10′

This hardy native shrub grows in sun or shade, and in medium, wet soils that are acidic or alkaline. The white flowers in spring are showy and a good source of nectar for birds and butterflies. In the fall, the fruit is eaten by several species of birds. The bark is unique and peels off in layers. Common to sunny stream borders, Ninebark is highly adaptable. The leaves turn a yellow and bronze color in the fall.

SOIL MOISTURE: Moist-to-Wet

Platanus occidentalis Sycamore

Mature Height: Up to 100′

Common to streams, rivers and bottomlands, Sycamore is tolerant of very wet, poorly drained soils. This large tree grows fast and is long-lived. Characteristics include a white trunk with brown peeling bark and very large leaves. The round fruit persist on the tree after the leaves fall. Sycamore is a good choice for floodplain areas.

SOIL MOISTURE: Medium-to-Moist

Quercus macrocarpa Bur Oak

Mature Height: 70′ - 80′

Bur Oak is a large, broad-rounded, deciduous tree with wide branch angles. The deeply ridged, coarse furrowed bark develops at an early age. Its large acorns are an important wildlife food source. Bur Oak is more tolerant of city conditions than most oaks, and irregular growth habits and attractive bark make this tree a great choice for a range of plantings.

SOIL MOISTURE: Medium

Quercus rubra Red Oak

Mature Height: Up to 90′

Moderate to fast growing, this oak is common to a variety of soils but does best in deep, fine-textured soils. Good acorn crops every 2 to 5 years are food sources for deer, bear, raccoon, squirrel, turkey and small rodents. Fast growth and great fall color along with its benefit to wildlife make this tree a great choice for upland plantings.

SOIL MOISTURE: Medium-to-Wet

Sambucus canadensis Elderberry

Mature Height: Up to 15′

This bushy, multi-stemmed shrub has a wide-spreading form. Elderberry will grow in a wide range of soil types, from wet-to-moist conditions. Often forming dense thickets with large blue to black fruits that are used for jams and wine, birds feed on the fruits in the late summer. Common to stream banks and abandoned fields, elderberry can handle mild shade to full sun. This species is very valuable to wildlife and can be used to attract birds and mammals.

SOIL MOISTURE: Moist-to-Wet

Quercus palustris Pin Oak

Mature Height: Up to 90′

This medium size, fast growing oak is primarily a lowland tree. Pin Oak develops a fibrous, spreading root system unlike many of the tap-rooted oaks. This oak can grow in a range of soil conditions, from wet to deep, well drained soils. It usually requires soils with an acidic pH between 5.0 and 6.5. The branching structure has the upper branches ascending and the lower ones distinctly descending. Heavy acorn crops every 2 to 3 years are an important wildlife food source for ducks, turkey, deer and smaller rodents. This Midwestern tree is a good choice for wetlands and floodplain areas.

NATIVE TREE AND SHRUB SEEDLINGS

JFNew OFFERS FULL INSTALLATION SERVICES!
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JFNew is a proud supplier of Midwestern genotype bare-root trees and shrubs, and we can help you with your tree planting projects. From 25 trees to 250,000 trees, no project is too large for us! To ensure species availability, please secure your orders in advance. Minimum order is 25 trees per species. Be sure to ask about our quantity discounts for larger orders.

We have an extensive selection of native tree and shrub species in bare-root form. All of our bare-root trees and shrubs are stored in a dormant state in our climate-controlled storage facility. To optimize planting success, we recommend bare-root trees and shrubs be planted in the spring.

Botanical Name	Common Name	Soil Moisture	Mature Height	Price / Tree
Acer rubrum	Red Maple	Medium/Wet	90′	$0.90
Acer saccharinum	Silver Maple	Medium/Wet	80′	$0.90
Acer saccharum	Sugar Maple	Medium	100′	$1.10
Aesculus glabra	Ohio Buckeye	Medium	70′	$1.35
Amelanchier arborea	Serviceberry	Dry/Medium	15′	$1.00
Aronia arbutifolia	Red Chokeberry	Medium	12′	$1.50
Aronia melanocarpa	Black Chokeberry	Medium	6′	$0.90
Betula nigra	River Birch	Medium/Wet	80′	$0.90
Carya glabra	Pignut Hickory	Dry	80′	$1.50
Carya laciniosa	Kingnut Hickory	Medium/Wet	100′	$1.50
Carya ovata	Shagbark Hickory	Dry/Medium	100′	$1.50
Celtis occidentalis	Hackberry	Medium	90′	$1.50
Cephalanthus occidentalis	Buttonbush	Medium/Wet	15′	$0.90
Cercis canadensis	Redbud	Dry/Medium	40′	$1.00
Cornus amomum v. *schuetzeana*	Silky Dogwood	Medium/Wet	10′	$0.90
Cornus florida	Flowering Dogwood	Dry/Medium	40′	$0.90
Cornus racemosa	Gray Dogwood	Medium/Wet	12′	$0.90
Cornus sericea	Red-Osier Dogwood	Dry/Wet	10′	$0.90
Corylus americana	American Hazelnut	Medium	15′	$1.25
Gymnocladus dioica	Kentucky Coffee Tree	Medium	80′	$1.25
Hamamelis virginiana	Witch Hazel	Medium	20′	$1.25
Ilex verticillata	Winterberry	Wet	10′	$1.25
Juglans nigra	Black Walnut	Medium	90′	$1.25
Larix laricina	Tamarack	Wet	75′	$1.25
Lindera benzoin	Spicebush	Medium/Wet	15′	$1.25
Liquidambar styraciflua	Sweet Gum	Medium	100′	$1.25
Liriodendron tulipifera	Tulip Tree	Medium	120′	$1.00
Nyssa sylvatica	Black Gum	Medium	100′	$1.25
Physocarpus opulifolius	Ninebark	Medium/Wet	10′	$0.90
Platanus occidentalis	Sycamore	Medium/Wet	100′	$0.90
Populus deltoides	Eastern Cottonwood	Medium/Wet	90′	$0.90
Prunus serotina	Wild Black Cherry	Dry/Medium	75′	$1.10
Quercus alba	White Oak	Dry/Medium	100′	$0.90
Quercus bicolor	Swamp White Oak	Medium/Wet	70′	$0.90
Quercus macrocarpa	Bur Oak	Medium	80′	$0.90
Quercus palustris	Pin Oak	Medium/Wet	90′	$0.90
Quercus rubra	Red Oak	Medium	90′	$0.90
Quercus velutina	Black Oak	Dry/Medium	80′	$1.00
Salix discolor	Pussy Willow	Wet	25′	$1.35
Salix interior	Sandbar Willow	Medium/Wet	10′	$1.35
Salix nigra	Black Willow	Wet	50′	$0.90
Sambucus canadensis	Elderberry	Medium/Wet	15′	$0.90
Taxodium distichum	Bald Cypress	Wet	120′	$0.90
Ulmus americana	American Elm	Medium	120′	$1.45
Viburnum dentatum	Arrow-Wood	Medium	15′	$1.25
Viburnum lentago	Nannyberry	Medium/Wet	20′	$0.90
Viburnum opulus v. americanum	American Highbush Cranberry	Medium/Wet	15′	$1.10
Virburnum prunifolium	Black Haw	Dry/Medium	20′	$0.90

FEATURED SPECIES
FROM THE JFNew
TREE AND SHRUB COLLECTION

Liriodendron tulipifera
Tulip Tree
Soil Moisture: Medium
Mature Height: 80′ - 120′

Sometimes called yellow poplar, this fast growing, attractive tree is one of the largest of the Eastern forest. Standing tall and straight some reach 130′ in height. Tulip trees tolerate pH levels from 4.5 to 7.5, and they rarely do well in very wet or very dry soils. The fruit is a source of food for quail, finches, rabbit and squirrel. The large yellow flowers are mostly hidden by the tulip shaped leaves. The fall leaf color is yellow.

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To create an instant, mature-looking landscape, use gallon-sized pots as accent species in an existing landscape or planted in groupings. To ensure species availability, please secure your orders in advance.

Botanical Name	Common Name	Soil Moisture	Price/Gal.
Acorus calamus	Sweet Flag	Wet	$5.75
Andropogon gerardii	Big Bluestem	Dry/Medium	$4.25
Aquilegia canadensis	Wild Columbine	Dry/Medium	$4.75
Asclepias incarnata	Swamp Milkweed	Wet	$5.50
Acsclepias tuberosa	Butterfly Weed	Dry	$5.50
Aster laevis	Smooth Blue Aster	Dry/Medium	$5.25
Aster novae-angliae	New England Aster	Medium/Wet	$4.75
Bouteloua curtipendula	Side-Oats Grama	Dry	$4.25
Carex comosa	Bristly Sedge	Wet	$5.50
Carex vulpinoidea	Brown Fox Sedge	Wet	$4.25
Coreopsis lanceolata	Sand Coreopsis	Dry	$4.50
Coreopsis palmata	Prairie Coreopsis	Dry	$5.50
Coreopsis tripteris	Tall Coreopsis	Medium/Wet	$5.50
Decodon verticillatus	Swamp Loosestrife	Wet	$5.50
Echinacea pallida	Purple Coneflower	Dry	$4.75
Echinacea purpurea	Broad-Leaved Purple Coneflower	Dry/Medium	$4.75
Eryngium yuccifolium	Rattlesnake Master	Medium	$5.50
Eupatorium maculatum	Spotted Joe-Pye Weed	Wet	$5.50
Eupatorium perfoliatum	Common Boneset	Wet	$4.75
Filipendula rubra	Queen of the Prairie	Medium/Wet	$7.50
Hibiscus laevis	Smooth Rose Mallow	Wet	$6.25
Hibiscus moscheutos	Swamp Rose Mallow	Wet	$6.25
Iris virginica	Blue Flag	Wet	$5.50
Juncus effusus	Common Rush	Wet	$5.50
Koeleria pyramidata	June Grass	Dry	$4.75
Liatris aspera	Rough Blazing Star	Dry	$5.25
Liatris spicata	Marsh Blazing Star	Medium/Wet	$4.50
Lobelia cardinalis	Cardinal Flower	Wet	$5.50
Lobelia siphilitica	Great Blue Lobelia	Medium/Wet	$5.50
Mimulus ringens	Monkey Flower	Wet	$5.25
Monarda fistulosa	Wild Bergamot	Dry/Medium	$5.50
Parthenium integrifolium	Wild Quinine	Dry	$5.50
Panicum virgatum	Switch Grass	Medium/Wet	$4.75
Penstemon digitalis	Foxglove Beard Tongue	Medium	$4.75
Penstemon hirsutus	Hairy Beard Tongue	Dry	$4.75
Pycnanthemum virginianum	Common Mountain Mint	Medium/Wet	$5.00
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	Medium	$5.50
Rudbeckia triloba	Brown-Eyed Susan	Medium	$5.50
Schizachyrium scoparium	Little Bluestem	Dry/Medium	$4.25
Scirpus acutus	Hard-Stemmed Bulrush	Wet	$5.50
Scirpus pungens	Chairmaker's Rush	Wet	$5.75
Scirpus validus	Great Bulrush	Wet	$5.50
Silphium laciniatum	Compass Plant	Dry/Medium	$6.25
Silphium perfoliatum	Cup Plant	Medium/Wet	$5.50
Silphium terebinthinaceum	Prairie Dock	Dry/Medium	$6.25
Sorghastrum nutans	Indian Grass	Medium	$4.75
Spartina pectinata	Prairie Cord Grass	Medium/Wet	$6.50
Spiraea alba	Meadowsweet	Medium/Wet	$5.75
Spiraea tomentosa	Steeplebush	Medium/Wet	$5.75
Sporobolus heterolepis	Prairie Dropseed	Medium	$6.75
Tradescantia ohiensis	Common Spiderwort	Medium	$5.50
Vernonia fasciculata	Common Ironweed	Medium/Wet	$5.50
Veronicastrum virginicum	Culver's Root	Medium	$5.50
Zizia aurea	Golden Alexanders	Medium	$4.75

FEATURED SPECIES
FROM THE JFNew
HERBACEOUS GALLON POT COLLECTION

Aquilegia canadensis
Wild Columbine
Dry-to-Mesic Savanna / Woodland Forb

This spring-blooming wildflower produces showy 1"-2" nodding scarlet flowers with yellow centers. It grows 1'-3' high and will bloom into early summer. Tolerant of dry to medium soil moisture, this plant will grow in conditions ranging from full sun to shade. This plant provides an important nectar source for hummingbirds, the plant's only known pollinator.

Penstemon digitalis
Foxglove Beard Tongue
Mesic Prairie Forb

A late spring to early summer bloomer, with its white to pinkish 1" long tubular flowers, this plant is a favorite with bees and hummingbirds. It grows up to 4' tall and prefers medium-soil moisture and full to partial sun. Its smooth stems are often reddish in color, creating a wonderful contrast with its lance-shaped green leaves.

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ECONOMY PRAIRIE SEED MIX

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This mix is an economical way to establish a prairie. Several of the species have been added to provide quick color and create an aesthetically pleasing prairie. Adding seed or plant plugs at a later date is a wonderful way to increase the prairie's richness and diversity. This seed mix will include at least 9 of 13 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	16.00
Bouteloua curtipendula	Side-Oats Grama	18.00
Carex spp.	Prairie Sedge Mix	1.00
Elymus canadensis	Canada Wild Rye	16.00
Panicum virgatum	Switch Grass	2.50
Schizachyrium scoparium	Little Bluestem	24.00
Sorghastrum nutans	Indian Grass	18.00
	Total Oz./Acre	95.50
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	460.00
Forbs		
Asclepias syriaca	Common Milkweed	0.50
Asclepias tuberosa	Butterfly Weed	1.00
Aster laevis	Smooth Blue Aster	0.25
Aster novae-angliae	New England Aster	0.75
Chamaecrista fasciculata	Partridge Pea	12.00
Coreopsis lanceolata	Sand Coreopsis	5.00
Echinacea purpurea	Broad-Leaved Purple Coneflower	7.50
Heliopsis helianthoides	False Sunflower	0.25
Lupinus perennis	Wild Lupine	0.50
Monarda fistulosa	Wild Bergamot	0.25
Pycnanthemum virginianum	Common Mountain Mint	0.50
Ratibida pinnata	Yellow Coneflower	3.50
Rudbeckia hirta	Black-Eyed Susan	8.00
	Total Oz./Acre	40.00

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$395 (per acre)	$237	$125

Apply at 37.2 PLS pounds per acre

FEATURED SPECIES
FROM THE JFNew ECONOMY PRAIRIE SEED MIX

Sorghastrum nutans
Indian Grass
Mesic Prairie Grass

A majestic grass of the tallgrass prairie, this clump-forming species grows up to 9′ tall, blooming from late summer to early fall. Preferring full sun and dry to moist soils, with its plume-like, golden seed heads, this plant attracts birds and adds visual interest to the landscape.

Echinacea purpurea
Broad-Leaved Purple Coneflower
Dry-to-Mesic Prairie Forb

The typical coneflower species, this 3′-5′ tall plant blooms from early to late summer. Its 2″-4″ diameter flower heads are favorite nectar sources for butterflies. In the fall, the seed heads attract birds. It prefers sunny to partially sunny areas with dry soils.

FEATURED PRODUCT

Bluebird House

Bluebirds love open spaces such as prairies! Give these beautiful members of the Thrush family a place to nest year after year with a bird house customized to fit their nesting needs. Order online at www.JFNew.com.

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BASIC PRAIRIE SEED MIX

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A general prairie grass and wildflower mix providing a solid variety of species at an affordable price, this mix features a broad palette of colorful species that should bloom soon after establishment. Adding seed or plant plugs at a later date is a wonderful way to increase a prairie's richness and diversity. This seed mix will include at least 16 of 21 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	13.00
Bouteloua curtipendula	Side-Oats Grama	14.00
Carex spp.	Prairie Sedge Mix	2.00
Elymus canadensis	Canada Wild Rye	22.00
Panicum virgatum	Switch Grass	2.50
Schizachyrium scoparium	Little Bluestem	28.00
Sorghastrum nutans	Indian Grass	16.00
	Total Oz./Acre	**97.50**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs		
Asclepias tuberosa	Butterfly Weed	1.50
Aster novae-angliae	New England Aster	1.50
Chamaecrista fasciculata	Partridge Pea	10.75
Coreopsis lanceolata	Sand Coreopsis	5.00
Coreopsis tripteris	Tall Coreopsis	1.50
Dalea purpurea	Purple Prairie Clover	2.00
Desmanthus illinoensis	Illinois Sensitive Plant	1.50
Echinacea purpurea	Broad-Leaved Purple Coneflower	8.00
Eryngium yuccifolium	Rattlesnake Master	1.00
Heliopsis helianthoides	False Sunflower	0.25
Lespedeza capitata	Round-Headed Bush Clover	1.00
Liatris aspera	Rough Blazing Star	1.00
Lupinus perennis	Wild Lupine	0.25
Monarda fistulosa	Wild Bergamot	1.00
Potentilla arguta	Prairie Cinquefoil	0.75
Pycnanthemum virginianum	Common Mountain Mint	0.50
Ratibida pinnata	Yellow Coneflower	4.50
Rudbeckia hirta	Black-Eyed Susan	6.00
Silphium terebinthinaceum	Prairie Dock	0.75
Solidago nemoralis	Old-Field Goldenrod	0.50
Vernonia spp.	Ironweed Mix	2.00
	Total Oz./Acre	**51.25**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$675 (per acre)	**$388**	**$219**

Apply at 38.0 PLS pounds per acre

FEATURED SPECIES
FROM THE JFNew
BASIC PRAIRIE SEED MIX

Andropogon gerardii
Big Bluestem
Dry-to-Mesic Prairie / Savanna Grass

The primary grass species of the tallgrass prairie, this impressive 4'-8' tall plant blooms in mid-summer to early fall. It is also called "turkey foot" for its often 3-spiked inflorescence that resembles a bird's claw. Preferring full sun and dry-to-medium soil moisture, this species turns a bronze-gold color in late fall.

Asclepias tuberosa
Butterfly Weed
Dry Prairie / Savanna Forb

A wonderful plant to attract butterflies and colorful native bees and wasps, this stunning orange-blooming wildflower prefers dry soils and full to partial sun. A favorite food plant of the caterpillar stage of the Monarch butterfly, this species grows to about 2' in height.

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LOW-PROFILE PRAIRIE SEED MIX

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This mix provides a diverse assemblage of shorter-profile prairie grass and wildflower species. Most of the species will grow to four feet or less, making this an ideal mix for areas where a dominance of taller forbs and grasses is not appropriate. Once established, this wildflower community will display a variety of colors, blooming from early spring to late summer. This mix is suitable for medium-to-dry sites. The grasses in this mix will perform best in sandier soils. This seed mix will include at least 26 of 30 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Bouteloua curtipendula	Side-Oats Grama	10.00
Carex spp.	Prairie Sedge Mix	4.00
Elymus canadensis	Canada Wild Rye	32.00
Koeleria pyramidata	June Grass	1.00
Panicum virgatum	Switch Grass	1.00
Schizachyrium scoparium	Little Bluestem	32.00
	Total Oz./Acre	**80.00**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs		
Anemone cylindrica	Thimbleweed	0.50
Asclepias tuberosa	Butterfly Weed	2.00
Aster ericoides	Heath Aster	0.25
Aster laevis	Smooth Blue Aster	0.75
Aster novae-angliae	New England Aster	0.25
Baptisia lactea	White Wild Indigo	2.00
Chamaecrista fasciculata	Partridge Pea	14.00
Coreopsis lanceolata	Sand Coreopsis	5.00
Coreopsis palmata	Prairie Coreopsis	1.00
Dalea candida	White Prairie Clover	1.50
Dalea purpurea	Purple Prairie Clover	1.50
Echinacea purpurea	Broad-Leaved Purple Coneflower	7.00
Eryngium yuccifolium	Rattlesnake Master	2.50
Lespedeza capitata	Round-Headed Bush Clover	2.00
Liatris aspera	Rough Blazing Star	0.50
Lupinus perennis	Wild Lupine	2.00
Monarda fistulosa	Wild Bergamot	0.75
Parthenium integrifolium	Wild Quinine	1.00
Penstemon digitalis	Foxglove Beard Tongue	0.50
Pycnanthemum virginianum	Common Mountain Mint	1.00
Ratibida pinnata	Yellow Coneflower	4.00
Rudbeckia hirta	Black-Eyed Susan	5.00
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	1.00
Silphium integrifolium	Rosin Weed	3.00
Silphium terebinthinaceum	Prairie Dock	0.50
Solidago nemoralis	Old-Field Goldenrod	0.50
Solidago rigida	Stiff Goldenrod	1.00
Tradescantia ohiensis	Common Spiderwort	0.75
Vernonia spp.	Ironweed Mix	1.75
Veronicastrum virginicum	Culver's Root	0.25
	Total Oz./Acre	**63.75**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$975 (per acre)	**$560**	**$320**

Apply at 37.7 PLS pounds per acre

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FEATURED SPECIES
FROM THE JFNew
LOW-PROFILE PRAIRIE SEED MIX

Schizachyrium scoparium
Little Bluestem
Dry-to-Mesic Prairie / Savanna Grass

A classic grass species of the prairie, this plant grows 2'-4' in height and blooms from late summer to early fall. Preferring dry soils and full-to-partial sun, this clump-forming plant turns a brilliant reddish bronze in the fall. With its silver-white seed heads, this species adds visual interest to the landscape and provides crucial structural support for many shorter prairie wildflowers.

Eryngium yuccifolium
Rattlesnake Master
Mesic Prairie Forb

An attractive plant with an unusual whitish, spiky, ball-shaped flower head, this 3'-5' tall plant prefers full sun and medium soils. With its waxy-green foliage reminiscent of yucca, this species blooms from mid-summer to early fall. Its common name is derived from the fact that Native Americans treated rattlesnake bites with a tea made from the roots.

FEATURED PRODUCT

Instant Prairie Kit

Looking for "instant" results on smaller-scale projects? Create your own smaller prairie with JFNew's Instant Prairie Kit. This 38-plug flat includes a mix of 2 grass and 10 wildflower species suitable for full-sun conditions. Order online at www.JFNew.com.

MESIC-TO-DRY TALLGRASS PRAIRIE SEED MIX

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This is a broad-spectrum prairie grass and wildflower mix for sites with full sun and medium-to-dry soils. The height profile is more varied than the previous mix with species ranging from short to tall. This profile creates a more diverse habitat, offering a variety of cover and food options for wildlife. This seed mix will include at least 25 of 32 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	18.00
Bouteloua curtipendula	Side-Oats Grama	8.00
Carex spp.	Prairie Sedge Mix	4.00
Elymus canadensis	Canada Wild Rye	24.00
Panicum virgatum	Switch Grass	4.00
Schizachyrium scoparium	Little Bluestem	20.00
Sorghastrum nutans	Indian Grass	20.00
	Total Oz./Acre	**98.00**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs		
Anemone cylindrica	Thimbleweed	0.50
Asclepias tuberosa	Butterfly Weed	1.25
Aster laevis	Smooth Blue Aster	0.75
Aster novae-angliae	New England Aster	0.25
Aster oolentangiensis	Sky-Blue Aster	0.25
Baptisia bracteata	Cream Wild Indigo	0.50
Baptisia lactea	White Wild Indigo	2.00
Chamaecrista fasciculata	Partridge Pea	13.00
Coreopsis lanceolata	Sand Coreopsis	3.50
Coreopsis palmata	Prairie Coreopsis	0.75
Desmanthus illinoensis	Illinois Sensitive Plant	1.00
Desmodium illinoense	Illinois Tick Trefoil	0.50
Echinacea purpurea	Broad-Leaved Purple Coneflower	6.50
Eryngium yuccifolium	Rattlesnake Master	2.00
Lespedeza capitata	Round-Headed Bush Clover	2.00
Liatris aspera	Rough Blazing Star	2.00
Liatris pycnostachya	Prairie Blazing Star	0.50
Lupinus perennis	Wild Lupine	1.25
Monarda fistulosa	Wild Bergamot	0.75
Parthenium integrifolium	Wild Quinine	1.00
Potentilla arguta	Prairie Cinquefoil	0.50
Pycnanthemum virginianum	Common Mountain Mint	0.50
Ratibida pinnata	Yellow Coneflower	3.50
Rudbeckia hirta	Black-Eyed Susan	5.00
Silphium integrifolium	Rosin Weed	3.00
Silphium laciniatum	Compass Plant	2.00
Silphium terebinthinaceum	Prairie Dock	4.00
Solidago nemoralis	Old-Field Goldenrod	0.25
Solidago rigida	Stiff Goldenrod	2.00
Solidago speciosa	Showy Goldenrod	0.50
Veronicastrum virginicum	Culver's Root	0.25
Zizia aurea	Golden Alexanders	0.50
	Total Oz./Acre	**62.25**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$975 (per acre)	**$560**	**$320**

Apply at 38.8 PLS pounds per acre

FEATURED SPECIES
FROM THE JFNew MESIC-TO-DRY TALLGRASS PRAIRIE SEED MIX

Panicum virgatum
Switch Grass
Dry-to-Mesic Prairie Grass

This grass species is equally at home in moderately dry soils as it is in moderately wet soils. It prefers full sun and blooms from mid-summer to mid-fall. Reaching heights of 5', it forms a dense cover once established, which makes it perfect for wildlife habitat. In late fall, it turns a brownish-gold.

Monarda fistulosa
Wild Bergamot
Dry-to-Mesic Prairie / Savanna Forb

This member of the mint family is striking in full bloom. A prairie and savanna species that prefers dry soils, it can be found in full and partial sun. Blooming from early to late summer, the dense flower heads are ringed with small, tubular lavender flowers. Growing up to 5' tall, this plant is a favorite with bumblebees and hawk moths.

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WET-TO-MESIC TALLGRASS PRAIRIE SEED MIX

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This mix offers a broad spectrum of prairie grasses and wildflowers for sites with medium to wet soils. Similar to the previous mix, this mix offers a more varied height profile. This dynamic grouping of plants features a variety of colors and textures while tolerating a wide range of conditions. This seed mix will include at least 25 of 30 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	24.00
Calamagrostis canadensis	Bluejoint Grass	1.00
Carex spp.	Prairie Sedge Mix	4.00
Carex lurida	Bottlebrush Sedge	2.00
Elymus virginicus	Virginia Wild Rye	24.00
Panicum virgatum	Switch Grass	2.00
Scirpus pendulus	Red Bulrush	0.25
Sorghastrum nutans	Indian Grass	6.00
Spartina pectinata	Prairie Cord Grass	3.00
	Total Oz./Acre	66.25
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	460.00
Forbs		
Aster novae-angliae	New England Aster	0.25
Baptisia lactea	White Wild Indigo	0.75
Chamaecrista fasciculata	Partridge Pea	12.00
Coreopsis lanceolata	Sand Coreopsis	3.50
Coreopsis tripteris	Tall Coreopsis	3.00
Desmodium illinoense	Illinois Tick Trefoil	0.50
Echinacea purpurea	Broad-Leaved Purple Coneflower	3.50
Eryngium yuccifolium	Rattlesnake Master	2.00
Helenium autumnale	Sneezeweed	2.50
Helianthus grosseserratus	Sawtooth Sunflower	0.50
Liatris spicata	Marsh Blazing Star	1.00
Monarda fistulosa	Wild Bergamot	1.00
Parthenium integrifolium	Wild Quinine	1.00
Physostegia virginiana	Obedient Plant	0.25
Pycnanthemum virginianum	Common Mountain Mint	1.00
Ratibida pinnata	Yellow Coneflower	5.00
Rudbeckia hirta	Black-Eyed Susan	5.50
Rudbeckia laciniata	Wild Golden Glow	1.00
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	0.50
Silphium integrifolium	Rosin Weed	1.00
Silphium laciniatum	Compass Plant	2.00
Silphium perfoliatum	Cup Plant	3.00
Silphium terebinthinaceum	Prairie Dock	6.00
Solidago juncea	Early Goldenrod	0.25
Solidago rigida	Stiff Goldenrod	1.00
Solidago rugosa	Rough Goldenrod	0.25
Tradescantia ohiensis	Common Spiderwort	1.25
Vernonia spp.	Ironweed Mix	3.00
Veronicastrum virginicum	Culver's Root	0.25
Zizia aurea	Golden Alexanders	0.50
	Total Oz./Acre	63.25

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$1,250 (per acre)	$750	$400

Apply at 36.8 PLS pounds per acre

FEATURED SPECIES
FROM THE JFNew WET-TO-MESIC TALLGRASS PRAIRIE SEED MIX

Spartina pectinata
Prairie Cord Grass
Wet Prairie Grass

This tall-standing, erect grass species is found in wet meadows, pond edges, sloughs and drainage ditches. It grows to 4'-7' in height and prefers full sun and moist-to-wet soils. It blooms mid to late summer with its long, coarse seed heads creating an attractive display. It spreads quickly by rhizome.

Aster novae-angliae
New England Aster
Wet-to-Mesic Prairie Forb

A spectacular late-blooming species, this attractive plant produces lavender to violet-blue flower heads measuring 1"-2" in diameter during late summer to mid-fall. This species prefers medium-moist to wet soil conditions in full-to-partial sun. It grows 3'-6' in height and provides one of the last nectar sources of the year for small butterflies, moths and native bees.

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SEDGE MEADOW SEED MIX

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A grass, sedge and wildflower mix for level sites with saturated soil conditions (although it will tolerate drier soils late in the year), this mix creates a diverse habitat, offering a variety of cover and food options for wildlife. Many of the plants attract butterflies, some even attracting hummingbirds. This seed mix will include at least 27 of 30 native forb or shrub species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges / Rushes		
Calamagrostis canadensis	Bluejoint Grass	1.00
Carex comosa	Bristly Sedge	2.00
Carex cristatella	Crested Oval Sedge	2.00
Carex frankii	Bristly Cattail Sedge	1.50
Carex lupulina	Common Hop Sedge	2.50
Carex lurida	Bottlebrush Sedge	4.00
Carex stipata	Common Fox Sedge	1.00
Carex vulpinoidea	Brown Fox Sedge	4.00
Elymus virginicus	Virginia Wild Rye	30.00
Glyceria striata	Fowl Manna Grass	0.50
Juncus effusus	Common Rush	0.25
Leersia oryzoides	Rice Cut Grass	1.25
Panicum virgatum	Switch Grass	1.50
Scirpus atrovirens	Dark Green Rush	0.75
Scirpus pendulus	Red Bulrush	0.25
Scirpus validus	Great Bulrush	1.00
Spartina pectinata	Prairie Cord Grass	2.00
	Total Oz./Acre	**55.50**
Temporary Cover		
Avena sativa	Common Oat	540.00
	Total Oz./Acre	**540.00**
Forbs / Shrubs		
Alisma spp.	Water Plantain Mix	2.00
Angelica atropurpurea	Great Angelica	4.00
Asclepias incarnata	Swamp Milkweed	1.00
Aster novae-angliae	New England Aster	0.50
Aster puniceus	Bristly Aster	1.00
Aster umbellatus	Flat-Top Aster	0.25
Bidens cernua	Nodding Bur Marigold	2.00
Coreopsis tripteris	Tall Coreopsis	2.00
Eupatorium maculatum	Spotted Joe-Pye Weed	1.00
Eupatorium perfoliatum	Common Boneset	0.50
Helenium autumnale	Sneezeweed	2.00
Hibiscus laevis	Smooth Rose Mallow	2.00
Iris virginica	Blue Flag	3.00
Liatris spicata	Marsh Blazing Star	2.00
Lobelia cardinalis	Cardinal Flower	0.25
Lobelia siphilitica	Great Blue Lobelia	2.00
Lycopus americanus	Common Water Horehound	0.25
Penthorum sedoides	Ditch Stonecrop	0.50
Physostegia virginiana	Obedient Plant	0.25
Polygonum spp.	Smartweed Mix	0.50
Pycnanthemum virginianum	Common Mountain Mint	0.50
Sagittaria latifolia	Common Arrowhead	1.00
Senna hebecarpa	Wild Senna	0.75
Silphium perfoliatum	Cup Plant	3.00
Sparganium eurycarpum	Common Bur Reed	4.00
Spiraea alba	Meadowsweet	0.25
Thalictrum dasycarpum	Purple Meadow Rue	1.50
Verbena hastata	Blue Vervain	2.00
Vernonia spp.	Ironweed Mix	1.00
Zizia aurea	Golden Alexanders	1.00
	Total Oz./Acre	**42.00**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$1,250 (per acre)	**$750**	**$400**

Apply at 39.8 PLS pounds per acre

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

FEATURED SPECIES
FROM THE JFNew
SEDGE MEADOW SEED MIX

Scirpus validus
Great Bulrush
Emergent Marsh / Sedge Meadow Sedge

This sturdy graminoid species grows in moist soil and waters up to 2'-3' deep. Although it can grow in partially shaded conditions, it prefers full sun. It blooms between late spring and mid-summer. It can reach heights of 7' and is an important food source for waterfowl and aquatic mammals.

Lobelia cardinalis
Cardinal Flower
Wet Prairie / Swamp Forb

Few native species are as stunning as this wetland wildflower. One of a handful of native species in our region with red flowers, this hummingbird-pollinated plant prefers shade around its basal leaves but sun on its upper leaves. It is found in wet meadows, pond and lake edges, and along stream corridors. Blooming from mid-summer to mid-fall, this 2'-5' tall plant is a self-seeding, short-lived perennial.

WOODED WETLAND ESTABLISHMENT SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

Use this mix in newly reforested areas to reduce weed competition and to provide soil stabilization. As the reforested land becomes more shaded, the species in this seed mix will establish a permanent herbaceous understory layer and help fill out the maturing wooded wetland. This seed mix will include at least 6 of 17 native forb or shrub species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Calamagrostis canadensis	Bluejoint Grass	1.00
Carex crinita	Fringed Sedge	2.00
Carex lupulina	Common Hop Sedge	4.00
Carex lurida	Bottlebrush Sedge	1.50
Carex frankii	Bristly Cattail Sedge	3.00
Carex squarrosa	Narrow-Leaved Cattail Sedge	1.00
Carex typhina	Common Cattail Sedge	1.00
Carex vulpinoidea	Brown Fox Sedge	4.00
Elymus virginicus	Virginia Wild Rye	20.00
Glyceria striata	Fowl Manna Grass	2.00
Leersia oryzoides	Rice Cut Grass	2.00
Scirpus atrovirens	Dark Green Rush	2.00
Spartina pectinata	Prairie Cord Grass	1.00
	Total Oz./Acre	44.50
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	460.00
Forbs / Shrubs		
Alisma spp.	Water Plantain Mix	3.00
Angelica atropurpurea	Great Angelica	1.00
Aster puniceus	Bristly Aster	0.75
Aster umbellatus	Flat-Top Aster	0.25
Bidens cernua	Nodding Bur Marigold	2.50
Campanula americana	Tall Bellflower	0.25
Cephalanthus occidentalis	Buttonbush	0.50
Helenium autumnale	Sneezeweed	2.00
Heracleum lanatum	Cow Parsnip	0.75
Hibiscus moscheutos	Swamp Rose Mallow	2.00
Lobelia siphilitica	Great Blue Lobelia	1.50
Lycopus americanus	Common Water Horehound	0.25
Mimulus ringens	Monkey Flower	1.25
Penthorum sedoides	Ditch Stonecrop	0.50
Polygonum spp.	Smartweed Mix	0.50
Rudbeckia laciniata	Wild Golden Glow	0.75
Verbesina alternifolia	Wingstem	2.00
	Total Oz./Acre	19.75

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$700 (per acre)	$435	$245

Apply at 32.9 PLS pounds per acre

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

FEATURED SPECIES
FROM THE JFNew WOODED WETLAND ESTABLISHMENT SEED MIX

Calamagrostis canadensis
Bluejoint Grass
Wet Prairie / Sedge Meadow Grass

A slender plant of wet meadows and lake banks, this wetland grass blooms in mid-summer and prefers full-to-partial sun. Growing 2'-4' tall, this species is a tussock-forming, perennial grass that spreads from its rhizomes.

Rudbeckia laciniata
Wild Golden Glow
Floodplain Forb

A stately plant with 2"-4" wide yellow flower heads, this species prefers wet soils and full-to-partial sun. Its lower leaves are long and wide; each divided or cleft into 3-7 leaflets. It grows up to 10' tall and can be found in wet meadows and along streams. It readily spreads by rhizome, creating dense stands.

FEATURED PRODUCT

Wood Duck Box

Natural nesting cavities are scarce, and Wood Ducks will readily use nesting boxes. Help sustain this bird of the wooded wetland through a specially constructed Wood Duck Box. Order online at www.JFNew.com.

WETLAND EDGE SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

This is a wetland and pond-edge mix for sites with stable, saturated soil conditions and good water quality. Some species will spread to water depths of up to four inches. This seed mix will include at least 7 of 20 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Carex comosa	Bristly Sedge	1.00
Carex cristatella	Crested Oval Sedge	2.00
Carex frankii	Bristly Cattail Sedge	6.00
Carex vulpinoidea	Brown Fox Sedge	3.00
Eleocharis palustris	Great Spike Rush	0.50
Elymus virginicus	Virginia Wild Rye	12.00
Glyceria striata	Fowl Manna Grass	1.00
Leersia oryzoides	Rice Cut Grass	1.50
Scirpus atrovirens	Dark Green Rush	1.00
Scirpus cyperinus	Wool Grass	0.75
Scirpus pungens	Chairmaker's Rush	1.00
Scirpus validus	Great Bulrush	2.50
	Total Oz./Acre	34.25
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	460.00
Forbs		
Acorus calamus	Sweet Flag	0.50
Alisma spp.	Water Plantain Mix	2.00
Asclepias incarnata	Swamp Milkweed	1.00
Aster puniceus	Bristly Aster	1.00
Bidens spp.	Bidens Mix	2.00
Eupatorium perfoliatum	Common Boneset	1.00
Helenium autumnale	Sneezeweed	2.00
Iris virginica	Blue Flag	2.50
Lobelia siphilitica	Great Blue Lobelia	1.00
Lycopus americanus	Common Water Horehound	0.25
Mimulus ringens	Monkey Flower	1.50
Penthorum sedoides	Ditch Stonecrop	0.50
Polygonum spp.	Smartweed Mix	0.50
Rudbeckia laciniata	Wild Golden Glow	0.75
Sagittaria latifolia	Common Arrowhead	2.00
Senna hebecarpa	Wild Senna	2.00
Sparganium eurycarpum	Common Bur Reed	4.00
Thalictrum dasycarpum	Purple Meadow Rue	0.50
Verbena hastata	Blue Vervain	1.50
Vernonia spp.	Ironweed Mix	2.00
	Total Oz./Acre	28.50

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$875 (per acre)	$525	$280

Apply at 32.5 PLS pounds per acre

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

FEATURED SPECIES
FROM THE JFNew WETLAND EDGE SEED MIX

Carex comosa
Bristly Sedge
Emergent Marsh Sedge

A member of the sedge family, this 2'-4' tall plant blooms in late spring to early summer. Preferring wet soils in full-to-partial sun, this long-lived species is found in wet meadows, along lake shores and in marshes.

Asclepias incarnata
Swamp Milkweed
Wet Prairie / Emergent Marsh Forb

A magnificent milkweed species that produces clusters of pink blossoms, this species prefers moist soils and full-to-partial sun. It is a favorite of native bees and wasps and is also used as a food source for the Monarch butterfly caterpillar. Growing to heights of 3'-5', this plant blooms from early to late summer.

FEATURED PRODUCT

Instant Wetland Kit

Looking for "instant" results on smaller-scale projects? Start your own aquatic oasis with JFNew's Instant Wetland Kit. This 38-plug flat includes 12 emergent wetland species, including 8 forbs and 4 grass / sedges. Order online at www.JFNew.com.

EMERGENT WETLAND SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

This is a wetland seed mix for saturated soils and shallow water in relatively stable wetlands and ponds with good water quality. This mix is ideal for planting in saturated soils. It will spread to water depths of up to 12 inches. This seed mix will include at least 13 of 20 native forb or shrub species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges / Rushes		
Carex comosa	Bristly Sedge	2.50
Carex lacustris	Common Lake Sedge	0.25
Carex lurida	Bottlebrush Sedge	4.00
Carex vulpinoidea	Brown Fox Sedge	6.00
Eleocharis ovata	Blunt Spike Rush	1.00
Leersia oryzoides	Rice Cut Grass	3.00
Juncus effusus	Common Rush	1.00
Scirpus acutus	Hard-Stemmed Bulrush	2.50
Scirpus pungens	Chairmaker's Rush	4.00
Scirpus validus	Great Bulrush	6.00
	Total Oz./Acre	**30.25**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs / Shrubs		
Acorus calamus	Sweet Flag	0.50
Alisma spp.	Water Plantain Mix	2.00
Asclepias incarnata	Swamp Milkweed	1.50
Cephalanthus occidentalis	Buttonbush	0.50
Decodon verticillatus	Swamp Loosestrife	0.50
Eupatorium maculatum	Spotted Joe-Pye Weed	0.50
Hibiscus spp.	Rose Mallow Mix	3.00
Iris virginica	Blue Flag	6.00
Lobelia cardinalis	Cardinal Flower	0.25
Lobelia siphilitica	Great Blue Lobelia	1.50
Lycopus americanus	Common Water Horehound	0.25
Mimulus ringens	Monkey Flower	1.00
Peltandra virginica	Arrow Arum	16.00
Penthorum sedoides	Ditch Stonecrop	0.50
Polygonum spp.	Smartweed Mix	0.50
Pontederia cordata	Pickerel Weed	10.00
Sagittaria latifolia	Common Arrowhead	2.00
Sparganium americanum	American Bur Reed	1.00
Sparganium eurycarpum	Common Bur Reed	4.00
Verbena hastata	Blue Vervain	1.00
	Total Oz./Acre	**52.50**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$1250 (per acre)	**$750**	**$400**

Apply at 33.9 PLS pounds per acre

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

FEATURED SPECIES
FROM THE JFNew
EMERGENT WETLAND SEED MIX

Juncus effusus
Common Rush
Wet Prairie / Emergent Marsh Rush

An interesting-looking graminoid species, this plant grows in full-to-partial sun, preferring damp to saturated soils. Blooming from early to mid-summer, this clump-forming species can grow to a height of 4'. This is one of our most common rush species that is often found in wet meadows, along stream corridors and in other wetland habitats.

Pontederia cordata
Pickerel Weed
Emergent Marsh Forb

An emergent, aquatic species that can grow in water up to 1.5' deep, this marvelous plant produces 4" long flower spikes, ringed with bluish-purple flowers. Its elongated, heart-shaped leaves emerge out of the water on long stalks. Growing in full-to-partial sun, this species blooms in early to late summer. Its flower spikes are often used by dragonflies and damselflies for perches.

FEATURED PRODUCT

Bat House

Bats love to feed in wetlands because of the abundance of insect life. Give these night-flying mammals a place to roost during the daytime in an attractive Bat House. Order online at www.JFNew.com.

STORMWATER SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

A wetland seed mix for saturated soils in a detention pond or for seeding a saturated rain garden, this mix will tolerate highly fluctuating water levels and poor water quality associated with urban stormwater wetlands and ponds. For detention basins which experience long, dry periods, use the "Economy Prairie Seed Mix" in the upper half to third of the basin area. This seed mix will include at least 6 of 12 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges / Rushes		
Carex cristatella	Crested Oval Sedge	1.00
Carex lurida	Bottlebrush Sedge	2.00
Carex vulpinoidea	Brown Fox Sedge	6.00
Elymus virginicus	Virginia Wild Rye	12.00
Glyceria striata	Fowl Manna Grass	1.25
Juncus effusus	Common Rush	1.00
Juncus torreyi	Torrey's Rush	0.25
Leersia oryzoides	Rice Cut Grass	1.00
Panicum virgatum	Switch Grass	8.00
Scirpus atrovirens	Dark Green Rush	1.00
Scirpus cyperinus	Wool Grass	0.50
Scirpus fluviatilis	River Bulrush	0.25
Scirpus validus	Great Bulrush	6.00
	Total Oz./Acre	**40.25**
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	**460.00**
Forbs		
Alisma spp.	Water Plantain Mix	4.25
Asclepias incarnata	Swamp Milkweed	1.50
Bidens spp.	Bidens Mix	2.00
Helenium autumnale	Sneezeweed	2.00
Lycopus americanus	Common Water Horehound	0.25
Mimulus ringens	Monkey Flower	1.00
Penthorum sedoides	Ditch Stonecrop	0.50
Polygonum pensylvanicum	Pinkweed	4.00
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	1.00
Sagittaria latifolia	Common Arrowhead	1.00
Senna hebecarpa	Wild Senna	1.00
Thalictrum dasycarpum	Purple Meadow Rue	2.00
	Total Oz./Acre	**20.50**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$775 (per acre)	**$445**	**$255**

Apply at 32.5 PLS pounds per acre

FEATURED SPECIES
FROM THE JFNew STORMWATER SEED MIX

Scirpus cyperinus
Wool Grass
Wet Prairie Sedge

Blooming from mid to late summer, this interesting and attractive sedge with loose, 7" rusty seed heads, becomes wooly with age. Dense tussocks of linear curving basal leaves with short branching rhizomes are well suited to naturalizing in moist-to-wet soil and full sun. It will commonly reach heights of 4'-5' tall.

Rudbeckia subtomentosa
Sweet Black-Eyed Susan
Mesic Prairie Forb

This wonderful plant grows up to 5' tall and produces a stunning display of bright, yellow and brown flower heads in late summer to early fall. This plant prefers full-to-partial sun and medium soil moisture.

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

SLOPE STABILIZATION SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

This grass and sedge mix is best suited for sites with slopes where erosion control is needed. Applications include embankments, dams and levees.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	48.00
Bouteloua curtipendula	Side-Oats Grama	16.00
Carex spp.	Prairie Sedge Mix	4.00
Elymus canadensis	Canada Wild Rye	32.00
Elymus virginicus	Virginia Wild Rye	24.00
Panicum virgatum	Switch Grass	12.00
Schizachyrium scoparium	Little Bluestem	32.00
Sorghastrum nutans	Indian Grass	32.00
	Total Oz./Acre	**200.00**
Temporary Cover		
Avena sativa	Common Oat	512.00
Lolium multiflorum	Annual Rye	240.00
	Total Oz./Acre	**752.00**

Sold in 1/4 Acre Increments		
1 or More Acres	**1/2 Acre**	**1/4 Acre**
$295 (per acre)	**$170**	**$95**

Apply at 59.5 PLS pounds per acre

Healthy streambanks are essential for healthy waterways. Clearing streambanks, slopes and shorelines of deep rooted, natural vegetation increases runoff, reduces overall water quality and weakens their overall structural integrity, making them even more prone to erosion. One method for mitigating erosion problems is by implementing natural products such as live stakes and fascines. These offer a cost-effective way to stabilize streambanks, shorelines and riparian areas.

Live stakes are simply cuttings taken from fast-rooting shrub species that are driven into the soil in order to allow them to sprout roots laterally. Properly installed live stakes will eventually fill in and stabilize the bank with a dense root network.

Fascines are long bundles of small-diameter cuttings that produce similar results. Instead of driving fascines into the soil, they are placed horizontally in a shallow trench. Both materials are best utilized in conjunction with other erosion control methods such as erosion fabric and the use of permanent seed mixes. Call a JFNew Native Plant Nursery sales representative for pricing and availability.

FEATURED PRODUCT
Biologs and Erosion Control Blankets

Make the most out of the "Slope Stabilization Seed Mix" by using it in conjunction with JFNew's complete line of Riparian Anchoring Systems. Our biologs and erosion control blankets are ideal for most streambank, slope stabilization and erosion control projects. Visit www.JFNew.com or call 574.586.2412 for more information regarding pricing and installation.

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

SWALE SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

A swale is a drainage ditch or natural depression along a roadside or parking lot. The native plants used in our "Swale Seed Mix" help filter pollutants from both lawns and pavement. This mix can also be applied to areas that temporarily retain water after a rain. Used in this way, you can create rain gardens with beautiful native wildflowers, grasses and sedges. Due to the variability in soil and hydrological conditions, this seed mix includes at least 10 of 14 native forb species to provide diversity for establishment.

Botanical Name	Common Name	Oz./Acre
Permanent Grasses / Sedges		
Andropogon gerardii	Big Bluestem	12.00
Carex comosa	Bristly Sedge	2.00
Carex cristatella	Crested Oval Sedge	1.00
Carex lurida	Bottlebrush Sedge	2.50
Carex spp.	Prairie Sedge Mix	2.00
Carex vulpinoidea	Brown Fox Sedge	4.00
Elymus virginicus	Virginia Wild Rye	8.00
Glyceria striata	Fowl Manna Grass	1.00
Panicum virgatum	Switch Grass	2.00
Scirpus atrovirens	Dark Green Rush	2.00
Scirpus cyperinus	Wool Grass	0.50
Spartina pectinata	Prairie Cord Grass	3.00
	Total Oz./Acre	40.00
Temporary Cover		
Avena sativa	Common Oat	360.00
Lolium multiflorum	Annual Rye	100.00
	Total Oz./Acre	460.00
Forbs		
Alisma spp.	Water Plantain Mix	1.00
Asclepias incarnata	Swamp Milkweed	2.00
Aster novae-angliae	New England Aster	0.50
Coreopsis tripteris	Tall Coreopsis	1.00
Eupatorium maculatum	Spotted Joe-Pye Weed	0.25
Iris virginica	Blue Flag	4.00
Liatris spicata	Marsh Blazing Star	1.00
Lobelia cardinalis	Cardinal Flower	0.25
Lobelia siphilitica	Great Blue Lobelia	0.50
Lycopus americanus	Common Water Horehound	0.25
Sagittaria latifolia	Common Arrowhead	0.75
Silphium terebinthinaceum	Prairie Dock	1.00
Verbena hastata	Blue Vervain	1.50
Zizia aurea	Golden Alexanders	0.75
	Total Oz./Acre	14.75

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$575 (per acre)	$335	$190

Apply at 37.2 PLS pounds per acre

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

FEATURED SPECIES
FROM THE JFNew SWALE SEED MIX

Iris virginica
Blue Flag
Wet Prairie / Swamp / Emergent Marsh Forb

An outstanding wetland wildflower with showy, 2"-4" blue to violet blooms, this species grows in areas with damp soils and in water up to 12" deep. Blooming from late spring to mid-summer, this 2'-3' tall plant, with its wide, silver-green leaves, is a perfect choice for water gardens. It grows slowly and may take up to three years to produce its first blooms.

Lobelia siphilitica
Great Blue Lobelia
Wet Prairie Forb

A beautiful blue-flowering wetland wildflower, this longer-lived member of the genus *Lobelia* is a favorite with native bees. Blooming from mid-summer to mid-fall, this plant grows up to 4' tall and prefers wet soils along the edges of ponds and streams.

FEATURED PRODUCT

Instant Rain Garden Kit

Looking for "instant" results on smaller-scale projects? Make a splash with JFNew's Instant Rain Garden Kit. This 38-plug flat includes 11 grass and wildflower species suitable for periodically wet conditions. Order online at www.JFNew.com.

ANNUAL & PERENNIAL FORBS SEED MIX

JFNew OFFERS FULL INSTALLATION SERVICES!
VISIT www.JFNew.com OR CONTACT YOUR LOCAL JFNew OFFICE FOR MORE INFORMATION.

This seed mix includes quick-blooming annuals, biennials and perennials to provide initial color during native prairie establishment, especially on restoration sites. This seed mix will include at least 7 of 9 native forb species.

Botanical Name	Common Name	Oz./Acre
Permanent Native Species		
Chamaecrista fasciculata	Partridge Pea	16.00
Coreopsis lanceolata	Sand Coreopsis	10.00
Desmanthus illinoensis	Illinois Sensitive Plant	12.00
Echinacea purpurea	Broad-Leaved Purple Coneflower	10.00
Lupinus perennis	Wild Lupine	1.00
Monarda fistulosa	Wild Bergamot	1.50
Penstemon digitalis	Foxglove Beard Tongue	1.00
Ratibida pinnata	Yellow Coneflower	4.50
Rudbeckia hirta	Black-Eyed Susan	10.00
	Total Oz./Acre	66.00

Sold in 1/4 Acre Increments		
1 or More Acres	1/2 Acre	1/4 Acre
$325 (per acre)	$195	$105

Apply at 4.1 PLS pounds per acre

FEATURED PRODUCT
NATIVE WILDFLOWER SEED PACKETS

These mixes have been created for individuals with smaller spaces who want the beauty and benefits of native perennials. Each mix offers an opportunity to establish native wildflowers in the home garden. These wildflower species are native to the Midwest and will provide years of enjoyment. Each 1 ounce packet plants 500 square feet. Order online at www.JFNew.com.

Butterfly Mix
$10.50 /each

Time to Go Wild Mix
$12.50 /each

Bird and Butterfly Mix
$10.50 /each

Wild Native Mix
$7.50 /each

TO SEE OUR TERMS OF SALE, VISIT www.JFNew.com

BOTANICAL NAME	COMMON NAME	PRICE PER PLANT	PRICE PER PLS OZ.	APPROX. SEEDS/OZ.	HEIGHT	BLOOM COLOR	BLOOM TIME	SOIL MOISTURE	FULL SUN	PARTIAL SUN	SHADE	SALT TOLERANT	DEER RESISTANT
Acer rubrum	Red Maple	$0.90		794	up to 90′	Red	Mar-May	Medium/Wet	x	x	x		
Acer saccharinum	Silver Maple	$0.90		120	up to 80′	Red	Mar-Apr	Medium/Wet	x	x	x	x	
Acer saccharum	Sugar Maple	$1.10		563	up to 100′	Green/Brown	Apr-May	Medium	x	x	x		
Acorus calamus	Sweet Flag	$1.30	$12.50	7,000	1′-4′	Green	May-Jun	Wet	x	x			x
Agalinis tenuifolia	Slender False Foxglove		$50.00	781,250	1′-2′	Lavender	Aug-Oct	Wet	x	x			
Agastache foeniculum	Lavender Hyssop		$11.25	65,000	2′-4′	Purple	Jun-Sep	Medium	x	x	x		x
Agastache nepetoides	Yellow Giant Hyssop	$1.25	$14.25	90,000	3′-7′	Yellow	Jul-Oct	Dry/Medium	x	x			
Agastache scrophulariifolia	Purple Giant Hyssop		$14.25	59,500	3′-7′	Purple	Jul-Oct	Dry/Medium		x	x		
Alisma subcordatum	Common Water Plantain		$15.60	70,175	2′-4′	White	Jul-Sep	Wet	x				
Allium canadense	Wild Onion		$32.50	590	1′-2′	Pink	Apr-Jul	Medium	x	x	x		
Allium cernuum	Nodding Onion	$1.50	$18.00	7,700	1′-2′	White/Lavender	Jun-Oct	Medium	x	x			x
Amelanchier arborea	Serviceberry	$1.00		4,688	up to 15′	White	Apr	Dry/Medium	x	x	x		
Amorpha canescens	Lead Plant	$2.50	$24.50	17,000	2′-3′	Purple	Jun-Aug	Dry	x	x			
Amorpha fruticosa	Indigo Bush	$2.25	$12.00	3,700	up to 18′	Purple	May-Aug	Medium/Wet	x	x		x	
Andropogon gerardii	Big Bluestem	$1.15	$1.60	8,188	4′-8′	Green	Jul-Sep	Dry/Medium	x	x			x
Andropogon virginicus	Broom Sedge	$1.25	$10.50	15,625	2′-4′	Green	Aug-Sep	Medium	x			x	
Anemone canadensis	Meadow Anemone	$1.50	$37.50	9,250	1′-2′	White	May-Sep	Medium/Wet	x	x			
Anemone cylindrica	Thimbleweed	$1.50	$55.00	20,938	2′-3′	White	Jun-Aug	Dry	x	x			
Anemone virginiana	Tall Anemone	$2.25	$38.50	20,000	1′-3′	White	Jun-Aug	Dry/Medium	x	x	x		
Anemonella thalictroides	Rue Anemone	$1.50		13,438	6″-1′	White	Mar-Jun	Medium		x	x		
Angelica atropurpurea	Great Angelica	$1.50	$12.75	6,250	4′-12′	White	May-Jun	Wet	x	x			
Apocynum androsaemifolium	Spreading Dogbane		$55.00	25,000	1′-4′	Pink	May-Sep	Dry	x	x			
Aquilegia canadensis	Wild Columbine	$1.30	$72.00	25,000	1′-3′	Red/Yellow	Apr-Jul	Dry/Medium	x	x	x	x	x
Arisaema triphyllum	Jack-In-The-Pulpit	$3.25		425	1′-3′	Green	Apr-Jul	Medium		x	x		
Asclepias hirtella	Tall Green Milkweed	$2.25		4,300	2′-3′	Purple/Cream	Jun-Aug	Dry/Medium	x				
Asclepias incarnata	Swamp Milkweed	$1.30	$15.00	4,540	3′-5′	Pink	Jun-Sep	Wet	x	x			
Asclepias purpurascens	Purple Milkweed	$1.75	$62.00	5,141	2′-4′	Purple/Pink	Jun-Jul	Medium	x	x			
Asclepias sullivantii	Prairie Milkweed	$1.75	$75.00	5,300	2′-3′	Pink	Jun-Aug	Dry	x				
Asclepias syriaca	Common Milkweed	$1.30	$6.75	4,000	2′-4′	Pink	Jun-Aug	Dry/Medium	x	x			x
Asclepias tuberosa	Butterfly Weed	$1.50	$25.00	3,500	1′-3′	Orange	Jun-Sep	Dry	x	x		x	x
Asclepias verticillata	Whorled Milkweed	$1.75	$40.00	10,250	1′-2′	White	Jun-Sep	Dry/Medium	x	x			x
Aster cordifolius	Heart-Leaved Aster	$2.25	$80.00	131,250	2′-4′	Blue/White/Yellow	Sep-Oct	Dry/Medium		x	x		
Aster ericoides	Heath Aster	$1.50	$75.00	140,000	1′-3′	White/Yellow	Aug-Oct	Dry/Medium	x	x		x	
Aster laevis	Smooth Blue Aster	$1.30	$28.50	48,000	3′-5′	Blue/Yellow	Aug-Oct	Dry/Medium	x			x	
Aster lanceolatus	Panicled Aster	$1.50	$45.00	141,750	3′-5′	White/Yellow	Jul-Nov	Medium/Wet	x	x	x		
Aster lateriflorus	Side-Flowering Aster	$1.50	$35.00	200,000	1′-3′	White/Yellow	Jul-Oct	Medium	x	x	x		
Aster macrophyllus	Big-Leaved Aster	$1.75	$65.00	21,600	6″-2′	Lavender/White/Yellow	Jul-Oct	Dry/Medium		x	x		
Aster novae-angliae	New England Aster	$1.30	$22.00	76,000	3′-6′	Violet/Yellow	Jul-Oct	Medium/Wet	x	x			
Aster oblongifolius	Aromatic Aster	$2.25	$38.50	51,000	2′-3′	Lavender/Yellow	Aug-Oct	Dry	x				
Aster oolentangiensis	Sky-Blue Aster	$1.50	$28.00	82,000	1′-4′	Blue/Yellow	Jul-Nov	Dry	x	x		x	
Aster praealtus	Willow Aster		$60.00	104,000	2′-4′	Blue/White/Yellow	Sep-Oct	Medium	x	x			
Aster puniceus	Bristly Aster	$1.25	$28.00	76,000	3′-6′	Lavender/White/Yellow	Aug-Oct	Wet	x			x	
Aster sagittifolius	Arrow-Leaved Aster	$1.50	$18.50	110,000	2′-5′	Lavender/White/Yellow	Aug-Sep	Dry/Medium		x	x		
Aster sericeus	Silky Aster	$1.50	$65.00	57,000	1′-2′	Purple/Yellow	Aug-Oct	Dry	x	x			
Aster shortii	Short's Aster	$1.75	$90.00	60,000	1′-4′	Blue/Yellow	Aug-Oct	Dry/Medium		x	x		
Aster umbellatus	Flat-Top Aster	$1.50	$38.00	315,000	1′-4′	White/Yellow	Jul-Oct	Medium/Wet	x	x			
Astragalus canadensis	Canadian Milk Vetch	$1.50	$18.75	16,000	1′-4′	Cream	Jun-Oct	Dry/Medium	x	x			
Aureolaria flava	Smooth False Foxglove	$1.75	$37.00	7,000	3′-5′	Yellow	Jul-Oct	Dry/Medium		x	x		
Baptisia australis	Blue Wild Indigo	$1.75	$33.00	1,600	1′-4′	Blue	May-Jun	Dry/Medium	x	x		x	
Baptisia bracteata	Cream Wild Indigo	$1.75	$75.00	1,700	3′-4′	Cream	May-Jun	Dry	x	x		x	
Baptisia lactea	White Wild Indigo	$1.75	$23.00	1,600	3′-4′	White	May-Aug	Medium	x	x			x
Baptisia tinctoria	Yellow Wild Indigo	$2.25	$95.00	5,200	2′-3′	Yellow	Jun-Aug	Dry	x	x			
Betula nigra	River Birch	$0.90		10,547	up to 80′	Green	May	Medium/Wet	x	x		x	
Bidens cernua	Nodding Bur Marigold		$18.75	14,175	1′-4′	Yellow	Jun-Oct	Wet	x			x	
Bidens coronata	Tall Swamp Marigold		$25.00	8,925	2′-5′	Yellow	Jun-Oct	Wet	x				
Bidens frondosa	Common Beggars-Tick		$18.75	5,250	1′-4′	Orange	Jul-Sep	Wet	x	x	x		
Blephilia hirsuta	Wood Mint	$1.75	$55.00	233,539	1′-3′	White	Jun-Oct	Medium		x	x		
Boltonia asteroides	False Aster	$1.75	$20.00	141,750	3′-5′	White/Yellow	Aug-Oct	Wet	x	x			
Bouteloua curtipendula	Side-Oats Grama	$1.15	$2.00	9,375	2′-4′	Green	Jul-Oct	Dry	x	x		x	x
Brasenia schreberi	Water Shield	$2.75		78,125		Purple	Jun-Jul	Wet	x				
Bromus ciliatus	Fringed Brome		$3.75	6,188	2′-4′	Green	Jun-Jul	Medium/Wet	x	x			
Bromus pubescens	Woodland Brome		$17.00	7,188	2′-4′	Green	Jun-Jul	Medium		x	x		
Cacalia atriplicifolia	Pale Indian Plantain	$2.25	$25.00	6,500	3′-8′	White	Jun-Oct	Dry/Medium	x	x	x		
Cacalia plantaginea	Prairie Indian Plantain	$4.50	$125.00	5,938	3′-5′	White	Jun-Aug	Medium	x				
Calamagrostis canadensis	Bluejoint Grass	$1.15	$38.50	94,500	2′-4′	Green	Jun	Wet	x	x	x		
Calamovilfa longifolia	Sand Reed	$1.75	$32.00	17,125	3′-6′	Green	Jul-Sep	Dry	x	x		x	
Caltha palustris	Marsh Marigold	$2.75	$43.00	50,000	1′-2′	Yellow	Mar-Jun	Wet	x	x	x		
Campanula americana	Tall Bellflower	$1.50	$45.00	800,000	2′-6′	Blue	Jul-Nov	Medium		x	x		x
Campanula rotundifolia	Harebell	$1.75		900,000	1′-2′	Blue	Jun-Oct	Dry	x	x			
Carex aquatilis	Long-Bracted Tussock Sedge	$1.75		125,000	2′-3′	Green	Apr-Jun	Wet	x	x			
Carex atherodes	Hairy-Leaved Lake Sedge	$1.50	$32.00	156,250	2′-4′	Green	May-Jun	Wet	x	x			
Carex bebbii	Bebb's Oval Sedge	$1.15	$24.50	100,000	2′-3′	Green	Jun	Wet	x	x			

BOTANICAL NAME	COMMON NAME	PRICE PER PLANT	PRICE PER PLS OZ.	APPROX. SEEDS/OZ.	HEIGHT	BLOOM COLOR	BLOOM TIME	SOIL MOISTURE	FULL SUN	PARTIAL SUN	SHADE	SALT TOLERANT	DEER RESISTANT
Carex bicknellii	Copper-Shouldered Oval Sedge	$1.75	$40.00	33,422	1'-2'	Green	May-Jun	Dry	x				x
Carex brevior	Plains Oval Sedge	$2.50	$22.50	27,500	1'-2'	Green	May-Jun	Dry	x				x
Carex comosa	Bristly Sedge	$1.15	$24.50	41,183	2'-3'	Green	May-Jun	Wet	x	x			
Carex crinita	Fringed Sedge	$1.15	$24.50	141,750	2'-5'	Green	May	Wet	x	x	x		
Carex cristatella	Crested Oval Sedge	$1.15	$24.50	59,000	2'-3'	Green	May-Jun	Wet	x	x			x
Carex crus-corvi	Crowfoot Fox Sedge	$2.25		13,125	2'-3'	Green	Jun	Wet	x	x	x		
Carex davisii	Awned Graceful Sedge	$1.75		9,000	2'-3'	Green	May	Medium		x	x		
Carex emoryi	Riverbank Sedge	$1.50	$24.50	140,625	2'-3'	Green	May	Wet	x	x			
Carex frankii	Bristly Cattail Sedge	$1.15	$12.75	31,250	1'-2'	Green	Jun-Jul	Wet	x	x	x		x
Carex granularis	Pale Sedge	$1.30	$47.50	15,500	1'-2'	Green	May-Jun	Wet	x	x	x		
Carex grayi	Common Bur Sedge	$1.75	$38.00	1,200	1'-2'	Green	May-Jun	Wet		x	x		
Carex haydenii	Long-Scaled Tussock Sedge	$2.25			1'-3'	Green	May	Wet	x	x			
Carex hystericina	Porcupine Sedge	$1.15	$20.50	36,000	2'-3'	Green	May-Jun	Wet	x	x	x		
Carex interior	Prairie Star Sedge	$2.25		38,000	1'-3'	Green	May	Wet	x	x			
Carex lacustris	Common Lake Sedge	$1.50	$75.00	26,000	2'-4'	Green	May-Jun	Wet	x	x	x		
Carex lupulina	Common Hop Sedge	$1.25	$15.00	3,635	2'-3'	Green	May-Jun	Wet	x	x	x		x
Carex lurida	Bottlebrush Sedge	$1.25	$28.75	12,000	2'-3'	Green	May-Jun	Wet	x	x	x		x
Carex muhlenbergii	Sand Bracted Sedge	$1.50	$32.50	11,875	1'-3'	Green	May-Jun	Dry	x	x	x		
Carex muskingumensis	Swamp Oval Sedge	$1.50	$35.00	81,250	1'-2'	Green	May-Jun	Wet			x		
Carex normalis	Spreading Oval Sedge	$1.25	$27.50	25,000	1'-3'	Green	May-Jun	Medium		x	x		
Carex pensylvanica	Common Oak Sedge	$2.50		29,000	6"-1'	Green	Apr-May	Dry	x	x	x		
Carex prairea	Fen Panicled Sedge	$2.50	$85.00	84,375	1'-4'	Green	May	Wet	x	x			
Carex projecta	Loose-Headed Oval Sedge	$1.50	$35.00	131,094	1'-3'	Green	Jun-Jul	Wet	x	x	x		
Carex radiata	Straight-Styled Wood Sedge	$1.75		41,390	1'-2'	Green	Jun-Jul	Medium		x	x		
Carex rosea	Curly-Styled Wood Sedge	$1.75	$35.00	53,125	1'	Green	Apr-Jun	Medium		x	x		
Carex scoparia	Lance-Fruited Oval Sedge	$1.15	$24.50	83,250	2'-3'	Green	May-Jun	Medium	x	x			
Carex sparganioides v. cephaloidea	Rough-Clustered Sedge	$1.75	$24.50	15,500	1'-3'	Green	May-Jun	Medium		x	x		
Carex squarrosa	Narrow-Leaved Cattail Sedge	$1.25	$45.00	25,111	1'-2'	Green	May-Jun	Wet	x	x			
Carex stipata	Common Fox Sedge	$1.15	$24.50	35,625	1'-3'	Green	Apr-May	Wet	x	x	x		x
Carex straminea	Awned Oval Sedge	$1.15	$50.00	100,000	1'-3'	Green	May-Jun	Wet	x	x			
Carex stricta	Common Tussock Sedge	$1.50	$61.50	187,500	2'-3'	Green	Apr-Jun	Wet	x	x			
Carex tribuloides	Awl-Fruited Oval Sedge	$1.50	$28.75	118,750	2'-3'	Green	May-Jul	Wet	x	x	x		
Carex typhina	Common Cattail Sedge	$2.50	$45.00	15,375	1'-2'	Green	Jun	Wet	x	x			
Carex utriculata	Common Yellow Lake Sedge	$1.25	$42.50	10,115	2'-4'	Green	May-Jun	Wet	x				
Carex vesicaria	Tufted Lake Sedge		$35.00	12,000	2'-3'	Green	Jun-Jul	Wet	x				
Carex viridula	Green Yellow Sedge	$1.75	$38.50	35,000	1'-2'	Green	May-Sep	Wet	x	x			
Carex vulpinoidea	Brown Fox Sedge	$1.15	$14.50	125,000	2'-3'	Green	May-Jun	Wet	x	x			x
Carex vulpinoidea v. ambigua	Large Yellow Fox Sedge	$1.50	$22.50	90,625	1'-3'	Green	May-Jun	Medium/Wet	x				
Carya glabra	Pignut Hickory	$1.50		3	up to 80'	Yellow/Green	May-Jun	Dry	x	x	x		
Carya laciniosa	Kingnut Hickory	$1.50		2	up to 100'	Yellow/Green	May-Jun	Medium/Wet	x	x	x		
Carya ovata	Shagbark Hickory	$1.50		2	up to 100'	Yellow/Green	May-Jun	Dry/Medium	x	x	x	x	
Caulophyllum thalictroides	Blue Cohosh		$34.50	120	1'-3'	Yellow	Apr-May	Medium		x	x		x
Ceanothus americanus	New Jersey Tea	$2.75	$96.00	7,000	1'-3'	White	Jun-Oct	Dry	x	x			
Cephalanthus occidentalis	Buttonbush	$0.90	$18.50	12,500	up to 15'	White	Jun-Aug	Medium/Wet	x	x	x		
Cercis canadensis	Redbud	$1.00		1,024	up to 40'	Lavender/Pink	Apr-May	Dry/Medium	x	x	x		
Chamaecrista fasciculata	Partridge Pea	$1.50	$4.25	3,800	1'-3'	Yellow	Jun-Oct	Dry/Medium	x	x			
Chasmanthium latifolium	Indian Wood Oats	$1.75	$15.00	7,500	2'-3'	Green	Jul-Aug	Medium		x	x		
Chelone glabra	Turtlehead	$1.75	$50.00	96,875	2'-4'	Cream	Aug-Sep	Wet	x	x	x		
Cinna arundinacea	Common Wood Reed	$1.15	$24.50	308,750	3'-4'	Green	Aug-Sep	Wet	x	x	x		
Clematis virginiana	Virgin's Bower	$2.25	$30.00	13,600	9' long	White	Jul-Oct	Medium	x	x			
Coreopsis lanceolata	Sand Coreopsis	$1.15	$5.25	12,500	1'-2'	Yellow	May-Aug	Dry	x	x		x	x
Coreopsis palmata	Prairie Coreopsis	$1.50	$50.00	11,875	1'-2'	Yellow	Jun-Aug	Dry	x	x			x
Coreopsis tripteris	Tall Coreopsis	$1.50	$27.50	11,500	4'-8'	Yellow/Brown	Aug-Sep	Medium/Wet	x	x			x
Cornus amomum v. schuetzeana	Silky Dogwood	$0.90		75	up to 10'	White	May-Jul	Medium/Wet	x	x	x		
Cornus florida	Flowering Dogwood	$0.90		281	up to 40'	White/Yellow	Apr-Jun	Dry/Medium	x	x	x		
Cornus sericea	Red-Osier Dogwood	$0.90		1,169	up to 10'	White	May-Sep	Dry/Wet	x	x			
Corylus americana	American Hazelnut	$1.25			up to 15'	Green	July-Aug	Medium	x	x	x	x	
Cyperus esculentus	Field Nut Sedge		$28.75	234,375	1'-2'	Green	Jul-Aug	Medium	x				
Dalea candida	White Prairie Clover	$1.75	$12.50	26,250	1'-3'	White	Jun-Oct	Dry	x	x			
Dalea purpurea	Purple Prairie Clover	$1.75	$12.75	20,000	1'-3'	Purple	Jun-Sep	Dry	x	x		x	
Decodon verticillatus	Swamp Loosestrife	$1.75	$60.00	40,250	2'-4'	Magenta	Jul-Sep	Wet	x	x			
Deschampsia caespitosa	Tufted Hair Grass	$1.75		75,000	1'-3'	Green	May-Jun	Wet	x	x		x	
Desmanthus illinoensis	Illinois Sensitive Plant	$1.25	$8.50	4,888	3'-5'	White	Jul-Aug	Dry/Medium	x				
Desmodium canadense	Showy Tick Trefoil	$1.75	$18.75	4,500	2'-5'	Purple	Jun-Sep	Medium	x	x			
Desmodium canescens	Hoary Tick Trefoil	$1.50		2,800	3'-5'	Purple	Aug	Dry	x	x			
Desmodium illinoense	Illinois Tick Trefoil		$25.00	4,250	3'-6'	Purple	Jul-Aug	Dry/Medium	x	x			
Desmodium sessilifolium	Sessile-Leaved Tick Trefoil	$1.50	$45.00	5,125	2'-4'	Purple	Jul-Sep	Dry	x	x			
Diarrhena americana	Beak Grass	$1.50	$11.50	3,320	1'-3'	Green	Jul	Medium		x	x		
Dodecatheon meadia	Shooting Star	$4.50	$125.00	75,000	1'-3'	White/Pink	Apr-Jun	Medium	x	x			x
Dulichium arundinaceum	Three-Way Sedge	$1.15	$18.00	100,000	1'-3'	Green	Jul-Aug	Wet	x	x			
Echinacea pallida	Purple Coneflower	$1.25	$12.50	5,000	2'-5'	Lavender/Brown	May-Aug	Dry	x				x
Echinacea purpurea	Broad-Leaved Purple Coneflower	$1.25	$5.00	6,600	3'-5'	Purple/Brown	Jun-Aug	Dry/Medium	x	x		x	x

BOTANICAL NAME	COMMON NAME	PRICE PER PLANT	PRICE PER PLS OZ.	APPROX. SEEDS/OZ.	HEIGHT	BLOOM COLOR	BLOOM TIME	SOIL MOISTURE	FULL SUN	PARTIAL SUN	SHADE	SALT TOLERANT	DEER RESISTANT
Eleocharis acicularis	Needle Spike Rush	$1.50	$35.00	70,000	6″	Green	May-Oct	Wet	x				
Eleocharis ovata	Blunt Spike Rush	$1.50	$34.50	95,000	1′	Green	May-Sep	Wet	x	x			
Eleocharis palustris	Great Spike Rush	$1.25	$28.00	141,750	1′-2′	Green	Jul	Wet	x			x	
Elymus canadensis	Canada Wild Rye	$1.15	$1.00	4,258	3′-6′	Green	Jun-Sep	Dry/Medium	x	x			
Elymus hystrix	Bottlebrush Grass	$1.50	$28.00	4,700	3′-5′	Green	Jun-Jul	Medium		x	x		x
Elymus riparius	Riverbank Wild Rye	$1.15	$8.50	5,531	2′-4′	Green	Jul-Aug	Medium		x	x		
Elymus villosus	Silky Wild Rye	$1.15	$15.00	7,800	1′-3′	Green	Jul	Medium		x	x		
Elymus virginicus	Virginia Wild Rye	$1.15	$1.00	4,375	2′-4′	Green	Jun	Medium	x	x	x		
Epilobium coloratum	Cinnamon Willow Herb		$27.50	55,000	1′-3′	Pink	Jun-Sep	Wet	x	x	x		
Equisetum hyemale	Tall Scouring Rush	$1.25		-	1′-3′	Green	Apr-Aug	Medium	x	x	x		
Eryngium yuccifolium	Rattlesnake Master	$1.30	$12.00	8,000	3′-5′	White	Jul-Sep	Medium	x				x
Eupatorium coelestinum	Blue Mistflower	$1.75		315,000	1′-3′	Blue	Aug-Sep	Medium		x	x		
Eupatorium fistulosum	Hollow Joe-Pye Weed	$1.75	$22.50	78,125	5′-9′	Pink	Jul-Aug	Wet	x				
Eupatorium maculatum	Spotted Joe-Pye Weed	$1.30	$28.00	78,125	4′-7′	Pink	Jun-Oct	Wet	x	x			x
Eupatorium perfoliatum	Common Boneset	$1.30	$31.25	125,000	3′-5′	White	Jul-Oct	Wet	x	x		x	x
Eupatorium purpureum	Purple Joe-Pye Weed	$1.75	$36.00	48,000	3′-6′	Pink	Jul-Sep	Medium		x	x		
Eupatorium rugosum	White Snakeroot	$1.30	$30.00	150,000	2′-4′	White	Jul-Oct	Medium		x	x		
Eupatorium serotinum	Late Boneset	$2.50	$32.25	60,500	2′-5′	White	Jul-Oct	Medium	x	x			
Euphorbia corollata	Flowering Spurge	$1.50	$32.00	10,000	2′-4′	White	May-Oct	Dry/Medium	x	x			x
Euthamia graminifolia	Common Grass-Leaved Goldenrod	$1.50	$54.50	546,875	1′-4′	Yellow	Jul-Sep	Medium	x	x			
Filipendula rubra	Queen Of The Prairie	$1.75	$125.00	9,375	3′-6′	Pink	Jul	Medium/Wet	x				
Gentiana andrewsii	Bottle Gentian	$2.75	$75.00	227,000	1′-3′	Blue	Aug-Oct	Medium/Wet	x	x			
Gentiana flavida	Cream Gentian	$2.75	$55.00	180,000	3′	Cream	Aug-Oct	Medium	x	x			
Geranium maculatum	Wild Geranium	$3.50	$75.00	4,850	1′-2′	Lavender	Apr-Jul	Medium	x	x	x		
Geum triflorum	Prairie Smoke	$1.75	$150.00	33,000	1′	Pink	Apr-Jun	Dry	x				
Glyceria canadensis	Rattlesnake Grass		$35.00	74,000	2′-5′	Green	Jun	Wet	x	x			
Glyceria grandis	Reed Manna Grass	$2.25	$15.00	109,375	3′-5′	Green	Jun	Wet	x	x			
Glyceria striata	Fowl Manna Grass	$1.15	$16.50	125,000	1′-5′	Green	May-Jun	Medium/Wet	x	x	x		
Helenium autumnale	Sneezeweed	$1.30	$15.25	141,750	3′-5′	Yellow	Jul-Nov	Medium/Wet	x	x		x	x
Helianthus giganteus	Tall Sunflower	$1.25	$32.00	10,938	4′-12′	Yellow	Jul-Sep	Medium	x				
Helianthus grosseserratus	Sawtooth Sunflower	$1.75	$31.25	12,500	4′-12′	Yellow	Jul-Oct	Medium	x	x			
Helianthus mollis	Downy Sunflower	$1.30	$37.50	7,700	2′-5′	Yellow	Jul-Sep	Dry	x				
Helianthus occidentalis	Western Sunflower	$1.50	$40.00	13,000	2′-4′	Yellow	Aug-Sep	Dry	x	x			
Helianthus pauciflorus	Prairie Sunflower	$1.50	$17.75	15,625	3′-5′	Yellow/Brown	Jul-Oct	Dry	x				
Helianthus strumosus	Pale-Leaved Sunflower		$40.00	7,200	2′-5′	Yellow	Jul-Oct	Medium		x	x		
Helianthus tuberosus	Jerusalem Artichoke	$1.30		7,813	5′-10′	Yellow/Brown	Aug-Oct	Medium	x	x			
Heliopsis helianthoides	False Sunflower	$1.15	$8.25	6,500	4′-6′	Yellow	Jun-Oct	Medium	x	x			
Heracleum lanatum	Cow Parsnip	$2.25	$4.50	3,016	4′-10′	White	May-Jul	Medium	x	x	x		
Heuchera richardsonii	Prairie Alum Root	$1.75	$75.00	800,000	1′-3′	Green	May-Sep	Medium	x	x			x
Hibiscus laevis	Smooth Rose Mallow	$1.50	$27.00	2,188	3′-7′	White/Pink	Jul-Sep	Wet	x	x			
Hibiscus moscheutos	Swamp Rose Mallow	$1.50	$27.00	2,188	3′-7′	White/Pink/Red	Jul-Sep	Wet	x	x		x	
Hierochloe odorata	Sweet Grass	$1.50	$77.50	41,000	1′-3′	Green	Apr-Jun	Medium	x			x	
Hypericum kalmianum	Kalm's St. John's Wort	$2.25	$35.00	121,336	2′-4′	Yellow	Jun-Aug	Medium/Wet	x	x			
Hypericum pyramidatum	Great St. John's Wort		$9.25	220,000	3′-6′	Yellow	Jul-Aug	Medium	x	x		x	x
Hypericum prolificum	Shrubby St. John's Wort	$2.25	$13.00	140,000	3′-5′	Yellow	Jul	Dry	x	x			
Ilex verticillata	Winterberry	$1.10		9,375	up to 10′	White	Jun	Wet	x	x	x	x	
Iris virginica	Blue Flag	$1.50	$14.00	1,400	2′-3′	Purple	May-Jul	Wet	x	x	x		x
Juglans nigra	Black Walnut	$1.25			up to 90′	Green	Apr-Jun	Medium	x	x	x		
Juncus canadensis	Canadian Rush	$1.50	$42.00	281,250	1′-3′	Green	Jul-Sep	Wet	x			x	
Juncus effusus	Common Rush	$1.30	$22.50	281,000	1′-4′	Green	Jun	Wet	x	x			x
Juncus tenuis	Path Rush	$1.15	$65.00	62,188	6″-2′	Green	Jun	Medium	x	x	x		
Juncus tenuis v. dudleyi	Dudley's Rush	$1.30	$45.00	2,270,000	1′-2′	Green	May-Jul	Medium	x				
Juncus torreyi	Torrey's Rush	$1.15	$37.75	1,134,000	1′-2′	Green	Jun-Sep	Wet	x			x	
Justicia americana	Water Willow	$1.75		75,000	1′-2′	Lavender	Jun-Aug	Wet	x	x			
Koeleria pyramidata	June Grass	$1.30	$22.50	150,000	1′-2′	Green	May-Jul	Dry	x	x			x
Kuhnia eupatorioides	False Boneset	$1.50	$21.50	29,500	1′-4′	White	Aug-Oct	Dry	x	x			
Lathyrus palustris	Marsh Vetchling		$28.00	750	1′	Pink/Purple	May-Sep	Wet	x	x		x	
Leersia oryzoides	Rice Cut Grass	$1.15	$18.00	94,500	2′-5′	Green	Jul-Sep	Wet	x	x	x		x
Lespedeza capitata	Round-Headed Bush Clover	$1.50	$18.75	10,000	2′-4′	White	Jul-Sep	Dry	x	x			
Liatris aspera	Rough Blazing Star	$1.75	$37.50	13,000	2′-3′	Pink	Jul-Nov	Dry	x	x		x	x
Liatris cylindracea	Cylindrical Blazing Star	$2.25	$50.00	13,300	1′-2′	Pink	Jul-Oct	Dry	x	x			
Liatris pycnostachya	Prairie Blazing Star	$1.75	$19.50	10,750	2′-4′	Pink	Jul-Sep	Medium	x				x
Liatris scariosa v. nieuwlandii	Savanna Blazing Star	$1.75	$35.50	13,000	3′-5′	Pink	Aug-Oct	Dry	x	x			
Liatris spicata	Marsh Blazing Star	$1.75	$31.00	12,000	3′-5′	Pink	Jul-Sep	Medium/Wet	x				
Lindera benzoin	Spicebush	$1.25		4,688	up to 15′	Yellow	Apr-May	Medium/Wet		x	x		
Liquidambar styraciflua	Sweet Gum	$1.25		3,875	up to 100′	Green	May-Jul	Medium	x	x	x	x	
Liriodendron tulipifera	Tulip Tree	$1.00		625	up to 120′	Yellow	May-Jul	Medium	x	x	x		
Lobelia cardinalis	Cardinal Flower	$1.50	$95.00	437,500	2′-5′	Red	Jul-Oct	Wet	x	x	x		
Lobelia inflata	Indian Tobacco	$1.50		495,000	1′-3′	Cream	Jun-Oct	Medium	x	x	x		
Lobelia siphilitica	Great Blue Lobelia	$1.50	$45.00	520,000	1′-4′	Blue	Jul-Oct	Medium/Wet	x	x			
Lobelia spicata	Pale Spiked Lobelia	$2.50	$90.00	90,000	1′-3′	Lavender	May-Aug	Medium	x	x			
Ludwigia alternifolia	Seedbox	$2.25	$32.50	281,250	2′-3′	Yellow	Jun-Aug	Medium/Wet	x				

2009 JFNew NATIVE PLANT SPECIES

BOTANICAL NAME	COMMON NAME	PRICE PER PLANT	PRICE PER PLS OZ.	APPROX. SEEDS/OZ.	HEIGHT	BLOOM COLOR	BLOOM TIME	SOIL MOISTURE	FULL SUN	PARTIAL SUN	SHADE	SALT TOLERANT	DEER RESISTANT
Lupinus perennis	Wild Lupine	$1.50	$30.75	1,000	1'-2'	Blue/Violet	Apr-Jul	Dry	x	x			x
Lycopus americanus	Common Water Horehound	$1.50	$18.00	235,000	1'-2'	White	Jul-Sep	Wet	x	x			x
Lythrum alatum	Winged Loosestrife	$1.50	$65.00	3,000,000	2'-3'	Purple	Jun-Sep	Medium/Wet	x				
Mentha arvensis	Wild Mint	$1.50	$65.00	315,000	1'-3'	White	Jul-Sep	Wet	x				x
Mertensia virginica	Virginia Bluebells	$2.75	$70.00	9,650	1'-2'	Blue	Mar-May	Medium/Wet		x	x		
Mimulus ringens	Monkey Flower	$1.15	$18.75	283,500	2'-4'	Lavender	Jun-Sep	Wet	x	x			
Monarda fistulosa	Wild Bergamot	$1.15	$22.50	78,000	2'-5'	Lavender	Jul-Sep	Dry/Medium	x	x			x
Monarda punctata	Horse Mint	$1.75	$20.00	94,000	1'-2'	Cream	Jul-Sep	Dry	x	x			x
Napaea dioica	Glade Mallow		$7.50	4,125	3'-7'	White	Jun-Jul	Medium	x	x			
Nelumbo lutea	Lotus	$7.50	$1.25	32		Cream	Jul-Aug	Wet	x				
Nuphar advena	Yellow Pond Lily	$6.25		-		Yellow	May-Sep	Wet	x	x		x	
Nymphaea odorata	White Water Lily	$3.75		-		White	May-Sep	Wet	x	x			
Nyssa sylvatica	Black Gum	$1.25		9,375	up to 100'	Green	May-Jul	Medium	x	x	x	x	
Oenothera biennis	Common Evening Primrose		$3.75	55,000	2'-6'	Yellow	Jun-Nov	Medium	x	x			
Opuntia humifusa	Eastern Prickly Pear	$3.75	$37.00	1,344	6"	Yellow	Jun-Jul	Dry	x	x			x
Osmorhiza claytonii	Hairy Sweet Cicely	$2.75	$40.00	2,400	1'-3'	White	May-Jun	Medium			x		
Oxypolis rigidior	Cowbane		$40.00	10,240	2'-5'	White	Jul-Sep	Wet	x	x			
Panicum rigidulum	Munro Grass		$1.25	40,625	1'-3'	Green	Jul-Aug	Medium/Wet	x	x			
Panicum virgatum	Switch Grass	$1.15	$0.95	28,356	3'-5'	Green	Jun-Oct	Medium/Wet	x	x		x	x
Parthenium integrifolium	Wild Quinine	$1.50	$15.75	6,800	2'-3'	White	Jun-Sep	Dry	x				
Parthenocissus quinquefolia	Virginia Creeper	$1.50		1,875	Vine	Green	Jul-Aug	Medium	x	x	x	x	
Pedicularis lanceolata	Fen Betony		$85.00	32,500	1'-3'	Yellow	Aug-Oct	Wet	x	x			
Peltandra virginica	Arrow Arum	$4.25	$14.75	42	2'-5'	Green	Jun-Jul	Wet	x	x	x		
Penstemon digitalis	Foxglove Beard Tongue	$1.30	$14.50	115,000	2'-4'	White/Pink	May-Jul	Medium	x	x			x
Penstemon hirsutus	Hairy Beard Tongue	$1.30	$22.50	125,000	1'-2'	Lavender	May-Jul	Dry	x	x			
Penstemon laevigatus	Smooth Beard Tongue	$1.75	$32.00	90,000	2'-4'	White	May-Jun	Dry	x	x			
Penthorum sedoides	Ditch Stonecrop	$1.50	$18.00	36,063	1'-3'	Green	Jun-Oct	Wet	x	x			
Phlox divaricata	Woodland Phlox	$2.75		12,000	1'-2'	Blue	Apr-Jun	Medium		x	x		
Phlox pilosa	Sand Prairie Phlox	$2.25	$135.00	18,750	1'-2'	Pink	May-Aug	Dry/Medium	x	x			
Physocarpus opulifolius	Ninebark	$0.90	$19.75	34,000	up to 10'	White	May-Jun	Medium/Wet	x	x			
Physostegia virginiana	Obedient Plant	$1.50	$45.00	25,000	2'-5'	Pink	Aug-Oct	Medium/Wet	x			x	
Physostegia virginiana v. arenaria	Prairie Obedient Plant		$55.00	25,000	2'-4'	Pink	Jul-Sep	Dry/Medium	x				
Platanus occidentalis	Sycamore	$0.90		7,188	up to 100'	Green	Apr-Jun	Medium/Wet	x	x	x	x	
Polygonatum biflorum	Smooth Solomon's Seal		$22.50	1,200	1'-4'	Green/White	May-Jul	Medium		x	x		x
Polygonum amphibium v. stipulaceum	Water Knotweed	$1.15	$33.75	3,125	1'-2'	Rose	Jun-Oct	Wet	x	x			
Polygonum pensylvanicum	Pinkweed	$1.15	$9.25	4,063	1'-5'	Pink	Jun-Oct	Medium/Wet	x	x		x	
Pontederia cordata	Pickerel Weed	$4.75	$13.50	1,250	1'-3'	Violet	Jun-Sep	Wet	x	x			
Potamogeton natans	Common Pondweed	$2.25		22,500		Green	Jun-Jul	Wet	x	x			
Potamogeton nodosus	Long-Leaved Pondweed	$1.15		22,500		Green	Jun-Jul	Wet	x	x			
Potamogeton pectinatus	Sago Pondweed	$2.25		22,500		Green	May-Sep	Wet	x	x		x	
Potentilla arguta	Prairie Cinquefoil	$1.50	$18.75	175,000	1'-3'	White	Jun-Sep	Dry	x				x
Prenanthes altissima	Tall White Lettuce	$1.15		68,750	2'-7'	Cream	Sep-Oct	Medium			x		
Puccinellia pallida	Pale Manna Grass	$1.75		125,000	2'-4'	Green	Jun	Wet	x	x	x		
Pycnanthemum muticum	Broad-Leaved Mountain Mint	$2.50		331,250	2'-4'	White	Aug-Sep	Medium	x				
Pycnanthemum tenuifolium	Mountain Mint	$1.50	$40.00	375,000	1'-3'	White	Jun-Aug	Dry/Medium	x	x			x
Pycnanthemum virginianum	Common Mountain Mint	$1.30	$42.50	331,250	1'-3'	White	Jun-Oct	Medium/Wet	x	x			
Quercus alba	White Oak	$0.90		4	up to 100'	Green/Yellow	Apr-Jun	Dry/Medium	x	x	x	x	
Quercus bicolor	Swamp White Oak	$0.90		6	up to 70'	Green/Yellow	May	Medium/Wet	x	x	x	x	
Quercus macrocarpa	Bur Oak	$0.90		5	up to 80'	Green/Yellow	Apr-Jun	Medium	x	x	x	x	
Quercus palustris	Pin Oak	$0.90		19	up to 90'	Green/Yellow	Apr-May	Medium/Wet	x	x	x	x	
Quercus rubra	Red Oak	$0.90		6	up to 90'	Green/Yellow	May	Medium	x	x	x	x	
Quercus velutina	Black Oak	$1.00		9	up to 80'	Green/Yellow	Apr-Jun	Dry/Medium	x	x	x		
Ranunculus fascicularis	Early Buttercup	$1.75	$85.00	25,000	1'-2'	Yellow	Apr-May	Dry	x	x			
Ratibida pinnata	Yellow Coneflower	$1.15	$6.75	25,250	3'-6'	Yellow/Brown	Jul-Oct	Dry/Medium	x				x
Rhynchospora macrostachya	Horned Beak Rush		$55.00	100,000	1'-2'	Brown	May-Jun	Wet	x			x	
Rosa carolina	Pasture Rose	$2.50	$32.00	2,900	1'-3'	Pink	Jun-Sep	Dry	x	x			
Rosa palustris	Swamp Rose	$2.50	$14.75	1,600	2'-7'	Pink	Jun-Aug	Wet	x	x	x		
Rudbeckia fulgida	Showy Black-Eyed Susan	$2.25	$11.50	31,000	2'-3'	Yellow/Brown	Aug-Sep	Medium	x				
Rudbeckia hirta	Black-Eyed Susan	$1.15	$3.75	110,000	1'-3'	Yellow/Brown	May-Oct	Dry/Medium	x	x		x	x
Rudbeckia laciniata	Wild Golden Glow	$1.75	$18.50	15,000	3'-10'	Yellow	Jul-Nov	Wet	x	x	x		
Rudbeckia subtomentosa	Sweet Black-Eyed Susan	$1.50	$15.75	46,000	3'-5'	Yellow/Brown	Aug-Sep	Medium	x	x			
Rudbeckia triloba	Brown-Eyed Susan	$1.30	$18.75	33,000	2'-5'	Yellow/Brown	Aug-Oct	Medium	x	x			
Rumex altissimus	Pale Dock		$11.50	15,000	2'-4'	Green	May-Jul	Medium/Wet	x	x			
Rumex orbiculatus	Great Water Dock	$2.25	$35.00	9,063	2'-5'	Green	May-Sep	Medium/Wet	x	x		x	
Rumex verticillatus	Swamp Dock	$2.25	$15.00	9,688	2'-5'	Green	Jun-Sep	Wet	x	x	x		
Sabatia angularis	Rose Gentian	$2.75	$150.00	406,250	1'-3'	Pink	Jul-Nov	Medium	x				
Sagittaria latifolia	Common Arrowhead	$1.25	$25.00	56,700	1'-4'	White	Jun-Sep	Wet	x	x			
Sambucus canadensis	Elderberry	$0.90		9,375	up to 15'	White	Jun-Aug	Medium/Wet	x	x	x	x	
Saururus cernuus	Lizard's Tail	$2.25	$45.00	343,750	2'-4'	White	Jun-Aug	Wet		x	x		
Schizachyrium scoparium	Little Bluestem	$1.15	$2.25	8,800	2'-4'	Green	Aug-Sep	Dry/Medium	x	x		x	x
Scirpus acutus	Hard-Stemmed Bulrush	$1.15	$24.50	20,000	4'-6'	Brown	Apr-Aug	Wet	x			x	x
Scirpus atrovirens	Dark Green Rush	$1.15	$14.50	187,500	3'-5'	Green	Jun-Aug	Medium/Wet	x				x

BOTANICAL NAME	COMMON NAME	PRICE PER PLANT	PRICE PER PLS OZ.	APPROX. SEEDS/OZ.	HEIGHT	BLOOM COLOR	BLOOM TIME	SOIL MOISTURE	FULL SUN	PARTIAL SUN	SHADE	SALT TOLERANT	DEER RESISTANT
Scirpus cyperinus	Wool Grass	$1.15	$12.50	562,500	3′-5′	Green	Jun-Sep	Medium/Wet	x			x	x
Scirpus fluviatilis	River Bulrush	$1.50	$18.75	275,000	3′-7′	Green	May-Jul	Wet	x				x
Scirpus pendulus	Red Bulrush	$2.25	$42.50	378,125	2′-4′	Green	May-Jun	Wet	x				x
Scirpus pungens	Chairmaker's Rush	$1.30	$18.00	125,000	2′-5′	Brown	May-Sep	Wet	x			x	x
Scirpus validus	Great Bulrush	$1.15	$18.75	37,813	4′-8′	Brown	May-Aug	Wet	x			x	x
Scrophularia marilandica	Late Figwort	$1.50	$32.00	125,000	3′-7′	Brown	Jun-Oct	Medium		x	x		
Senecio aureus	Golden Ragwort	$1.50		69,375	1′-3′	Yellow	Apr-Jun	Wet	x	x	x		
Senna hebecarpa	Wild Senna	$1.30	$9.75	1,400	3′-5′	Yellow	Jul-Aug	Medium/Wet	x	x			
Silene regia	Royal Catchfly	$1.75	$125.00	23,000	2′-4′	Red	Jul-Aug	Dry/Medium	x				
Silene stellata	Starry Campion	$2.75	$65.00	30,000	1′-2′	White	Jul-Oct	Medium	x	x	x		
Silene virginica	Fire Pink	$3.25	$95.00	26,000	1′	Red	May-Jul	Medium		x	x		
Silphium integrifolium	Rosin Weed	$1.30	$18.50	4,000	2′-6′	Yellow	Jul-Sep	Medium	x				x
Silphium laciniatum	Compass Plant	$1.75	$18.50	650	3′-8′	Yellow	Jun-Sep	Dry/Medium	x				x
Silphium perfoliatum	Cup Plant	$1.25	$14.25	2,100	3′-10′	Yellow	Jul-Oct	Medium/Wet	x	x			
Silphium terebinthinaceum	Prairie Dock	$1.75	$28.00	1,100	3′-8′	Yellow	Jun-Sep	Dry/Medium	x				x
Sisyrinchium angustifolium	Stout Blue-Eyed Grass	$3.25	$100.00	28,000	1′	Blue	May-Aug	Medium	x	x			
Sisyrinchium atlanticum	Eastern Blue-Eyed Grass	$3.25		32,000	1′	Blue	May-Jul	Medium	x	x			
Sium suave	Tall Water Parsnip	$2.25	$35.00	9,500	2′-6′	White	Jul-Sep	Wet	x	x	x	x	
Smilacina racemosa	Feathery False Solomon's Seal	$5.25	$30.00	900	1′-3′	White	Apr-Jun	Medium		x	x		
Solidago caesia	Blue-Stemmed Goldenrod	$1.50	$85.00	546,875	1′-2′	Yellow	Sep-Oct	Medium		x	x		
Solidago canadensis	Canadian Goldenrod		$14.75	140,625	1′-5′	Yellow	Jul-Sep	Medium	x	x			
Solidago canadensis v. scabra	Tall Goldenrod		$12.75	140,625	2′-7′	Yellow	Aug-Oct	Medium	x	x			
Solidago flexicaulis	Broad-Leaved Goldenrod	$2.25	$125.00	84,000	1′-3′	Yellow	Aug-Oct	Medium		x	x		
Solidago juncea	Early Goldenrod	$1.50	$45.00	140,625	2′-4′	Yellow	Jul-Sep	Medium	x	x			
Solidago nemoralis	Old-Field Goldenrod	$1.75	$28.75	240,000	1′-3′	Yellow	Aug-Nov	Medium	x	x			
Solidago ohioensis	Ohio Goldenrod	$1.75	$32.50	90,000	2′-4′	Yellow	Jul-Oct	Medium	x	x			
Solidago patula	Swamp Goldenrod	$1.50	$55.00	71,875	3′-6′	Yellow	Aug-Oct	Wet	x	x	x		
Solidago riddellii	Riddell's Goldenrod	$1.25	$22.75	94,500	2′-5′	Yellow	Sep-Nov	Medium	x				
Solidago rigida	Stiff Goldenrod	$1.30	$15.25	46,000	1′-5′	Yellow	Jul-Oct	Dry/Medium	x	x		x	x
Solidago rugosa	Rough Goldenrod	$1.50	$18.75	92,500	2′-5′	Yellow	Aug-Oct	Medium	x	x	x		
Solidago speciosa	Showy Goldenrod	$1.50	$25.75	105,000	1′-3′	Yellow	Jul-Oct	Dry	x	x		x	
Solidago ulmifolia	Elm-Leaved Goldenrod	$1.15	$27.00	130,000	3′	Yellow	Jul-Oct	Medium		x	x		
Sorghastrum nutans	Indian Grass	$1.15	$1.50	8,516	4′-9′	Green	Aug-Sep	Medium	x				x
Sparganium americanum	American Bur Reed	$1.50	$18.50	975	2′-5′	Green	Jun-Aug	Wet	x	x			
Sparganium eurycarpum	Common Bur Reed	$1.50	$18.50	596	2′-6′	Green	May-Aug	Wet	x				
Spartina pectinata	Prairie Cord Grass	$1.15	$15.00	15,750	3′-7′	Green	Jul-Aug	Medium/Wet	x			x	
Spiraea alba	Meadowsweet	$2.25	$65.00	390,625	3′-6′	White	Jun-Sep	Medium/Wet	x	x		x	
Spiraea tomentosa	Steeplebush	$2.25	$65.00	390,625	2′-5′	Pink	Jul-Sep	Medium/Wet	x	x		x	
Sporobolus heterolepis	Prairie Dropseed	$1.75	$25.00	14,000	2′-3′	Green	Aug-Sep	Medium	x			x	
Stipa spartea	Porcupine Grass	$2.50	$45.00	680	2′-4′	Green	Jun	Dry	x	x			
Stylophorum diphyllum	Celandine Poppy	$3.25	$60.00		2′-3′	Yellow	Apr-Jun	Medium		x	x		
Taxodium distichum	Bald Cypress	$0.90		313	up to 120′	Green	May-Jun	Wet	x	x	x	x	
Tephrosia virginiana	Goat's Rue	$2.50	$35.00	2,500	1′-3′	Pink/Cream	Jun-Jul	Dry	x	x			
Teucrium canadense	Germander		$27.50	19,500	1′-3′	Purple	Jul-Sep	Medium	x	x		x	x
Thalictrum dasycarpum	Purple Meadow Rue	$2.50	$40.00	13,500	3′-6′	Cream	May-Jul	Medium	x	x			
Thalictrum dioicum	Early Meadow Rue	$1.50	$75.00	7,300	1′-3′	Green	Apr-May	Medium		x	x		
Tradescantia ohiensis	Common Spiderwort	$1.75	$35.50	8,000	2′-4′	Blue	May-Oct	Medium	x	x			x
Triadenum virginicum	Marsh St. John's Wort	$3.50	$125.00	230,000	1′-2′	Pink	Jul-Sep	Wet	x	x		x	
Triglochin maritimum	Common Bog Arrow Grass	$7.00		14,063	1′-2′	White	May-Sep	Wet	x				
Triosteum aurantiacum	Early Horse Gentian		$11.50	984	2′-4′	Maroon	Apr-Jun	Medium		x	x		
Typha angustifolia	Narrow-Leaved Cattail	$1.30		375,000	3′-7′	Green/Brown	Jun-Jul	Wet	x	x		x	
Typha latifolia	Broad-Leaved Cattail	$1.15	$5.25	375,000	3′-6′	Green/Brown	Jun-Jul	Wet	x	x		x	
Verbena hastata	Blue Vervain	$1.30	$9.75	125,000	3′-6′	Violet	Jun-Sep	Medium/Wet	x				
Verbena stricta	Hoary Vervain	$1.50	$11.25	32,000	2′-4′	Purple	Jun-Sep	Dry	x			x	
Verbesina alternifolia	Wingstem	$1.30	$12.00	9,063	3′-7′	Yellow	Jul-Oct	Medium/Wet		x	x		x
Vernonia fasciculata	Common Ironweed	$1.50	$19.50	21,875	3′-7′	Purple	Jul-Oct	Medium/Wet	x	x			
Vernonia gigantea	Smooth Tall Ironweed	$1.75	$24.50	24,000	4′-9′	Purple	Jul-Oct	Medium/Wet	x				
Vernonia missurica	Missouri Ironweed	$1.75	$25.75	20,900	3′-5′	Purple	Jul-Sep	Medium	x				
Veronicastrum virginicum	Culver's Root	$1.50	$48.50	750,000	3′-6′	White	Jun-Aug	Medium	x	x			
Viburnum dentatum	Arrow-Wood	$1.25			up to 15′	White	May-Jun	Medium	x	x	x		
Viburnum lentago	Nannyberry	$0.90		375	up to 20′	White	Apr-Jun	Medium/Wet	x	x	x	x	
Viburnum opulus v. americanum	American Highbush Cranberry	$1.10		81	up to 15′	White	May-Jun	Medium/Wet	x	x	x	x	
Viburnum prunifolium	Black Haw	$0.90		469	up to 20′	White	May-Jun	Dry/Medium	x	x	x	x	
Viola lanceolata	Lance-Leaved Violet	$1.50		156,250	6″	White	Apr-Jun	Medium/Wet	x	x			
Viola pedata	Bird's Foot Violet	$2.75		25,000	1′-2′	Lavender	Apr-Aug	Dry	x	x			
Zizania aquatica	Wild Rice		$1.00	4,375	3′-7′	Green	Jul-Sep	Wet	x	x		x	
Zizia aptera	Heart-Leaved Meadow Parsnip	$2.25	$22.50	9,000	1′-2′	Yellow	Apr-May	Dry	x	x	x		
Zizia aurea	Golden Alexanders	$1.30	$20.00	12,000	1′-3′	Yellow	Apr-Jun	Medium	x	x	x	x	

MAINTAINING A NATURAL ECOSYSTEM

Natural ecosystems are dynamic and require a solid maintenance and management plan that is both flexible and accommodates the development of the site. These plans often take time to establish and require patience, but are a critical step in the overall success of a natural ecoystem design. At JFNew, we ensure optimal success and keep the project on target with regular maintenance and monitoring. This allows us to protect new plantings from invasive species, check for optimal water levels and identify other management actions needed.

Native plants tend to germinate and develop at a slower rate than ornamental perennials or turf grass. Regular maintenance during the native plant establishment period, usually three to five years, greatly improves the success of the project.

Species such as Canada Thistle, Reed Canary Grass, Common Reed and Purple Loosestrife are invasive weeds that establish quickly in a newly disturbed area. Upon establishment, these species spread exponentially to nuisance levels, crowd out other desirable plants, and lessen the overall diversity and aesthetics of a site. A focused and dedicated maintenance program will reduce the competition from weed species, allowing desirable native plants to develop and thrive.

The maintenance of a natural ecosystem can include:

- over seeding
- supplemental planting
- regular site inspection and monitoring
- water control and temporary irrigation
- mowing
- herbicide application
- prescribed burning

The Jimmy F. New Foundation

The Jimmy F. New Foundation was established in 2003 as a 501(c)(3) non-profit foundation to honor company founder Jim New's commitment to the conservation of natural resources. The Foundation board consists of external directors and JFNew employees who award annual grants to environmental and natural resource projects, particularly those with a focus on the conservation of natural areas, wetlands and wildlife habitats. While the Foundation is independent of JFNew, there is an obvious connection directed by the employees who established it. In order to continue our ongoing stewardship efforts, JFNew provides annual contributions to the Foundation by matching employee contributions dollar-for-dollar.

Mission and Objective

The Foundation's mission is to provide resources to increase the knowledge, awareness and conservation of our native habitats and natural communities. Likewise, the Foundation's goal is to fund projects that conserve and/or improve natural areas with a focus on projects in the Great Lakes region. The Board of Directors of the Jimmy F. New Foundation selects priority projects in order to make the greatest possible positive impact with our financial resources.

Jimmy F. New Foundation
Selected Projects Funded in 2008

Center for North American Bat Research & Conservation
White Nose Syndrome Research

Damar Services, Indianapolis, Indiana
Multi-Sensory Native Garden for Autistic Children

Miami University, Ohio
Edge of the Farm Restoration Projects

Emmet County, Michigan
Rain Garden Demonstration Project

Manowe Camp, Sturgis, Michigan
Wetland Education Program for Summer Camp

BOLD Chicago Institute
Dolton Prairie Wetland Site

Bowen Environmental Studies Team High School
Prairie Restoration

Eden Place Nature Center, Chicago, Illinois
Native Plantings

Creekside Early Childhood Center, West Chester, Ohio
Sensory Garden

Visit www.JFNfoundation.org to submit project ideas or request funding. We also gladly accept tax deductible donations.

A CATALOG'S JOURNEY...

We sought to reduce our environmental impact for this catalog, and faced hurdles along the way. Largest among them was the cost of sustainable printing practices. By reducing the page size and page count we were able to specify FSC certified paper with 30 percent recycled content that is manufactured with wind power at a cost that was within arm's reach of our original printing budget. Changing our catalog design and printing methods:

- **Reduced per-catalog paper usage by 28.7 percent**
- **Kept 49 trees from being harvested**
- **Prevented over 20,000 gallons of wastewater**
- **Averted 4,525 pounds of greenhouse gas emissions**
- **Accepted 0.0 pounds of pulp from clear-cut forest land**
- **Used renewable energy to save emissions equating to driving 8,500 miles in an average car**

Why FSC Certified Paper? The Forestry Stewardship Council oversees and certifies sustainable forest management practices for over 250 million acres of land worldwide. These forests are sustainably harvested and will remain healthy, vital ecosystems that preserve biodiversity and sequester carbon long into the future. We believe specifying FSC certified paper was the right choice for this project.

JFNew STATEMENT OF SUSTAINABILITY

To provide the highest quality ecological services while advancing our leadership in corporate social responsibility by:

1. **Identifying, minimizing and reporting our environmental footprint.**
2. **Leveraging our mission and culture to create innovative environmental solutions.**
3. **Influencing sustainable choices by educating and inspiring our employees, clients, suppliers and communities.**

1% FOR THE PLANET℠

MEMBER

1% For The Planet is a growing global movement of companies that donate 1% of their sales to a network of environmental organizations worldwide.

We have only just begun our journey, and here is a glimpse of our sustainability plan going forward:

- JFNew has become a member of 1% For The Planet, and will contribute 1 percent of our nursery sales to support environmental causes. We urge you to consider making a similar pledge – visit **www.onepercentfortheplanet.org** for more information.
- In 2009 we will publish our first annual Corporate Sustainability Report in which we will outline progress made and challenges remaining on our 10 Key Performance Indicators (KPIs). The report will follow the Global Reporting Initiative (GRI) standard and will be available online when it is complete.
- Conservation will remain at the core of our sustainability initiative, and we will continue to seek options for eliminating or minimizing resource consumption. Areas such as electronic communication and green building technologies will be targeted to further improve our KPIs.
- We have set a corporate target for revenue contribution from new products and services, and developing solutions that solve environmental challenges is central to meeting this target. We have multiple research and development projects underway that will create innovative options to help meet our clients' sustainable development needs and thus extend our beneficial impact.

JOIN AN AWARD-WINNING TEAM!

A recipient of the Samaritan Award and a Winning Workplaces and *The Wall Street Journal* Top Small Workplaces Finalist, JFNew is committed to fostering its workforce and creating a family-friendly work environment. JFNew's goal is to become an employer of choice by offering its employees:

- **A flexible work environment**
- **Competitive benefits**
- **Opportunities for advancement**
- **Competitive pay**
- **Tuition reimbursement**
- **Professional development**

Our most important asset is our people, and, as a result, we are dedicated to creating a culture of open-employee feedback and reward and recognition. JFNew uses a number of employee feedback tools to better understand our employees perception of working at JFNew. An employee survey revealed that 87 percent of employees have a high level of overall satisfaction with JFNew as an employer. Through our extensive reward and recognition program, we are able to identify employees who distinguish themselves in their pursuit of service excellence.

Delivering the highest level of service to our clients and realizing continued growth mean that we must hire, train and support the industry's best. Our scientists, engineers, botanists, project managers, biologists, restoration ecologists, business professionals and administrative staff are hired as a result of their superior talent and fit with the company's culture.

As a company, we recognize that one of the most important decisions we make involves the selection of those individuals we invite to join the JFNew team. Whether you are looking for an internship opportunity or have years of experience, we encourage you to investigate available employment opportunities with our award-winning team by applying online at www.JFNew.com.

APPLY ONLINE

JFNew has openings for qualified individuals in various capacities across our service area. Visit our web site to view an updated list of open positions and to apply online for immediate consideration.

Simply click Careers at www.JFNew.com for additional details.

JFNew

SCIENTIST FOCUSES ON EARTH'S LIFE SUPPORT SYSTEMS

By Rod Ginter

If someone at NASA or the SETI Institute had found solid evidence of life on another planet, I probably would not be working for JFNew as an ecological consultant today. Ironically, the development of my interest in space exploration and my past work on extended spaceflight life support systems has slowly shifted my focus back to life here on Earth.

For all the centuries we have been studying the stars and planets, and for all the fantastic new technologies we have developed to search for extra-terrestrial life, we have found very little. By all available evidence, the planet we inhabit is unique in its capacity to support life and, is therefore, precious.

My focus is to now understand and protect the terrestrial life-support systems we all depend upon. We still do not fully understand the dynamic interactions or the limitations of the water, the nitrogen-oxygen atmosphere, the soils and the organisms that sustain us; yet we often take these unique life-support systems for granted because they have always sustained us and we expect they always will. Sadly, we have squandered them recklessly in the past.

In designing spaceflight life-support systems for spacecraft and space stations, the goal is a perfect closed loop — to use and reuse every resource. We are getting very close to the perfect closed loop on the newest spacecraft with nothing wasted, nothing lost.

I believe we have to adopt these design criteria for our own life-support systems here on Earth. We all need to be terrestrial life-support system scientists, whether professional or amateur.

We all need to develop an understanding and appreciation of the complex interactions that sustain us and our fellow inhabitants of this planet. I have come to the conclusion that these terrestrial systems are far more complex, and far more interesting and worthy of study than those aboard the most advanced interplanetary vehicles.

I will admit, it is a daunting task at times — one that will require great innovation and energy from private enterprise, intelligence and foresight from government, and a groundswell of public support and understanding. I chose to work in this field, and in particular for JFNew, because we are leading the way in the development of this understanding. JFNew is proving that it can be good business to design human systems that integrate with and protect our natural ecosystems, and I am very happy to be here in this dynamic mix and part of this innovative team.

Rod Ginter, Ecological Resource Specialist, was the 2007 JFNew Employee of the Year. This award is given to the employee who best embodies JFNew's values in the areas of environmental and business ethics, client satisfaction, proactive and respectful communication and efficiency.

AT JFNew, A SOUND ENVIRONMENT IS SOUND BUSINESS

This catalog has received an FSC Mixed Sources certification.

Products with a Mixed Source label support the development of responsible forest management worldwide. The wood comes from FSC certified well managed forests, company controlled sources and / or recycled material.

THE JFNew COMMITMENT

Ongoing development exerts increasing pressure on natural resources. Helping clients preserve and restore these important resources has been at the core of our mission since 1989. Whether your challenge is watershed planning, regulatory compliance, wetland or stream restoration, low impact development or sustainable site design, JFNew has the innovative solutions to meet your needs. JFNew's commitment to sound environmental business ethics has helped advance the emerging design philosophy that balances environmental stewardship and economic value. We work hand-in-hand with nature to bring your project out of conception and into completion.

1% FOR THE PLANET MEMBER

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