

# Attachment A

## Site Inspections

Offerors are strongly encouraged to schedule on-site meetings with Nebraska Game & Parks Commission (NGPC) area biologists to visit proposed project sites for Task Orders between the dates of February 24 and March 8, 2017 by contacting the NGPC area biologist listed with each specification and scheduling an appointment. Offerors are responsible for fully understanding the project site details, project specifications and their ability to deliver the contracted outcomes. Site visits will occur on normal work days during normal work hours for the employees of the NGPC. It is strongly suggested that Offerors schedule a site visit with NGPC staff prior to submitting an offer.

## Project Scope

Management activities will be implemented on Wildlife Management Areas (WMA) and are intended to restore, maintain, or improve the wildlife habitat quality provided by woody and herbaceous vegetation for associated flora and fauna. Criteria will be established for each management activity to ensure that the objectives of the activity are in accordance with the overall WMA plan and protects the integrity of the habitat condition of the site.

The Task Order issued will prescribe the necessary Management Activities to achieve the intended purpose on the WMA. Those Management Activities will be based on the recommendations provided by Pheasants Forever, Inc. in consultation with the NGPC, Wildlife Division staff. The Task Order will specify what work items will need to be implemented. The contractor will be provided with a written specification of the activity, an aerial photograph of the work sites and the location, timing and acres of work to be done. This will document the deliverables that apply to each Task Order.

Based on the Task Order, the management needs will be documented and ordered from the contractor after project funding has been procured by Pheasants Forever, Inc.

## Project Specifics

1. The start date for these services is estimated to be March 17, 2017 or at the time a Task Order is issued.
2. The contractor will carry out the duties required to complete the management work items identified in the Task Order for WMA sites. The contractor shall obtain all necessary local, state and federal permits/certifications that apply.
3. During implementation of the work items the contractor will:
  - a) Maintain contact with the Pheasants Forever, Inc. Program Manager;
  - b) Notify the NGPC biologist a minimum of 48 business hours (Monday through Friday) prior to starting work on any project;
  - c) Ensure compliance with Task Order requirements;
  - d) Complete work based on the timeframes agreed to in the Task Order;
  - e) Contact Pheasants Forever, Inc. upon completion of the work per Task Order;
  - f) Work with the Pheasants Forever, Inc. Program Manager in preparing and completing the application for payment and associated vendor information within 40 working days after completing the work.
4. The contractor will meet with the Pheasants Forever, Inc. and/or NGPC staff prior to starting the activity. During this meeting, the Contractor will be briefed by the NGPC staff on the management activity associated with the specifications that will take place and any specific details related to that Task Order.
5. The Contractor will check out and certify completion of the work with the NGPC area biologist. This certification will then be provided to Pheasants Forever, Inc. as part of the process for submitting an invoice for payment.
6. The invoice must be provided to Pheasants Forever, Inc. using the format provided to the contractor and with the original signature of the NGPC or Pheasants Forever, Inc. area biologist certifying that work was completed according to specifications and meeting their approval.

## MINIMUM AND MAXIMUM CONTRACT AMOUNTS

During the contract period, Pheasants Forever, Inc. shall place orders totaling a minimum of 1 acre with no set maximum acres per work item per Task Order.

## Statement of Qualifications

Pheasants Forever, Inc. is inviting individuals and organizations to submit proposals with a statement of qualifications that outline their experience and qualifications to complete management activities as described above. If any of the activities described in this RFP require specific operator certifications, your application for that activity indicates you have the required certification to perform the work. Please indicate any special certificates held to apply any of the practices in this announcement.

Successful respondents will:

1. Demonstrate the knowledge, skills, and abilities related to operating farm and forestry equipment including tractors, all-terrain vehicles, chainsaws, forestry mowers, seed drill and sprayer calibrations, etc. which will include a description of past work experience and training. An example would be holding a current and valid commercial pesticide applicators license.

## PERIOD OF PERFORMANCE

The period of performance of this contract is from the effective date of the contract: March 17, 2017 to February 28, 2018. Refer to "Attachment A" for specific dates related to the management practice. Pheasants Forever, Inc. reserves the right to extend the contract past the date of the contract award period.

## POST AWARD CONFERENCE

A post award conference with the successful offeror is required. It will be held within 40 days after the date of contract award. The conference will be held at:

Pheasants Forever, Inc.                      or                      Via Conference Call  
PO Box 146  
Nelson, NE 68961

## ORDERING

- (a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or Task Orders by the individuals or activities designated in the RFP. Such orders may be issued from March 17, 2017 to February 28, 2018. Refer to "Attachment A" for specific dates related to the management practice.
- (b) All delivery orders or Task Orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.
- (c) If mailed, a delivery order or Task Order is considered "issued" when Pheasants Forever, Inc. deposits the order in the mail. If issued via email, the Task Order is considered "issued" when Pheasants Forever, Inc. submits the order electronically.

## ORDER LIMITATIONS

- (a) Minimum order. When Pheasants Forever, Inc. requires supplies or services covered by this contract in an amount less than one acre, Pheasants Forever, Inc. is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.
- (b) Maximum order. There is no restriction on the maximum order allowed by Pheasants Forever, Inc.
- (c) The Contractor shall honor any order, unless that order (or orders) is returned to the ordering office within 10 days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, Pheasants Forever, Inc. may acquire the supplies or services from another source.

## **INDEFINITE QUANTITY**

- (a) This is an indefinite-quantity contract for the supplies or services specified and effective for the period stated, in the RFP.
- (b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. The Contractor shall furnish to Pheasants Forever, Inc. when and if ordered, the supplies or services specified in the RFP up to and including the quantity designated in the Task Order. Pheasants Forever, Inc. shall order at least the quantity of supplies or services designated in the RFP as the "minimum."
- (c) Except for any limitations on quantities in the Order Limitations clause or in the RFP, there is no limit on the number of orders that may be issued. Pheasants Forever, Inc. may issue orders requiring delivery to multiple destinations or performance at multiple locations.
- (d) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Pheasant Forever, Inc. rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after the time period specified in the last issued task order.
- (e) The acres listed in any order are an estimate determined by the NGPC area biologist. The contractor should review the worksite with the NGPC area biologist prior to both bidding on the project and starting work to confirm the project location, size, specifications and expected outcomes.

## **BUSINESS & COST PROPOSAL INSTRUCTIONS**

### (1) Cost Proposal.

- (i) Completion of "Supplies or Services and Prices/Costs" section's unit price with the inclusion of any supplemental information that may help in the evaluation of the bid.
- (ii) Bids for all specifications related to tree removal need to be submitted on a unit price per acre basis.
- (iii) Bids that are for a specific specification on a specific WMA must clearly be identified by the WMA name and Specification Name in the Cost Proposal.

### (2) Business Proposal.

- (i) Furnish financial statements for the last two years, including an interim statement for the current year.
- (ii) Specify the financial capacity, working capital and other resources available to perform the contract without assistance from any outside source.

## **INSTRUCTIONS FOR THE PREPARATION OF TECHNICAL AND BUSINESS PROPOSALS**

### **(a) General Instructions.**

Proposals submitted in response to this solicitation shall be furnished in the following format with the numbers of copies as specified below.

- (1) The proposal must include: (1) Technical Proposal and (2) Business & Cost Proposal. Each of the parts shall be separate and complete so that evaluation of one may be accomplished independently from evaluation of the other.

- (2) The Technical Proposal should not contain reference to cost; however, resource information (such as data concerning labor hours and categories, materials, subcontracts, etc.) must be contained in the technical proposal so that the contractor's understanding of the statement of work may be evaluated.
- (3) Offerors may, at their discretion, submit alternate proposals or proposals which deviate from the requirement; provided, that an offeror also submit a proposal for performance of the work as specified in the statement of work. Any "alternate" proposal may be considered if overall performance would be improved or not compromised, and if it is in the best interest of Pheasants Forever, Inc. Alternate proposals, or deviations from any requirement of this RFP, must be clearly identified.
- (4) Pheasants Forever will evaluate proposals in accordance with the following evaluation criteria:
  1. Technical capabilities
  2. Organizational and personnel qualifications
  3. Past performance
  4. Liability Insurance
  5. Following the RFP guidelines
  6. Price
- (5) Offerors shall submit their proposal(s) in the following format and the quantities specified:
  - (i) One copy of the completed and signed offer.
  - (ii) One copy of the technical proposal.
  - (iii) One copy of the business & cost proposal.

Electronic submission is preferred, but not required. If submitting electronically, please combine the cover page, technical proposal, business proposal, completed contractor's quote summary, request for proposal and other documents in a one MS Word or PDF document if possible. Please see the Sample Bid for reference.

#### **Technical Proposal Instructions.**

The Technical Proposal will be used to make an evaluation and arrive at a determination as to whether the proposal will meet the requirements of Pheasants Forever, Inc. Therefore, the Technical Proposal should present sufficient information to reflect a thorough understanding of the requirements and a detailed, description of the techniques, procedures and program for achieving the objectives of the specifications/statement of work. As a minimum, the Technical Proposal should clearly provide the following information:

- Information to show and verify your technical capabilities and personnel qualifications.
- Past performance examples and references.
- General liability insurance as described on pages 2 and 3 of this RFP, in the "Insurance Requirements" section.

You may provide narratives and/or resumes as they relate to this solicitations scope of work. This information should relate to the company's management capability, prior experience on similar projects, logistics, key personnel qualifications, past experience showing successes and failures, and any other pertinent information that shows us why you are the best contractor for this project.

#### **(b) Habitat Share Sample Contract Bid**

Pheasants Forever, Inc. has available a sample contract bid to assist contractors in the identification of information and format needed for a complete bid. This sample will be available electronically by contacting the Program Manager.

**PART I - THE RFP**

**SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS**

<b>ITEM NO.</b>	<b>Specification Name &amp; Description of Activities</b>	<b>UNIT</b>	<b>UNIT PRICE</b>
<b>1.</b>	<b><u>Brush Pile Burning</u></b>	<b>Site</b>	<b>Per Site \$ _____</b>

Specifications for tree pile burning on Wildlife Management Areas. Tree pile burning will occur on the following areas:

- **Group 1:** There are two sites on Calamus Reservoir WMA in Loup/Garfield Counties and one site on Myrtle Hall WMA in Custer/Loup Counties. Contact PF Coordinating Wildlife Biologist Jim Conn at 308-942-6053 for information or inspection.

Work Specifications: Tree pile burning shall be completed from December 1, 2017 to March 31, 2018. All tree piles occurring within the designated blocks shall be completely burned. All scattered dead trees within the designated block must be piled and burned as well. Bids are to be submitted on each individual site. Sites are prioritized and each will be awarded to lowest bidding contractor as funding allows. Some sites may be excluded and/or re-prioritized if bids exceed budget. Contractors will ignite and tend piles with skid loaders, tractor/loader, water supply, and any tools and equipment deemed necessary to ensure a safe, timely burn and complete burn of piles. Piles shall be continuously restacked to ensure a complete burn of woody debris. Sites shall be completely extinguished prior to contractor's departure from the site. Caution must be exercised to minimize soil disturbance from equipment.

Contractors should submit individual bids per site. For Group 1, there will be 10 sites total that are individually numbered from 1 to 10. For Group 2, there will be 5 sites total that are individually numbered from 1 to 5. Information about each specific site can be obtained through the NGPC area biologist listed for that site.

Contractor shall be responsible for obtaining burn permit and maintaining daily communication with the local fire chief and NGPC staff. NGPC will prepare a burn plan for submission to the local fire chief. Piles will be burned following an accumulating snowfall in order to ensure safer burn conditions. The contractor shall take advantage of the first accumulating snow and complete the burns. Contractor shall agree to carry all applicable insurance. Contractor is responsible for all equipment, supplies, maintenance, repairs, and injuries.

Contractor will be responsible for inspection, equipment and operation and any needed insurance. Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with NGPC area biologist before initiation of work. Regular communication and inspection will be required by NGPC area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
<b>2.</b>	<b><u>Disking and Interseeding 1</u></b>	<b>Acre</b>	<b>\$ _____</b>

Specifications for disking grasslands and inter-seeding grass and forbs (Disking #1) on Wildlife Management Areas. Disking and planting will occur on the following areas:

- **Group 1:** 60.0 acres on Don Dworak WMA in Nance County; 40.0 acres on George D. Syas WMA and 30.0 acres on Wilkinson WMA in Platte County. Contact NGPC area biologist Russ Hamer at 402-675-4020 for information or inspection. High diversity seeding mixture: Custom mix. Contact Kelsi Wehrman (402)621-0744 for seed list.
- **Group 2:** 30.0 acres on Kiowa WMA in Scottsbluff County. Contact NGPC area biologist Chris Becker at 308-641-5571 for information or inspection. High diversity seeding mixture: Custom mix for Kiowa. Contact Kelsi Wehrman (402)621-0744 for seed list.
- **Group 3:** 30.0 acres on Hickory Ridge WMA, 53.2 acres on Osage WMA, and 106.5 acres on Twin Oaks WMA in Johnson County. Contact NGPC area biologist Mike Remund at 402-335-2534 for information or inspection. High diversity seeding mixture: Tallgrass Prairie Mixture #1
- **Group 4:** 84.8 acres on Dry Sandy WMA in Thayer County; 28.6 acres on Flathead WMA in Jefferson County; 12.6 acres on Sandpiper WMA in Fillmore County. Contact NGPC area biologist Brad Seitz at 402-749-4430 for information or inspection. High diversity seeding mixture: Tallgrass Prairie Mixture #1
- **Group 5:** 40.0 acres on Bulrush WMA and 85 acres on Cornhusker WMA in Hall County. Contact NGPC biologist George Cargill at 308-382-9209 for information or inspection. Tallgrass Prairie Mixture #1
- **Group 6:** 8 acres on Greenhead WMA in Clay County. Contact NGPC area biologist George Cargill at 308-382-9209 for information or inspection. Tallgrass Prairie Mixture #2

Work Specifications: Tillage and planting will occur between March 22, 2017 and May 31, 2017. Tillage operation will include primary and finishing disking of grassland with heavy residue cover and must be completed prior to May 1. Offset disk or heavy tandem disk should allow soil penetration of minimum of 6". One pass of heavy disking will be required. Finishing disking equipment should allow soil penetration of a minimum of 4 inches. One pass with a finishing tandem disk will be required. The soil disturbance should be adequate to allow early successional vegetation, forbs and legumes to become established within the grassland. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment.

Grass and forb plantings should be done using a no-till or minimum-till drill to allow proper placement of the seed to a depth of 1/8 of an inch in rough, broken soil conditions. The contractor will plant a Pheasants Forever designed high diversity seeding mixture designated by Pheasants Forever and NGPC biologists. The high diversity seeding mixture to be used on each project is listed in the appendix of this RFP. Contractor will need to provide and sign a verification statement about seed mixture information that provides the scientific name of each species used, PLS of each species, seeding rate for the mixture and seed source location information. This information format can be provided in a similar format used for USDA conservation programs.

Contractor will be responsible for inspection, equipment and operation, seed, chemical, and any needed insurance. Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with NGPC area biologist before initiation of work. Regular communication and inspection will be required by NGPC area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
<b>3.</b>	<b>Disking 2</b>	<b>Acre</b>	<b>\$ _____</b>

Specifications for heavy disking and finishing disking (Disking #2) on Wildlife Management Areas. Tillage practices will occur on the following areas:

- **Group 1:** 30.0 acres on Wood Duck WMA in Stanton County; 20.0 acres on Oak Valley WMA in Madison County. Contact NGPC area biologist Russ Hamer at 402-675-4020 for information or inspection.
- **Group 2:** 120.0 acres on Sherman Reservoir WMA; 10.0 acres on Marsh Wren WMA and 15.0 acres on Leonard Koziol WMA in Howard County. Contact NGPC biologist Mark Feeney at 308-745-1848 for information or inspection.
- **Group 3:** 25.0 acres on Pintail WMA in Hamilton County. Contact NGPC biologist George Cargill at 308-382-9209 for information or inspection.

Work Specifications: Tillage will occur between March 22, 2017 and April 30, 2017. Tillage operation will include primary and finishing disking of grassland with heavy residue cover. Offset disk or heavy tandem disk should allow soil penetration of minimum of 6". One pass of heavy disking will be required. Finishing disking equipment should allow soil penetration of a minimum of 4 inches. Two passes with a finishing tandem disk will be required. A minimum total of 3 passes with a disk is stated in this specification. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment

Contractor will be responsible for inspection, equipment and operation, seed, chemical, and any needed insurance. Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
<b>4.</b>	<b>Milo Food Plot 1</b>	<b>Acre</b>	<b>\$ _____</b>

Specifications for planting wildlife food plots (Food Plot #1) on Wildlife Management Areas.

- **Group 1:** 17.0 acres on Wagontrain SRA; 14.0 acres on Stagecoach SRA and 3.0 acres on Conestoga SRA in Lancaster County, 8.0 acres on Oak Glen WMA in Seward County. Contact NGPC area biologist Chuck Lesiak at 402-783-3406 for information or inspection

Work Specifications: Tillage and planting will occur between March 22, 2017 and May 31, 2017. Tillage practices include one pass primary disking (offset or heavy tandem disk) and one pass finish tandem disking. Tillage must be completed prior to May 1. Areas will be planted using a broadcast seeder and will apply 10 lb./acre of short season milo; no preference on variety. Following seeding, field will be harrowed or lightly disked.

Contractor will be responsible for inspection, equipment and operation, seed, chemical, and any needed insurance. Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with NGPC area biologist before initiation of work. Regular communication and inspection will be required by NGPC area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
5.	<u>Inter-seeding 1</u>	Acre	\$ _____

Specifications for inter-seeding forbs (Inter-seeding #1) on Wildlife Management Areas. Planting will occur on the following areas:

- **Group 1:** 35.0 acres on Grove Lake WMA, 20.0 acres on Hackberry Creek WMA in Antelope County. Contact NGPC area biologist Lucas Negus at 402-893-2559 for information or inspection. High diversity seeding mixture: Mixed Grass Sandy Mixture
- **Group 2:** 50.0 acres on Myrtle Hall WMA in Custer/Loup Counties. Contact PF Coordinating Wildlife Biologist Jim Conn at 308-942-6053 for information or inspection. High diversity seeding mixture: Mixed Grass Loamy Mixture
- **Group 3:** 100 acres on Bordeaux Creek WMA in Dawes Co. Contact NGPC area biologist Greg Schenbeck at 308-665-2924 for information or inspection. High diversity seeding mixture: Shortgrass Prairie Mixture
- **Group 4:** 78.0 acres on Branched Oak WMA in Lancaster County. Contact NGPC area biologist Kirk Hansen at 402-783-3408 for information or inspection. High diversity seeding mixture: Tallgrass Prairie Mixture #2

Work Specifications: Planting will occur between March 22, 2017 and April 30, 2017. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment.

Grass and forb plantings should be done using a no-till or minimum-till drill to allow proper placement of the seed to a depth of 1/8 of an inch in rough, broken soil conditions. The contractor will plant a Pheasants Forever designed high diversity seeding mixture designated by Pheasants Forever and NGPC biologists. The high diversity seeding mixture to be used on each project is listed in the appendix of this RFP. Contractor will need to provide and sign a verification statement about seed mixture information that provides the scientific name of each species used, PLS of each species, seeding rate for the mixture and seed source location information. This information format can be provided in a similar format used for USDA conservation programs.

Contractor will be responsible for inspection, equipment and operation, seed, and any needed insurance. Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with NGPC area biologist before initiation of work. Regular communication and inspection will be required by NGPC area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
6.	<u>Inter-seeding 2</u>	Acre	\$ _____

Specifications for inter-seeding forbs (Inter-seeding #1) on Wildlife Management Areas. Planting will occur on the following areas:

- **Group 1:** 263.0 acres on Bordeaux Creek WMA in Dawes County, 32.0 acres on Peterson WMA in Sioux County. Contact NGPC area biologist Greg Schenbeck at 308-665-2924 for information or inspection. High diversity seeding mixture: Shortgrass Prairie Mixture

Work Specifications: Planting will occur between November 1, 2017 and December 31, 2017. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment.

Grass and forb plantings should be done using a no-till or minimum-till drill to allow proper placement of the seed to a depth of 1/8 of an inch in rough, broken soil conditions. The contractor will plant a Pheasants Forever designed high diversity seeding mixture designated by Pheasants Forever and NGPC biologists. The high diversity seeding mixture to be used on each project is listed in the appendix of this RFP. Contractor will need to provide and sign a verification statement about seed mixture information that provides the scientific name of each species used, PLS of each species, seeding rate for the mixture and seed source location information. This information format can be provided in a similar format used for USDA conservation programs.



Contractor will be responsible for inspection, equipment and operation, seed, and any needed insurance. Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with NGPC area biologist before initiation of work. Regular communication and inspection will be required by NGPC area biologist and contractor during project operation.

ITEM	UNIT		
NO.	Specification Name & Description of Activities	UNIT	PRICE
7.	<u>Spraying 1</u>	Acre	\$ _____

Specifications for fall herbicide application for Smooth Brome and Kentucky bluegrass control (Spraying #1) on Wildlife Management Areas. Spraying practices will occur on the following areas:

- **Group 1:** 50.0 acres on Scotia Canal in Valley County; 300.0 acres on Davis Creek WMA in Greeley/Valley Counties; 45.0 acres on Myrtle Hall WMA in Custer/Loup Counties. Contact PF Coordinating Wildlife Biologist Jim Conn at 308-942-6053 for information or inspection.
- **Group 2:** 32.0 acres on Peterson WMA in Sioux County, 263.0 acres on Bordeaux Creek WMA. Contact NGPC area biologist Greg Schenbeck at 308-665-2924 for information or inspection.
- **Group 3:** 90.0 acres on Sacramento WMA, 30.0 acres on West Sacramento WMA, in Phelps County. Contact NGPC area biologist Bob Meduna at 308-478-5238 for information or inspection.
- **Group 4:** 40.0 acres on Cornhusker WMA in Hall County, 50.0 acres on Narrows WMA and 20.0 acres on Elm Creek WMA in Webster County. Contact NGPC area biologist George Cargill at 308-382-9209 for information or inspection.
- **Group 5:** 20.0 acres on Arrowhead WMA, 10 acres on Diamond Lake WMA in Gage County; 25.0 acres on Bluebill WMA in Fillmore County; 35.0 acres on Divoky WMA in Saline Co.; 27.0 acres on Dry Sandy WMA in Thayer Co.; 5.0 acres on Greenwing WMA in Clay Co.; 49.0 acres on Rose Creek WMA in Jefferson Co. Contact NGPC area biologist Brad Seitz at 402-749-4430 for information or inspection.
- **Group 6:** 50.0 acres on Wood Duck WMA in Stanton County. Contact NGPC area biologist Russ Hamer at 402-675-4020 for information or inspection.

Work Specifications: Work Specifications: Contractor to apply 64 ounces per acre of glyphosate product 4 pound ai/gal, with anti-foaming agent & drift control properties, and with a rate of 17 pounds per 100 gallons water of ammonium sulfate. Application rate of 10 to 15 gallons per acre will be applied to grassland. The contractor will provide the chemical, surfactant and ammonium sulfate. Herbicide application dates are between September 15, 2017 and December 15, 2017. A killing frost must first occur in which the temperature reaches 28 degrees for 3 consecutive hours. Day time temperatures must reach at least 55° F during the time of actual application. The herbicide will be applied to open fields and grasslands as part of early successional management. Contractors will be required to consult with area biologists prior to herbicide application to ensure that targeted grass species are still actively growing for the year. The herbicide application is intended to suppress smooth brome grass and Kentucky blue grass. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment.

Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
8.	<u>Spraying 2</u>	Acre	\$ _____

Specifications for spring herbicide (glyphosate) application for Smooth Brome and Kentucky bluegrass control (Spraying #3) on Wildlife Management Areas. Spraying practices will occur on the following areas:

- Group 1: 32.0 acres on Peterson WMA in Sioux County, 100.0 acres on Bordeaux Creek WMA in Dawes County. Contact NGPC area biologist Greg Schenbeck at 308-665-2925 for information and inspection.

Work Specifications: Contractor to apply 64 oz./ac of glyphosate product 4 lb. ai/gal, with anti-foaming agent & drift control properties, and with a rate of 17-lbs/100 gallons water of ammonium sulfate. Application rate of 10 to 15 gallons/acre will be applied to grassland. The contractor will provide the chemical, surfactant and ammonium sulfate. Herbicide application dates are between March 22, 2017 and April 30, 2017. Day time temperatures must reach at least 55° F during the time of actual application. The herbicide will be applied to open fields and grasslands as part of early successional management. The chemical will suppress smooth brome grass and Kentucky blue grass. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment.

Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
9.	<u>Spraying4</u>	Acre	\$ _____

Specifications for spring herbicide spraying (Spraying #3) application for brush and other woody species control on Wildlife Management Areas. Spraying practices will occur on the following areas:

- **Group 1:** 35.0 acres on Stagecoach WMA, 50 acres on Pawnee WMA, 45.0 acres on Wildwood WMA, 46.0 acres on Wagontrain WMA, 22.0 acres on Hedgefield WMA in Lancaster County. Contact NGPC area biologist Chuck Lesiak at 402-783-3406 for information or inspection.

Work Specification: Contractor will apply 2 quarts of Garlon 3A per 25 gallons of water, with an anti-foaming agent and drift control properties according to chemical label directions. The contractor will provide the chemical, surfactant, and drift control agent. Herbicide application dates are between May 1, 2017 and June 30, 2017. Day time temperatures must reach at least 55°F during the time of actual application. The herbicide will be spot sprayed on trees and brush in fields designated by the area biologist as part of early successional management. The chemical will control invasive trees and brush encroaching on grasslands. Contractor must consider remote locations of fields, access to fields, rough terrain, and difficulty in moving equipment.

Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
<b>10. Spraying 5</b>		<b>Acre</b>	<b>\$ _____</b>

Specifications for summer application cattail control on Wildlife Management Areas. Spraying practices will occur on the following areas:

- Group 1: 30 acres on Peru Bottoms WMA in Nemaha County; 24.0 acres on South Fork WMA in Richardson County. Contact NGPC area biologist Mike Remund at 402-335-8033 for information or inspection.

Work Specifications: Work Specifications: Contractor to apply 64 ounces per acre of aquatic glyphosate product 4 pound ai/gal, with anti-foaming agent & drift control properties, and with a rate of 4.25 pounds per 25 gallons water of ammonium sulfate by ATV or UTV. Application rate of 10 to 15 gallons per acre will be applied to cattails. The contractor will provide the chemical, surfactant and ammonium sulfate. Herbicide application dates are between July 1, 2017 and July 31, 2017. Contractor must consider remote locations of fields, access to fields, rough terrain and difficulty in moving equipment.

Contractors who want to bid on project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by area biologist and contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
<b>11. Tree Removal 1</b>		<b>Acre</b>	<b>\$ _____</b>

Specifications for tree removal (Tree Removal 1) on Wildlife Management Areas. Tree removal practices will occur on the following areas:

- **Group 2:** 120.0 acres on Calamus Reservoir WMA in Loup/Garfield Counties; 60 acres on Davis Creek in Greeley/Valley Counties. Contact PF Coordinating Wildlife Biologist Jim Conn at 308-942-6053 for information or inspection.

Work Specifications: Tree clearing areas will have all eastern red cedar and ponderosa pine trees in each area removed from woodland and/or grasslands, unless rough terrain prevents equipment and personnel from accessing the trees safely. Trees will be ground or mulched at the ground level wherever possible. Trees too large to be mulched will be cut with tree shear or chainsaws. Trees that are cut down, will be piled near tree removal areas under direction of the NGPC area biologist. Trees cannot be cut between the dates of May 1, 2017 and July 31, 2017 unless a survey has been conducted by a wildlife biologist to ensure nesting migratory birds are not present on the site.

Contractor will be responsible for inspection, equipment and operation, chemical, and any needed insurance. Contractors who want to bid on the project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by the area biologist and the contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
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**12. Tree Removal 2** Acre \$ \_\_\_\_\_

Specifications for tree removal and stump treatment (Tree Removal #2) on Wildlife Management Areas. Tree removal practices will occur on the following areas:

- **Group 1:** 50.0 acres on Pawnee WMA, 25.0 acres on Wagontrain WMA in Lancaster County. Contact NGPC area biologist Chuck Lesiak at 402-783-3406 for information or inspection.
- **Group 2:** 50.0 acres on Bassway Strip WMA in Buffalo County. Contact NGPC area biologist Nic Fryda at 308-865-5310 for information or inspection.

Work Specifications: Tree clearing areas will have all eastern red cedar trees in each area removed from woodland and/or grasslands, unless rough terrain prevents equipment and personnel from accessing the trees safely. Trees will be ground or mulched at the ground level wherever possible. Trees too large to be mulched will be cut with tree shear or chainsaws. Trees that are cut down, will be piled near tree removal areas under direction of the NGPC area biologist. Trees cannot be cut between the dates of May 1, 2017 and July 31, 2017 unless a survey has been conducted by a wildlife biologist to ensure nesting migratory birds are not present on the site.

Contractor will be responsible for inspection, equipment and operation, chemical, and any needed insurance. Contractors who want to bid on the project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by the area biologist and the contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
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**13. Tree Removal 4** Acre \$ \_\_\_\_\_

Specifications for tree removal (Tree Removal #4) on Wildlife Management Areas. Tree removal practices will occur on the following areas:

- **Group 1:** 18.0.0 acres on Cornhusker WMA. Contact NGPC area biologist George Cargill at 308-382-9209 for information or inspection.
- **Group 2:** 24.0 acres on Bluestem WMA and 19.0 acres on Olive Creek WMA in Lancaster County. Contact NGPC area biologist Kirk Hansen at 402-783-3408 for information or inspection.
- **Group 3:** 10.0 acres on South Sacramento WMA in Phelps County. Contact biologist Bob Meduna at 308-478-5238 for information or inspection.
- **Group 4:** 10.0 acres on Leonard Koziol WMA in Howard Co. Contact NGPC area biologist Mark Feeney at 308-745-1848 for information or inspection.

Work Specifications: Tree clearing areas will have all undesirable trees in each area removed. Native trees will not be cut. These species will be identified by the area biologist. Trees will be sheared, cut or mulched at the ground level wherever possible. Trees too large to be sheared cut or mulched will be cut with chainsaws. Trees that will be removed include eastern red cedar, Siberian elm, locust, Russian olive and any other species identified by the area biologist. Deciduous trees will be chemically treated immediately after shearing to prevent re-sprouting. Contractor needs to be diligent in treating to prevent missing stumps. Contractor will use Tordon RTU, Pathway or another approved chemical to treat stumps. Apply chemical to the outside 3" of the stump surface, around the entire circumference of stump. Saturate the surface up to the point of run-off. Trees will be piled near tree removal areas under direction of the area biologist. Trees cannot be cut between the dates of May 1, 2017 and July 31, 2017 unless a survey has been conducted by a wildlife biologist to ensure nesting migratory birds are not present on the site.

Contractor will be responsible for inspection, equipment and operation, chemical, and any needed insurance. Contractors who want to bid on the project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by the area biologist and the contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
14.	<u>Tree Removal/Edge Feathering</u>	Acre	\$ _____

Specifications for tree removal and stump treatment (Tree Removal/Edge Feathering) on Wildlife Management Areas. Tree removal practices will occur on the following areas:

- **Group 1:** 10.0 acres on Arrowhead WMA in Gage County; 12.5 acres on Bluebill WMA, 5.5 acres on Marsh Hawk WMA , 10.3 acres on Sandpiper WMA in Fillmore County. Contact NGPC area biologist Brad Seitz at 402-749-4430 for information or inspection.

Work Specifications: Tree clearing areas will have selected undesirable trees in each area removed. These species will be identified by the area biologist. Trees will be sheared or cut at the ground level wherever possible. Trees that will be removed include eastern red cedar, ponderosa pine, Siberian elm, locust, hackberry, Russian olive and any other species identified by the area biologist. Deciduous trees will be chemically treated immediately after shearing to prevent re-sprouting. Contractor needs to be diligent in treating to prevent missing stumps. Russian olive stumps must be treated within 6 hours of cutting. Contractor will use Tordon RTU, Pathway or another approved chemical to treat stumps. Apply chemical to the outside 3" of the stump surface, around the entire circumference of stump. Saturate the surface up to the point of run-off. Trees will be feathered near tree removal areas under direction of the NGPC area biologist. Trees cannot be cut between the dates of May 1, 2017 and July 31, 2017 unless a survey has been conducted by a wildlife biologist to ensure nesting migratory birds are not present on the site.

Edge Feathering: provide 0.1-1.0 acre of dense woody cover per 5 to 40 acres of wildlife friendly habitat. The minimum size of an area to edge feather is 30'x50', but preferred is 50'x100'. It takes 3 projects of 30'x50' or 1 project of 50'x100' area to equal 0.1 acre. Edge feathering maybe completed in blocks or in long linear strips along field edge. Treat all cut stumps with an approved herbicide to prolong the benefits of edge feathering. Leave native shrubs, like plum and dogwood. If possible, leave felled trees where they fall. Edge feathered trees may be dropped parallel to the line/field edge or cut and loosely stacked along the edge of the field. Do not push the downed trees into a dense brush pile or stack trees. Edge feathering may be completed with a chainsaw or mechanical clipper. Contractor will need both a shear, grapple and chainsaw to fulfill contract.

Contractor will be responsible for inspection, equipment and operation, chemical, and any needed insurance. Contractors who want to bid on the project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by the area biologist and the contractor during project operation.

ITEM NO.	Specification Name & Description of Activities	UNIT	UNIT PRICE
15.	<u>Brush Clearing/Tree Removal</u>	Acre	\$ _____

Work Specifications: for clearing woody brush in grasslands on Wildlife Management Areas. Brush removal will occur on the following areas:

- **Group 1:** 26.0 acres on Table Rock WMA in Pawnee County. Contact NGPC area biologist Mike Remund at 402-335-8033 for information or inspection.

Work Specifications: Brush clearing areas will have all undesirable tree & brush species, up to 4 inches DBH removed. Undesirable species will be identified by the area biologist and will include roughleaf dogwood, sumac sp., honeylocust, osage orange, Siberian elm, indigo bush and mulberry sp. Trees/brush will be rotary mowed, sheared, or cut to ground level wherever possible. No herbicide treatment will be required. Trees/brush cannot be cut between the dates of May 1, 2017 and July 31, 2017 unless a survey has been conducted by a wildlife biologist to ensure nesting migratory birds are not present on the site.

Contractor will be responsible for inspection, equipment (shear and grapple), chainsaw if necessary and equipment operation, chemical, and any needed insurance. Contractors who want to bid on the project can make an appointment to meet for a site inspection before bids are submitted. Successful bidder must inspect sites with area biologist before initiation of work. Regular communication and inspection will be required by the area biologist and the contractor during project operation.

# Habitat Share 2017: Grass and Forb Mixtures

Contractor will need to provide and sign a verification statement about seed mixture information that provides the scientific name of each species used, PLS of each species in the mixture, seeding rate for the mixture and seed source location information. This information format can be provided in a similar and standard format used for USDA conservation programs.

Any adjustments to the seed mixtures listed due to seed availability issues will need to be pre-approved by the Nebraska Game & Parks Commission and Pheasants Forever biologists.

**Biologist Note:** Please note that wildflower seed demand in 2017 is reaching unprecedented highs. As such, successful contractors are encouraged to acquire their seed needs as quickly as possible to ensure that the seed mixtures listed are completely available. Failure to obtain the required seed mixtures in time to comply with the timeframes issued in the Task Order could cause the termination of the agreement.

# Tallgrass Prairie #1

Species	Scientific Name	PLS lbs per acre	PLS seeds per sq ft	% of Mixture PLS	COC	Bloom Period	Pollinator Value
Arkansas Rose, Nebraska Native	<i>Rosa arkansana</i>	0.040	0.04	0.18%	4	1	4
Aromatic Aster	<i>Aster oblongifolius</i>	0.010	1.18	5.78%	5	3	4
Baldwin's Ironweed, Nebraska Native	<i>Vernonia baldwinii</i>	0.030	0.48	2.35%	3	2	5
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.030	1.09	5.30%	3	2	1
Blacksamson, Nebraska Native	<i>Echinacea angustifolia</i>	0.040	0.23	1.13%	5	2	5
Butterfly Milkweed	<i>Asclepias tuberosa</i>	0.010	0.02	0.08%	6	2	5
Canada Goldenrod, Nebraska Native	<i>Solidago canadensis</i>	0.001	0.16	0.79%	2	2	5
Canada Milkvetch	<i>Astragalus canadensis</i>	0.150	0.93	4.55%	5	2	4
Canada Tick-trefoil	<i>Desmodium canadense</i>	0.020	0.04	0.20%	5	2	5
Common Evening Primrose, Nebraska Native	<i>Oenothera biennis</i>	0.050	1.58	7.71%	1	2	4
Common Milkweed, Nebraska Native	<i>Asclepias syriaca</i>	0.040	0.08	0.37%	1	2	5
Compass Plant	<i>Silphium laciniatum</i>	0.020	0.00	0.02%	5	2	5
Cudweed Sagewort or Prairie Sage	<i>Artemisia ludoviciana</i>	0.010	0.93	4.54%	4	3	1
Cup Plant, Nebraska Native	<i>Silphium perfoliatum</i>	0.040	0.06	0.29%	4	2	5
Curly Cup Gumweed, Nebraska Native	<i>Grindelia squarrosa</i>	0.005	0.07	0.32%	--	2	2
Deer Vetch, Nebraska Native	<i>Lotus unifoliolatus</i>	0.020	0.04	0.18%	3	3	4
Dotted Gayfeather, Nebraska Native	<i>Liatris punctata</i>	0.010	0.03	0.15%	5	3	4
Entire-leaved Rosinweed, Nebraska Native	<i>Silphium integrifolium</i>	0.030	0.02	0.12%	4	2	5
False or Oxeye Sunflower	<i>Heliopsis helianthoides</i>	0.090	0.21	1.05%	4	2	5
Hoary Vervain	<i>Verbena stricta</i>	0.060	0.81	3.94%	8	2	5
Illinois Bundleflower	<i>Desmanthus illinoensis</i>	0.300	0.59	2.86%	5	2	5
Illinois Tickclover	<i>Desmodium illinoense</i>	0.020	0.03	0.15%	6	2	4
Jerusalem Artichoke	<i>Helianthus tuberosus</i>	0.020	0.05	0.27%	4	3	4
Late or Giant Goldenrod, Nebraska Native	<i>Solidago gigantea</i>	0.005	0.87	4.24%	3	3	5
Leadplant, Nebraska Native	<i>Amorpha canescens</i>	0.050	0.22	1.10%	0	0	5
New England Aster	<i>Aster novae-angliae</i>	0.010	0.24	1.18%	4	3	5
Pitcher or Blue Sage	<i>Salvia azurea</i>	0.050	0.34	1.68%	6	3	5
Purple Prairieclover	<i>Dalea purpurea</i>	0.200	1.46	7.11%	6	2	5
Roundhead Lespedeza	<i>Lespedeza capitata</i>	0.060	0.24	1.17%	5	3	3
Shell-leaf Penstemon, Nebraska Native	<i>Penstemon grandiflorus</i>	0.030	0.15	0.72%	5	1	5
Showy Partridgepea	<i>Chamaecrista fasciculata</i>	0.400	0.60	2.92%	1	2	5
Silky Aster	<i>Aster sericeus</i>	0.010	0.18	0.90%	7	3	4
Stiff Goldenrod, Nebraska Native	<i>Solidago rigida</i>	0.020	0.31	1.51%	3	3	5
Stiff Sunflower, Nebraska Native	<i>Helianthus pauciflorus</i>	0.030	0.51	2.49%	5	2	4
Tall Boneset, Nebraska Native	<i>Eupatorium altissimum</i>	0.010	0.18	0.90%	3	3	4
Tall Thistle	<i>Cirsium altissimum</i>	0.008	0.02	0.09%	1	3	5
Upright Coneflower	<i>Ratibida columnifera</i>	0.100	1.69	8.26%	3	2	2
Velvety Gaura, Nebraska Native	<i>Gaura parviflora</i>	0.020	0.03	0.15%	1	2	2
Western Yarrow	<i>Achillea millefolium</i>	0.030	1.96	9.59%	2	1	2
White Prairieclover	<i>Dalea candida</i>	0.150	1.05	5.11%	6	2	5
Wild Bergamot	<i>Monarda fistulosa</i>	0.060	1.75	8.56%	3	2	5
<b>Total Mixture:</b>		<b>2.289</b>	<b>20.476</b>	<b>100.00%</b>			



## Tallgrass Prairie #2

Species	Scientific Name	PLS lbs per acre	PLS seeds per sq ft	% of Mixture PLS	COC	Bloom Period	Pollinator Value
Big Bluestem, Pawnee	<i>Andropogon gerardii</i>	0.600	1.99	7.15%	5	--	--
Indiangrass, Neb 54	<i>Sorghastrum nutans</i>	0.400	1.60	5.78%	5	--	--
Little Bluestem, Camper	<i>Schizachyrium scoparium</i>	0.500	2.76	9.95%	4	--	--
Tall Dropseed	<i>Sporobolus compositus</i>	0.100	1.10	3.97%	3	--	--
Sideoats Grama, Butte	<i>Bouteloua curtipendula</i>	0.400	1.46	5.26%	5	--	--
Switchgrass, Trailblazer	<i>Panicum virgatum</i>	0.200	1.19	4.28%	4	--	--
Arkansas Rose, Nebraska Native	<i>Rosa arkansana</i>	0.020	0.02	0.07%	4	1	4
Aromatic Aster	<i>Aster oblongifolius</i>	0.010	1.18	4.26%	5	3	4
Baldwin's Ironweed, Nebraska Native	<i>Vernonia baldwinii</i>	0.020	0.32	1.15%	3	2	5
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.020	0.72	2.61%	3	2	1
Blacksamson, Nebraska Native	<i>Echinacea angustifolia</i>	0.020	0.12	0.42%	5	2	5
Butterfly Milkweed	<i>Asclepias tuberosa</i>	0.010	0.02	0.06%	6	2	5
Canada Goldenrod, Nebraska Native	<i>Solidago canadensis</i>	0.001	0.16	0.59%	2	2	5
Canada Milkvetch	<i>Astragalus canadensis</i>	0.100	0.62	2.24%	5	2	4
Canada Tick-trefoil	<i>Desmodium canadense</i>	0.020	0.04	0.15%	5	2	5
Common Evening Primrose, Nebraska Native	<i>Oenothera biennis</i>	0.050	1.58	5.69%	1	2	4
Common Milkweed, Nebraska Native	<i>Asclepias syriaca</i>	0.030	0.06	0.20%	1	2	5
Compass Plant	<i>Silphium laciniatum</i>	0.020	0.00	0.02%	5	2	5
Cudweed Sagewort or Prairie Sage	<i>Artemisia ludoviciana</i>	0.010	0.93	3.35%	4	3	1
Cup Plant, Nebraska Native	<i>Silphium perfoliatum</i>	0.030	0.04	0.16%	4	2	5
Curly Cup Gumweed, Nebraska Native	<i>Grindelia squarrosa</i>	0.005	0.07	0.23%	--	2	2
Deer Vetch, Nebraska Native	<i>Lotus unifoliolatus</i>	0.010	0.02	0.07%	3	3	4
Dotted Gayfeather, Nebraska Native	<i>Liatris punctata</i>	0.010	0.03	0.11%	5	3	4
Entire-leaved Rosinweed, Nebraska Native	<i>Silphium integrifolium</i>	0.020	0.02	0.06%	4	2	5
False or Oxeye Sunflower	<i>Heliopsis helianthoides</i>	0.060	0.14	0.52%	4	2	5
Hoary Vervain	<i>Verbena stricta</i>	0.040	0.54	1.94%	8	2	5
Illinois Bundleflower	<i>Desmanthus illinoensis</i>	0.250	0.49	1.76%	5	2	5
Illinois Tickclover	<i>Desmodium illinoense</i>	0.010	0.02	0.06%	6	2	4
Jerusalem Artichoke	<i>Helianthus tuberosus</i>	0.020	0.05	0.20%	4	3	4
Late or Giant Goldenrod, Nebraska Native	<i>Solidago gigantea</i>	0.005	0.87	3.13%	3	3	5
Leadplant, Nebraska Native	<i>Amorpha canescens</i>	0.050	0.22	0.81%	0	0	5
New England Aster	<i>Aster novae-angliae</i>	0.010	0.24	0.87%	4	3	5
Pitcher or Blue Sage	<i>Salvia azurea</i>	0.020	0.14	0.50%	6	3	5
Purple Prairieclover	<i>Dalea purpurea</i>	0.150	1.09	3.93%	6	2	5
Roundhead Lespedeza	<i>Lespedeza capitata</i>	0.050	0.20	0.72%	5	3	3
Shell-leaf Penstemon, Nebraska Native	<i>Penstemon grandiflorus</i>	0.030	0.15	0.53%	5	1	5
Showy Partridgepea	<i>Chamaecrista fasciculata</i>	0.400	0.60	2.15%	1	2	5
Silky Aster	<i>Aster sericeus</i>	0.010	0.18	0.66%	7	3	4
Stiff Goldenrod, Nebraska Native	<i>Solidago rigida</i>	0.020	0.31	1.11%	3	3	5
Stiff Sunflower, Nebraska Native	<i>Helianthus pauciflorus</i>	0.030	0.51	1.84%	5	2	4
Tall Boneset, Nebraska Native	<i>Eupatorium altissimum</i>	0.010	0.18	0.66%	3	3	4
Tall Thistle	<i>Cirsium altissimum</i>	0.008	0.02	0.06%	1	3	5
Thickspike Gayfeather	<i>Liatris pycnostachya</i>	0.020	0.06	0.20%	7	3	4
Upright Coneflower	<i>Ratibida columnifera</i>	0.050	0.85	3.05%	3	2	2
Velvety Gaura, Nebraska Native	<i>Gaura parviflora</i>	0.010	0.01	0.05%	1	2	2
Western Yarrow	<i>Achillea millefolium</i>	0.050	3.27	11.79%	2	1	2
White Prairieclover	<i>Dalea candida</i>	0.100	0.70	2.51%	6	2	5
Wild Bergamot	<i>Monarda fistulosa</i>	0.030	0.88	3.16%	3	2	5
<b>Total Mixture:</b>		<b>4.039</b>	<b>27.770</b>	<b>100.00%</b>			

## Mixedgrass Prairie -- Loamy

Species	Scientific Name	PLS lbs per acre	PLS seeds per sq ft	% of Mixture PLS	COC	Bloom Period	Pollinator Value
Big Bluestem, Pawnee	<i>Andropogon gerardii</i>	0.600	1.99	7.21%	5	--	--
Indiangrass, Neb 54	<i>Sorghastrum nutans</i>	0.400	1.60	5.82%	5	--	--
Little Bluestem, Camper	<i>Schizachyrium scoparium</i>	0.500	2.76	10.03%	4	--	--
Tall Dropseed	<i>Sporobolus compositus</i>	0.100	1.10	4.00%	3	--	--
Sideoats Grama, Butte	<i>Bouteloua curtipendula</i>	0.500	1.83	6.63%	5	--	--
Western Wheatgrass, Barton	<i>Elymus smithii</i>	0.300	0.78	2.85%	3	--	--
Arkansas Rose, Nebraska Native	<i>Rosa arkansana</i>	0.040	0.04	0.13%	4	1	4
Aromatic Aster	<i>Aster oblongifolius</i>	0.010	1.18	4.30%	5	3	4
Baldwin's Ironweed, Nebraska Native	<i>Vernonia baldwinii</i>	0.020	0.32	1.16%	3	2	5
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.020	0.72	2.63%	3	2	1
Blacksamson, Nebraska Native	<i>Echinacea angustifolia</i>	0.020	0.12	0.42%	5	2	5
Butterfly Milkweed	<i>Asclepias tuberosa</i>	0.010	0.02	0.06%	6	2	5
Canada Goldenrod, Nebraska Native	<i>Solidago canadensis</i>	0.001	0.16	0.59%	2	2	5
Canada Milkvetch	<i>Astragalus canadensis</i>	0.100	0.62	2.25%	5	2	4
Canada Tick-trefoil	<i>Desmodium canadense</i>	0.020	0.04	0.15%	5	2	5
Common Evening Primrose, Nebraska Native	<i>Oenothera biennis</i>	0.050	1.58	5.73%	1	2	4
Common Milkweed, Nebraska Native	<i>Asclepias syriaca</i>	0.040	0.08	0.27%	1	2	5
Cudweed Sagewort or Prairie Sage	<i>Artemisia ludoviciana</i>	0.010	0.93	3.37%	4	3	1
Curly Cup Gumweed, Nebraska Native	<i>Grindelia squarrosa</i>	0.005	0.07	0.24%	--	2	2
Daisy Fleabane, Nebraska Native	<i>Erigeron strigosus</i>	0.001	0.33	1.18%	2	1	2
Deer Vetch, Nebraska Native	<i>Lotus unifoliolatus</i>	0.010	0.02	0.07%	3	3	4
Dotted Gayfeather, Nebraska Native	<i>Liatris punctata</i>	0.010	0.03	0.11%	5	3	4
Entire-leaved Rosinweed, Nebraska Native	<i>Silphium integrifolium</i>	0.020	0.02	0.06%	4	2	5
Foxtail Prairie Clover, Nebraska Native	<i>Dalea leporina</i>	0.040	0.20	0.72%	3	2	3
Hoary Vervain	<i>Verbena stricta</i>	0.040	0.54	1.95%	8	2	5
Illinois Bundleflower	<i>Desmanthus illinoensis</i>	0.250	0.49	1.77%	5	2	5
Jerusalem Artichoke	<i>Helianthus tuberosus</i>	0.020	0.05	0.20%	4	3	4
Leadplant, Nebraska Native	<i>Amorpha canescens</i>	0.050	0.22	0.81%	0	0	5
Pitcher or Blue Sage	<i>Salvia azurea</i>	0.020	0.14	0.50%	6	3	5
Purple Prairieclover	<i>Dalea purpurea</i>	0.150	1.09	3.96%	6	2	5
Rough Gayfeather	<i>Liatris aspera</i>	0.020	0.13	0.46%	5	3	4
Roundhead Lespedeza	<i>Lespedeza capitata</i>	0.050	0.20	0.73%	5	3	3
Sensitive Briar, Nebraska Native	<i>Schrankia nuttallii</i>	0.030	0.03	0.11%	6	2	3
Shell-leaf Penstemon, Nebraska Native	<i>Penstemon grandiflorus</i>	0.030	0.15	0.53%	5	1	5
Showy Partridgepea	<i>Chamaecrista fasciculata</i>	0.400	0.60	2.17%	1	2	5
Showy-wand Goldenrod, Nebraska Native	<i>Solidago speciosa</i>	0.005	0.49	1.78%	7	3	5
Silky Prairieclover, Nebraska Native	<i>Dalea villosa</i>	0.020	0.09	0.34%	5	2	5
Stiff Goldenrod, Nebraska Native	<i>Solidago rigida</i>	0.020	0.31	1.12%	3	3	5
Stiff Sunflower, Nebraska Native	<i>Helianthus pauciflorus</i>	0.030	0.51	1.85%	5	2	4
Tall Boneset, Nebraska Native	<i>Eupatorium altissimum</i>	0.010	0.18	0.67%	3	3	4
Tall Thistle	<i>Cirsium altissimum</i>	0.008	0.02	0.06%	1	3	5
Upright Coneflower	<i>Ratibida columnifera</i>	0.050	0.85	3.07%	3	2	2
Velvety Gaura, Nebraska Native	<i>Gaura parviflora</i>	0.010	0.01	0.05%	1	2	2
Western Yarrow	<i>Achillea millefolium</i>	0.050	3.27	11.89%	2	1	2
White Penstemon, Nebraska Native	<i>Penstemon albidus</i>	0.005	0.07	0.25%	6	1	5
White Prairieclover	<i>Dalea candida</i>	0.100	0.70	2.53%	6	2	5
Wild Bergamot	<i>Monarda fistulosa</i>	0.030	0.88	3.18%	3	2	5
<b>Total Mixture:</b>		<b>4.225</b>	<b>27.544</b>	<b>100.00%</b>			

## Mixedgrass Prairie -- Sandy

Species	Scientific Name	PLS lbs per acre	PLS seeds per sq ft	% of Mixture PLS	COC	Bloom Period	Pollinator Value
Little Bluestem, Camper	<i>Schizachyrium scoparium</i>	0.500	2.76	9.17%	4	--	--
Prairie Sandreed	<i>Calamovilfa longifolia</i>	0.300	1.89	6.27%	5	--	--
Tall Dropseed	<i>Sporobolus compositus</i>	0.100	1.10	3.66%	3	--	--
Sand Bluestem, Goldstrike	<i>Andropogon hallii</i>	0.600	1.33	4.42%	5	--	--
Sand Dropseed	<i>Sporobolus cryptandrus</i>	0.020	2.57	8.54%	2	--	--
Sand Lovegrass	<i>Eragrostis trichodes</i>	0.060	2.24	7.44%	5	--	--
Sideoats Grama, Butte	<i>Bouteloua curtipendula</i>	0.500	1.83	6.07%	5	--	--
American Vetch	<i>Vicia americana</i>	0.200	0.15	0.50%	6	1	4
Arkansas Rose, Nebraska Native	<i>Rosa arkansana</i>	0.040	0.04	0.12%	4	1	4
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.020	0.72	2.40%	3	2	1
Blacksamson, Nebraska Native	<i>Echinacea angustifolia</i>	0.030	0.17	0.58%	5	2	5
Canada Milkvetch	<i>Astragalus canadensis</i>	0.150	0.93	3.09%	5	2	4
Common Milkweed, Nebraska Native	<i>Asclepias syriaca</i>	0.050	0.09	0.31%	1	2	5
Cudweed Sagewort or Prairie Sage	<i>Artemisia ludoviciana</i>	0.010	0.93	3.09%	4	3	1
Deer Vetch, Nebraska Native	<i>Lotus unifoliolatus</i>	0.020	0.04	0.12%	3	3	4
Dotted Gayfeather, Nebraska Native	<i>Liatris punctata</i>	0.015	0.05	0.16%	5	3	4
False or Oxeye Sunflower	<i>Heliopsis helianthoides</i>	0.090	0.21	0.71%	4	2	5
Four-point Evening Primrose, Nebraska Native	<i>Oenothera rhombipetala</i>	0.010	0.58	1.92%	2	2	4
Hoary Vervain	<i>Verbena stricta</i>	0.040	0.54	1.79%	8	2	5
Leadplant, Nebraska Native	<i>Amorpha canescens</i>	0.025	0.11	0.37%	0	0	5
Pitcher or Blue Sage	<i>Salvia azurea</i>	0.040	0.28	0.91%	6	3	5
Plains Sunflower, Nebraska Native	<i>Helianthus petiolaris</i>	0.040	0.10	0.35%	2	3	5
Prairie Spiderwort, Iowa Native	<i>Tradescantia occidentalis</i>	0.020	0.06	0.21%	5	1	3
Purple Prairieclover	<i>Dalea purpurea</i>	0.150	1.09	3.62%	6	2	5
Rough Gayfeather	<i>Liatris aspera</i>	0.030	0.19	0.63%	5	3	4
Roundhead Lespedeza	<i>Lespedeza capitata</i>	0.050	0.20	0.66%	5	3	3
Sand Milkweed, Nebraska Native	<i>Asclepias arenaria</i>	0.020	0.02	0.08%	0	2	5
Sensitive Briar, Nebraska Native	<i>Schrankia nuttallii</i>	0.040	0.04	0.13%	6	2	3
Shell-leaf Penstemon, Nebraska Native	<i>Penstemon grandiflorus</i>	0.040	0.20	0.65%	5	1	5
Showy Partridgepea	<i>Chamaecrista fasciculata</i>	0.400	0.60	1.98%	1	2	5
Showy-wand Goldenrod, Nebraska Native	<i>Solidago speciosa</i>	0.003	0.29	0.98%	7	3	5
Silky Prairieclover, Nebraska Native	<i>Dalea villosa</i>	0.050	0.24	0.79%	5	2	5
Slender Beardstongue, Nebraska Native	<i>Penstemon gracilis</i>	0.005	1.24	4.12%	6	2	4
Stiff Goldenrod, Nebraska Native	<i>Solidago rigida</i>	0.020	0.31	1.03%	3	3	5
Stiff Sunflower, Nebraska Native	<i>Helianthus pauciflorus</i>	0.040	0.68	2.26%	5	2	4
Tall Thistle	<i>Cirsium altissimum</i>	0.008	0.02	0.06%	1	3	5
Upright Coneflower	<i>Ratibida columnifera</i>	0.050	0.85	2.81%	3	2	2
Velvety Gaura, Nebraska Native	<i>Gaura parviflora</i>	0.010	0.01	0.05%	1	2	2
Western Yarrow	<i>Achillea millefolium</i>	0.050	3.27	10.87%	2	1	2
White Penstemon, Nebraska Native	<i>Penstemon albidus</i>	0.020	0.27	0.90%	6	1	5
White Prairieclover	<i>Dalea candida</i>	0.100	0.70	2.32%	6	2	5
Wild Bergamot	<i>Monarda fistulosa</i>	0.040	1.17	3.88%	3	2	5
<b>Total Mixture:</b>		<b>4.006</b>	<b>30.116</b>	<b>100.00%</b>			

## Shortgrass Prairie

Species	Scientific Name	PLS lbs per acre	PLS seeds per sq ft	% of Mixture PLS	COC	Bloom Period	Pollinator Value
Blue Grama, Bad River	<i>Bouteloua gracilis</i>	0.050	0.83	2.88%	4	--	--
Green Needlegrass	<i>Stipa viridula</i>	0.500	1.93	6.68%	4	--	--
Little Bluestem, Cimarron	<i>Schizachyrium scoparium</i>	0.400	2.21	7.66%	4	--	--
Prairie Sandreed	<i>Calamovilfa longifolia</i>	0.200	1.26	4.36%	5	--	--
Tall Dropseed	<i>Sporobolus compositus</i>	0.100	1.10	3.82%	3	--	--
Sand Bluestem, Goldstrike	<i>Andropogon hallii</i>	0.500	1.11	3.84%	5	--	--
Sand Dropseed	<i>Sporobolus cryptandrus</i>	0.010	1.29	4.46%	2	--	--
Sand Lovegrass	<i>Eragrostis trichodes</i>	0.050	1.87	6.47%	5	--	--
Sideoats Grama, Butte	<i>Bouteloua curtipendula</i>	0.500	1.83	6.33%	5	--	--
Western Wheatgrass, Barton	<i>Elymus smithii</i>	0.400	1.05	3.62%	3	--	--
American Vetch	<i>Vicia americana</i>	0.200	0.15	0.52%	6	1	4
Arkansas Rose, Nebraska Native	<i>Rosa arkansana</i>	0.040	0.04	0.13%	4	1	4
Blackeyed Susan	<i>Rudbeckia hirta</i>	0.020	0.72	2.51%	3	2	1
Blacksamson, Nebraska Native	<i>Echinacea angustifolia</i>	0.030	0.17	0.60%	5	2	5
Canada Milkvetch	<i>Astragalus canadensis</i>	0.150	0.93	3.23%	5	2	4
Common Milkweed, Nebraska Native	<i>Asclepias syriaca</i>	0.050	0.09	0.33%	1	2	5
Cudweed Sagewort or Prairie Sage	<i>Artemisia ludoviciana</i>	0.010	0.93	3.22%	4	3	1
Deer Vetch, Nebraska Native	<i>Lotus unifoliolatus</i>	0.020	0.04	0.13%	3	3	4
Dotted Gayfeather, Nebraska Native	<i>Liatris punctata</i>	0.015	0.05	0.16%	5	3	4
False or Oxeye Sunflower	<i>Heliopsis helianthoides</i>	0.090	0.21	0.74%	4	2	5
Four-point Evening Primrose, Nebraska Native	<i>Oenothera rhombipetala</i>	0.010	0.58	2.00%	2	2	4
Fringed Sagewort	<i>Artemisia frigida</i>	0.008	0.83	2.89%	--	3	1
Hoary Vervain	<i>Verbena stricta</i>	0.040	0.54	1.87%	8	2	5
Leadplant, Nebraska Native	<i>Amorpha canescens</i>	0.025	0.11	0.39%	0	0	5
Plains Sunflower, Nebraska Native	<i>Helianthus petiolaris</i>	0.040	0.10	0.36%	2	3	5
Prairie Spiderwort, Iowa Native	<i>Tradescantia occidentalis</i>	0.020	0.06	0.21%	5	1	3
Purple Prairieclover	<i>Dalea purpurea</i>	0.150	1.09	3.78%	6	2	5
Rocky Mountain Bee Plant	<i>Cleome serrulata</i>	0.050	0.07	0.25%	0	2	5
Rough Gayfeather	<i>Liatris aspera</i>	0.020	0.13	0.44%	5	3	4
Sand Milkweed, Nebraska Native	<i>Asclepias arenaria</i>	0.020	0.02	0.08%	0	2	5
Scarlet Globemallow	<i>Sphaeralcea coccinea</i>	0.020	0.23	0.80%	4	1	3
Shell-leaf Penstemon, Nebraska Native	<i>Penstemon grandiflorus</i>	0.040	0.20	0.68%	5	1	5
Showy Milkweed, Nebraska Native	<i>Asclepias speciosa</i>	0.020	0.03	0.11%		2	5
Slender Beardstongue, Nebraska Native	<i>Penstemon gracilis</i>	0.005	1.24	4.30%	6	2	4
Stiff Goldenrod, Nebraska Native	<i>Solidago rigida</i>	0.020	0.31	1.07%	3	3	5
Stiff Sunflower, Nebraska Native	<i>Helianthus pauciflorus</i>	0.040	0.68	2.36%	5	2	4
Upright Coneflower	<i>Ratibida columnifera</i>	0.050	0.85	2.93%	3	2	2
Velvety Gaura, Nebraska Native	<i>Gaura parviflora</i>	0.010	0.01	0.05%	1	2	2
Western Wallflower, Nebraska Native	<i>Erysimum asperum</i>	0.004	0.11	0.39%	--	1	3
Western Yarrow	<i>Achillea millefolium</i>	0.020	1.31	4.54%	2	1	2
White Penstemon, Nebraska Native	<i>Penstemon albidus</i>	0.020	0.27	0.94%	6	1	5
White Prairieclover	<i>Dalea candida</i>	0.200	1.40	4.84%	6	2	5
Wild Bergamot	<i>Monarda fistulosa</i>	0.030	0.88	3.04%	3	2	5
<b>Total Mixture:</b>		<b>4.197</b>	<b>28.854</b>	<b>100.00%</b>			