LAKE COUNTY FOREST PRESERVES www.LCFPD.org



Preservation, Restoration, Education and Recreation

DATE: December 2, 2019

MEMO TO: John Wasik, Chair

Planning Committee

FROM: James L. Anderson

Director of Natural Resources

RECOMMENDATION: Recommend approval of a Resolution awarding Contracts for the Purchase and Delivery of Native Seed for Grant Woods Forest Preserve and Plant Plugs for Prairie Wolf Forest Preserve to Applied Ecological Services, Brodhead, Wisconsin in the Contract Price of \$35,697.70; Cardno, Inc., Walkerton, Indiana in the Contract Price of \$27,456.58; Prairie Moon Nursery, Winona, Minnesota in the Contract Price of \$66,330.07; and Shooting Star Native Seeds, Spring Grove, Minnesota in the Contract Price of \$56,411.68.

STRATEGIC DIRECTION SUPPORTED: Conservation

<u>FINANCIAL DATA</u>: The purchase and delivery of native seed for Grant Woods Forest Preserve and plant plugs for Prairie Wolf was approved as part of the adopted FY 2018/2019 Natural Resource Grant Fund and Wetlands Management Fund.

The bids are tallied in Exhibit A. The bids for native seed and plugs under \$25,000.00 that do not require Committee review and Board approval total \$4,383.94, and, combined with the contracts that would be awarded pursuant to the attached resolution, total \$190,279.97. The seed purchases will be charged to the Grant Woods Donation account (20104100-803200-60604), in the amount of \$143,160.28. The plant plugs purchases will be charged to the Prairie Wolf Mitigation account (24614100-803200-62504), in the amount of \$47,119.69.

BACKGROUND: The District will be installing native seed in February of 2020 at Grant Woods Forest Preserve as part of ongoing ecological restoration efforts. Seed installation will occur in areas that have received invasive species control and additional preparations by District staff and volunteers. Seed installation will occur across 100 acres and include woodland, wetland and prairie communities.

The wetland plant plugs for Prairie Wolf Forest Preserve will be installed in the vernal pools located in the recently buckthorn-cleared 20-acre woodland south of Old Elm Road as part of the mitigation project approved by U.S. Army Corps of Engineers.

The project was advertised on October 4, 2019 and five bids were received. A summary of the lowest bids received and recommended for approval is listed below:

BIDDER TOTAL BID

Applied Ecological Services	(Seed - \$ 300.81) (Plugs - \$ 35,396.89)	\$ 35,697.70
	(Flugs - \$ 33,390.69)	\$ 33,091.10
Cardno, Inc.	(Seed - \$ 16,554.58)	
	(Plugs - \$ 10,902.00)	\$ 27,456.58
Prairie Moon Nursery	(Seed)	\$ 66,330.07
Shooting Star Native Nursery	(Seed)	\$ 56,411.68

SUCCESSFUL BIDDERS UNDER \$25,000.00

Spence Restoration Nursery	(Seed -	\$ 3,563.14)	
	(Plugs -	\$ 820.80)	\$ 4,383.94

Materials were bid on a unit price per species.

Staff recommends that Applied Ecological Services, Cardno, Inc., Prairie Moon Nursery and Shooting Star Native Nursery each be awarded a contract as the lowest responsible bidder for the seed / plant plug species for which it was the low bidder.

Staff will award a seed/plant plug Purchase Order contract to Spence Restoration Nursery, which submitted bids totaling less than \$25,000.00.

Work is anticipated to begin in February 2020 and be completed by July 2020.

REVIEW BY OTHERS: Chief Operations Officer, Director of Finance, Purchasing Manager, Corporate Counsel.

STATE OF ILLINOIS)
) SS
COUNTY OF LAKE)

PLANNING COMMITTEE:

BOARD OF COMMISSIONERS LAKE COUNTY FOREST PRESERVE DISTRICT REGULAR DECEMBER MEETING DECEMBER 10, 2019

MISTER PRESIDENT AND MEMBERS OF THE BOARD OF COMMISSIONERS:

Your **PLANNING COMMITTEE** presents herewith "A Resolution Awarding Contracts for Native Seed for Grant Woods Forest Preserve and Plant Plugs for Prairie Wolf Forest Preserve" and requests its approval.

Date:	Roll Call Vote: Ayes:	Nays:
	☐ Voice Vote Majority Ayes;	Nays:

LAKE COUNTY FOREST PRESERVE DISTRICT LAKE COUNTY, ILLINOIS

A RESOLUTION AWARDING CONTRACTS FOR NATIVE SEED FOR GRANT WOODS FOREST PRESERVE AND PLANT PLUGS FOR PRAIRIE WOLF FOREST PRESERVE

WHEREAS, the Lake County Forest Preserve District (the "District") has advertised in <u>The News Sun</u> for sealed bids to purchase Native Seed for Grant Woods Forest Preserve and Plant Plugs for Prairie Wolf Forest Preserve (collectively, the "Products") pursuant to the bidding documents for such Products (the "Bid Documents"); and

WHEREAS, all sealed bids were received and opened by the District at its General Offices, 1899 West Winchester Road, Libertyville, Illinois, on October 23, 2019, at 10:00 a.m.; and

WHEREAS, the District's staff, the Purchasing Manager, the Director of Natural Resources; and the Planning Committee have reviewed the bids identified on Exhibit A and recommend that the Board of Commissioners find (i) Applied Ecological Services, Inc. to be the lowest responsible bidder with respect to the yellow highlighted bids listed under "Applied Ecological Services" on Exhibit A (the "Applied Ecological Services, Inc. Bids"), (ii) Cardno, Inc. to be the lowest responsible bidder with respect to the yellow highlighted bids listed under "Cardno, Inc." on Exhibit A ("the Cardno, Inc. Bids"), (iii) Prairie Moon Nursery to be the lowest responsible bidder with respect to the yellow highlighted bids listed under "Prairie Moon Nursery" on Exhibit A ("the Prairie Moon Nursery Bids"), and (iv) Shooting Star Native Seeds to be the lowest responsible bidder with respect to the yellow highlighted bids listed under "Shooting Star Native Seeds" on Exhibit A ("the Shooting Star Native Seeds Bids") and award contracts for the Products to these bidders consistent therewith; and

WHEREAS, the Board of Commissioners hereby finds that Applied Ecological Services, Inc., Cardno, Inc., Prairie Moon Nursery, and Shooting Star Native Seeds are the lowest responsible bidders for the Products, as set forth in the previous clause;

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Lake County Forest Preserve District, Lake County, Illinois, **THAT**:

<u>Section 1:</u> <u>Recitals.</u> The recitals set forth above are incorporated as a part of this Resolution by this reference.

Section 2: Award of Contract. The Applied Ecological Services, Inc. Bids in the total amount of \$35,697.70 (the "Applied Ecological Services, Inc. Contract Price") are hereby accepted and a contract for Products in the amount of the Applied Ecological Services, Inc. Contract Price is hereby awarded to Applied Ecological Services, Inc. (the "Applied Ecological Services, Inc. Contract"). The Cardno, Inc. Bids in the total amount of \$27,456.58 (the "Cardno, Inc. Contract Price") are hereby accepted and a contract for Products in the amount of the Cardno, Inc. Contract Price is hereby awarded to Cardno, Inc. (the "Cardno, Inc. Contract"). The Prairie Moon Nursery Bids in the total amount of \$66,330.07 (the "Prairie Moon Nursery Contract Price") are hereby accepted and a contract for Products in the amount of the Prairie Moon Nursery Contract Price is hereby awarded to Prairie Moon Nursery (the "Prairie Moon Nursery Contract"). The Shooting Star Native Seeds Bids in the total amount of \$56,411.68 (the "Shooting Star Native Seeds Contract Price") are hereby accepted and a contract for

the Products in the amount of the Shooting Star Native Seeds Contract Price is hereby awarded to Shooting Star Native Seeds (the "Shooting Star Native Seeds Contract"), (collectively, the Applied Ecological Services, Inc. Contract, the Cardno, Inc. Contract, the Prairie Moon Nursery Contract, and the Shooting Star Native Seeds are the "Contracts"; collectively, the Applied Ecological Services, Inc. Contract Price, the Cardno, Inc. Contract Price, the Prairie Moon Nursery Contract Price, and the Shooting Star Native Seeds Contract Price are the "Contract Prices").

Section 3: Execution of Contracts. The Executive Director of the District is hereby authorized and directed to execute the Contracts for the Products in the amounts of their respective Contract Prices.

<u>Section 4:</u> <u>Payments.</u> The District Treasurer shall make payments under the Contracts only pursuant to and in accordance with the Contracts' terms.

Section 5: Effective Date. This Resolution shall be in full force and effect from and after its passage and approval in the manner provided by law.

PASSED this	day of	, 2019	
AYES:			
NAYS:			
APPROVED this	day of	, 2019	
			Angelo D. Kyle, President
			Lake County Forest Preserve District
ATTEST:			
Julie Gragnani, Secretary Lake County Forest Preserv	re District		
Exhibit No			

EXHIBIT A

NATIVE SEED PURCHASE – GRANT WOODS FOREST PRESERVE
Bid: 19051
Bid Title: Native Seed & Plant Plug Purchase for Grant Woods Forest Preserve and Prairie Wolf Forest Preserve

Bid Title: Native Seed & Plant Pla	ug r urchase n	or Grant v	roous roles		APPLIED ECOLOGICAL SERV		ve				CARDNO, IN	<u> </u>			SPENCE RES	TABATI	ION NI IDSED	v		DDAIDIG	E MOON NU	IDSERV			SHOOTING S	TAD NAT	IVE SEEDS	
	WOODLAND	PRAIRIE	WETLAND		APPLIED ECOLOGICAL SERV	ICES	1				AKDINO, IIV	Ĭ			SPENCE RES	JORAII	ION NORSER	1		FRAIRIE	- MOON NO	ROEKI			SHOOTINGS	STAR NATI	IVE SEEDS	Ì
SPECIES	MIX pls (lbs) (pkg 1)	MIX pls (lbs) (pkg 2)	MIX pls (lbs) (pkg 3)	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT
Andropogon scoparius		24		Υ		24	\$28.00	\$672.00						Υ		24	\$11.00	\$264.00	Υ		24	\$14.00	\$336.00	Y		24	\$14.40	\$345.60
Bouteluoa curtipendula		19																	N	Houston, MN 200 MI	19	\$13.00	\$247.00	Υ		19	\$9.40	\$178.60
Bromus kalmii		9.38																	N	Otter Tail, MN 450 MI	9.38	\$97.00	\$909.86		POLK, MN 500 MI		\$47.00	\$440.86
Bromus latiglumis	10									Î														Y			\$267.00	\$2,670.00
Calamogrostis canadensis (DF)			0.13																					N V	VAUSHARA, WI 110 MI	0.13	\$727.00	\$94.51
Carex annectens			2		<u>«</u>									Υ		2	\$150.00	\$300.00	Υ		2	\$173.00	\$346.00					
Carex bebbi		0.10	2																Y		2	\$188.00	\$376.00		MARQUETTE, WI 95 MI		\$172.00	\$344.00
Carex bicknellii Carex cristatella		3.13																	Υ		3.13	\$180.00	\$563.40	Y	MADISON, IA 295 MI		\$178.00	\$557.14 \$756.00
Carex cristatella Carex molesta			0.38																						ALLAMAKEE, IA 155 MI		\$378.00 \$287.00	\$109.06
Carex pellita/lanuginosa			2		2									- 1											MINNEBAGO, WI 105 MI		\$924.00	\$1,848.00
Carex rosea	0.63																1				-			11 1	VIIVELDAGO, VII 100 IVII	-	\$824.00	\$1,040.00
Carex scoparia	0.00		2	Y		2	\$128.00	\$256.00	Y		2	\$512.00	\$1.024.00	Y		2	\$110.00	\$220.00	Υ		2	\$174.00	\$348.00	Y		2	\$157.00	\$314.00
Carex stipata			2										180455555											N V	VAUSHARA, WI 110 MI		\$172.00	\$344.00
Carex vulpinoidea			1		7				Y		1	\$128.00	\$128.00	Y		1	\$34.00	\$34.00	Υ		1	\$34.00	\$34.00	N V	VAUSHARA, WI 110 MI	1	\$59.00	\$59.00
Cinna arundinacea	1.09			Υ		1.09	\$560.00	\$610.40											Υ		1.09	\$540.00	\$588.60					
Danthonia spicata		3.13																						N S	ST LOUS, MN 260	3.13	\$324.00	\$1,014.12
Elymus canadensis	37	37		Υ		74	\$12.80	\$947.20						Υ		74	\$10.00	\$740.00	Υ		74	\$32.00	\$2,368.00		CRAWFORD, WI 75 MI		\$9.40	\$695.60
Elymus riparia			15																						RICE, MN 190 MI	15	\$15.40	\$231.00
Glyceria striata	1		1						Υ		1	\$384.00	\$384.00						Υ		2	\$184.00	\$368.00	N V	MNONA, MN 105 MI		\$197.00	\$394.00
Hystrix patula	50																							Y			\$77.00	\$3,850.00
Juncus dudleyi			0.01																Υ		0.01	\$900.00	\$9.00	N G	GREEN LAKE, WI 90 MI	0.01	\$567.00	\$5.67
Juncus torreyi			0.01																									
Panicum implicatum/ lanuginosum		1																										
Panicum virgatum		1.56	1	Υ		2.56	\$8.00	\$20.48						Υ		2.56	\$10.00	\$25.60						Y		2.56	\$6.90	\$17.66
Poa palustris	3		0.13																									
Scirpus atrovirens			0.06	Y		0.06	\$60.00	\$3.60	Υ		0.06	\$835.00	\$50.10	Υ			\$85.00	\$5.10	Y		0.06	\$118.00	\$7.08		VINNEBAGO, WI 105 MI		\$58.00	\$3.48
Scirpus pendulus/lineatus			0.01						Υ		0.01	\$5,000.00	\$50.00			0.01	\$300.00	\$3.00						Y			\$240.00	\$2.40
Spartina pectinata		701	1.25								701	0050.00	04 000 00			7.01	0405.00	04 444 05									\$98.00	\$122.50
Sporobolus heterolepis Agastache nepetoides	0.19	7.81							Υ		7.81	\$256.00	\$1,999.36	Y		7.81	\$185.00	\$1,444.85						Y		7.81	\$174.00	\$1,358.94
Agastache nepetoides Allium cernuum	1.25	55												~		2	\$265.00	\$530.00	M	ALLAMAKEE, IA 180 MI	5	\$218.00	£4,000,00	NI A	ALLAMAKEE, IA 155 MI	E0 25	\$224.00	\$42.482.E0
Amorpha canescens (DH)	1.25	1.24								-				- 1			\$205.00	\$550.00	19.	ALLAWAREE, IA 100 MI	3	\$210.00	\$1,090.00	IN A	ALLAWAREE, IA 100 MI	30.23	\$234.00	\$13,102.30
Anemone canadense		1.24	3.75														_		V		3.75	\$648.00	\$2,430.00	V		3.75	\$388.00	\$1,455.00
Anemone cylindrica (DF)		3.09	5.75		2				- 6										-		0.70	9040.00	\$2,400.00	N A	ALLAMAKEE, IA 155 MI	3.09	\$739.00	\$2,283.51
Aquilegia canadensis	0.63	0.00			A.																-				ALLAMAKEE, IA 155 MI		\$537.00	\$338.31
Asclepias incarnata (DF)	0.00		5						Y		5	\$360.00	\$1,800.00						Y		5	\$208.00	\$1.040.00		OUSTON, MN 170 MI		\$135.00	\$675.00
Asclepias purpurascens (DF)	1.88																										*	
Asclepias sullivanti (DF)			2.5															7										
Asclepias tuberosa (DF)		18.56	7															*						N S	5 MI - 200 MI	18.56	\$447.00	\$8,296.32
Aster azureus (DF)		1.24																						N R	RINGGOLD, 325 MI	1.24	\$724.00	\$897.76
Aster laevis (DF)		1.24			o .									- 3					N	WINONA, MN 200MI	1.24	\$380.00	\$471.20	Y		1.24	\$319.00	\$395.56
Aster lateriflorus (DF)	0.06																		Υ		0.06			N B	BENTON, MN 335 MI	0.06	\$840.00	\$50.40
Aster novae-angliae (DF)		1.24	0.25																Υ		1.49	\$599.00	\$892.51	Y		1.49	\$439.00	\$654.11
Aster oblongifolius (DF)	Į į	1.86																										
Aster puniceus var. firmus (DF)		0.1	0,13						Υ		0.23	\$1,200.00	\$276.00															
Aster sagittifolius (DF)	0.06																											
Aster umbellatus (DF)			0.13						Υ		0.13	\$1,440.00	\$187.20															
Astragalus canadense		6.19							Y		5	00010	\$1,920,00								12.38	\$149.00	\$1.844.62		ALLAMAKEE, IA 155 MI MOWER, MN 230 MI		\$72.00	\$445.68 \$2,092.22
Baptisia leucantha		12.38 18.56							Υ		5	\$384.00	\$1,920.00						Y		12.38	\$149.00	\$1,844.62	N N	MOWER, MN 230 MI	12.38	\$169.00	\$2,092.22
Baptisia leucophaea Blephilia ciliata		18.56																										
Blephilia ciliata Blephilia hirsuta	0.06	0.31																	N	CLAYTON, IA 150 MI	0.06	\$1 109 00	\$66.54					
Boltonia asteroides/latisquama	0.00		0.13											Y		0.13	\$110.00	\$14.30	14	ODATION, IN TOUR	0.00	\$1,108.00	400.04	Y		0.13	\$179.00	\$23.27
Cacalia atriplicifolia (DF)	1.25		0.10						Υ		1.25	\$240.00	\$300.00			0.10	\$110.00	V14.00	Y		1.25	\$189.00	\$236.25	Y		1.25		\$167.50
Camassia scilloides	1160	12.38									1160	36-10-00	4000.00						Y		12.38	\$690.00	\$8.542.20			1.60	4.04.00	4107.00
Campanula americana	0.03								Υ		0.03	\$1,600.00	\$48.00						N	CLAYTON, IA 150 MI	0.03	\$640.00	\$19.20	N H	HOUSTON, MN 170 MI	0.03	\$597.00	\$17.91
Cassia fasciculata		18.56																						Y	2.4,	18.58	\$16.00	\$297.28
Castilleja coccinea		0.25	0.06																									
Chelone glabra			0.13																									
Cicuta maculata			1.25	Y		1.25	\$60.00	\$75.00											Υ		1.25	\$340.00	\$425.00		ST CROIX, MN 260 MI		\$169.00	\$211.25
Coreopsis palmata		12.38												1											COLUMBIA, MN 70 MI	12.38		\$4,630.12
Coreopsis tripteris		6,19															1											
Desmodium canadense (DH)		12.38	1.25																					N H	HOUSTON, MN 170 MI	13.63	\$148.00	\$2,017.24
Desmodium illinoense (DH)		12.38																	Υ		12.38	\$440.00	\$5,447.20					
Dodecatheon meadia	1	2.48						0 1											Υ			\$1,112.00	\$3,869.76	Υ		3.48	\$919.00	\$3,198.12
		24.75							Υ		24.75	\$384.00	\$9,504.00						Υ		24.75	\$132.00	\$3,267.00					
Echinacea pallida										-						1		100										
Echinacea pallida Epilobium coloratum (DF)			0.5																									
		18.56	2.5						Υ		21.06	\$160.00	\$3,369.60						Υ		21.06	\$188.00	\$3,959.28	Y			\$172.00	
Epilobium coloratum (DF)		18.56							Y		21.06 0.25 0.13	\$160.00 \$512.00 \$960.00	\$3,369.60 \$128.00 \$124.80	Υ		0.25	\$300.00	\$75.00	Y		21.06 0.25	\$188.00 \$318.00	\$3,959.28 \$79.50	Y			\$172.00 \$272.00	\$3,622.32 \$68.00

					APPLIED ECOLOGICAL SERV	/ICES				C	ARDNO, IN	IC			SPENCE RES	STORATI	ION NURSER	Y		PRAIRI	IE MOON NU	URSERY			SHOOTING	STAR NA	TIVE SEEDS	S
SPECIES	WOODLAND MIX pls (lbs) (pkg 1)	PRAIRIE MIX pls (lbs) (pkg 2)	WETLAND MIX pls (lbs) (pkg 3)	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY	PPU	EXT
Eupatorium purpureum (DF)	0.19																		Υ		0.19	\$690.00	\$131.10	N	ALLAMAKEE, IA 155 MI	0.19	\$298.00	\$56.62
Euphorbia corollata		12.38																										
Galium boreale	0.3	1.86																										
Gentiana andrewsii			0.06						Υ		0.06	\$2,000.00	\$120.00											N	CLAYTON, IA 140 MI	0.06	\$1,399.00	\$83.94
Gentiana quinquefolia		0.62	1			_														Houston, MN 200 MI	0.62		\$1,438.40	_				
Geranium maculatum	1.88						-							-						CLAYTON, IA 150 MI	1.88		\$3,650.96	-			_	
Helenium autumnale			0.13				1		Υ		0.13	\$448.00	\$58.24	N	HENRY CO., INDIANA (210 MI.)	0.13	\$275.00	\$35.75	Υ		0.13	\$240.00	\$31.20					
Helianthus divaricatus	1.88		_													_			Y		1.88	\$706.00	\$1,327.28	-			_	
Helianthus strumosus Heliopsis helianthoides	1.25	12 38	+			-	1	-											Υ		1.25	\$706.00	\$882.50	V		40.00	\$36.00	\$445.68
Heilopsis neliantnoides Heuchera richardsonii	-	0.19	+			-		_																- 2	MADISON, IA 295 MI	110000000000000000000000000000000000000	\$36.00	\$445.68
Hypericum pyramidatum	 	0.19	0.13			_	+	_							$\overline{}$		-		Y		0.23	\$158.00	\$36.34	Y	MADISON, IA 285 WII	The second second	0000000	\$27.14
Hypoxis hirsuta	 	0.62	0.13			_	+												-1		0.23	\$130.00	\$50.54	-		0.25	\$110.00	921.14
Krigia biflora (DF)		1.24	1				1																		2		=	
Lespedeza capitata (DH)		12.38	1						Y		5	\$240.00	\$1,200.00						Υ		12.38	\$130.00	\$1,609.40	N	KOSSUTH, IA 300 MI	12.38	\$71.00	\$878.98
Liatris aspera (DF)	t	12.38	+				+		Υ		4	\$832.00	\$3,328.00								12.00							-
Liatris spicata (DF)		12.38	1.25						Y		4	\$320.00	\$1,280.00						Υ		13.63	\$132.00	\$1,799.16	Y		13.63	\$117.00	\$1,594.71
Lilium michiganense			2.5																									
Lithospermum canescens		1.86															1								·			
Lobelia cardinalis			0.04																					N	ALLAMAKEE, IA 155 MI	0.04	\$1,147.00	\$45.88
Lobelia inflata	0.03	0.03																	Υ		0.06	\$1,740.00	\$104.40					
Lobelia siphilitica		0.03	0.04														4							N	HOUSTON, MN 170 MI	0.07	\$780.00	\$54.60
Lobelia spicata		0.03	0.19																									
Lythrum alatum		0.005	0.01	Υ		0.015	\$1,344.00	\$20.16											Υ		0.015	\$940.00	\$14.10	Υ			\$794.00	\$11.91
Mimulus ringens		0.06	0.08						Υ		0.14	\$448.00	\$62.72											N	ALLAMAKEE, IA 155 MI	0.14	\$224.00	\$31.36
Monarda fistulosa	0.2	1.24																	Υ		1.44	\$174.00	\$250.56	- 0				
Oxalis violacea		1.86				-																						
Oxypolis rigidior	-	12.38	2.5														2442.00				10.00	\$158.00	\$1,956,04			10.00	2000.00	
Parthenium integrefolium Pedicularis canadensis	0.19	3.09	0.13			_	1	1						Υ		12.38	\$118.00	\$1,460.84	Υ	Houston, MN 200 MI	12.38	4.00.00		N	ALLAMAKEE, IA 155 MI	12.38	\$220.00	\$2,723.60
Penstemon calvoosus	0.19	1.24	0.13	~		1.24	6470.20	6000.01											IN	Houston, WIN 200 IVII	3.41	\$1,190.00	\$4,057.90				_	
Penstemon daycosus Penstemon digitalis	-	1.24	0.01	Y		1.24		\$320.00	Y		1.25	\$192.00	\$240.00													1.25	\$197.00	\$246.25
Penthorum sedoides	 	0.01	0.01	Y		0.02		\$3.58	Y			\$2,500.00												Y		0.02	\$98.00	\$1.96
Petalostemum candidum (DH)	t —	9.28	0.01			0.02	\$110.E0	40.00			0.02	VE,000.00	000.00											N	STEARNS, MN 360 MI			\$1,095,04
Petalostemum purpureum (DH)		9.28	1				1																		KOSSUTH, IA 300 MI			\$315.52
Phlox divericata	1.25																1											
Phlox glaberrima v. interior			1.25						Υ		0.4	\$1,600.00	\$640.00			1			Υ		0.85	\$3,210.00	\$2,728.50	j				
Phlox pilosa		6.19																	N	FREEBORN, MN 275 MI	6.19	\$2,843.00	\$17,598.17	N	KOSSUTH, IA 300 MI	3	\$1,599.00	\$4,797.00
Physostegia virginiana		6.19															9							N	ALLAMAKEE, IA 155 MI	6.19	\$197.00	\$1,219.43
Polygonum virginiana	3.56																		N	Houston, MN 200 MI	3.56	\$540.00	\$1,922.40	1				
Polytaenia nuttalli		24.75																										
Prenanthes racemosa	0.31																0											
Pycnanthemum virginica		0.62	0.13						Υ		0.75	\$1,152.00	\$864.00						Υ		0.75	\$784.00	\$588.00		ALLAMAKEE, IA 155 MI			
Ratibida pinnata		6.19					1																		ALLAMAKEE, IA 155 MI		\$104.00	\$643.76
Rudbeckia hirta Rudbeckia laciniata	-	1.24				_	-		14		1.25	\$400.00	\$500.00											Y				\$22.32
THE STATE OF THE S	0.04		1.25			_	-	_	Y		1,180		10.000				-	-				_		Y	ALLAMAKEE IA 455 MI	1.25		\$272.50
Rudbeckia triloba	0.31	0.10	-				1		Υ		0.31	\$320.00	\$99.20					- 0	v		0	6000.00	\$0.400.00		ALLAMAKEE, IA 155 MI MADISON, IA 295 MI	0.31	\$79.00	\$24.49
Ruellia humilis Scrophularia lanceolata	0.06	6.19	+						Y		0.06	\$835.00	\$50.10						1		3	3032.00	\$2,496.00		WRIGHT, MN 335 MI		\$344.00 \$348.00	\$2,129.36 \$20.88
Scrophularia marilandica	0.06	_	+				1		Y		0.06		\$50.10						Y		0.06	\$480.00	\$28.80		CLAYTON, IA 140 MI		\$348.00	\$20.88
Scutellaria lateriflora	0.00		0.25						-		0.00	9000.00	900.10								0.00	9400.00	450.00		outon, in month	0.00	4300.00	462.00
Silene stellata	0.13		1																Υ		0.13	\$1,850.00	\$240.50					
Silphium integrefolium		18.56	1						Υ		18.56	\$240.00	\$4,454.40											N	ALLAMAKEE, IA 155 MI	18.56	\$347.00	\$6,440.32
Silphium laciniatum		37.13	1						Y		4	\$512.00	\$2,048.00						Υ		15	\$348.00	\$5,220.00		HOUSTON, MN 170 MI	5	\$194.00	\$970.00
Silphium perfoliatum			1.25						Y		1.25	\$96.00	\$120.00	Υ		1.25	\$112.00	\$140.00	Υ		1.25	\$188.00	\$235.00	Υ		1.25	\$117.00	\$146.25
Silphium terebinthinaceum		55.69																	Υ		55.69	\$157.00	\$8,743.33	Υ			\$174.00	\$9,690.06
Sisyrinchium albidum			3.09																									
Solidago flexicaulus (DF)	0.13																											
Solidago riddellii (DF)			0.25																									
Solidago rigida (DF)		3.09							Υ		3.09	\$192.00	\$593.28						Υ		3.09	\$240.00	\$741.60	Υ	,		\$147.00	\$454.23
Solidago ulmifolia (DF)	0.13																							Υ		9110		\$67.34
Taenidia integerrima	1.88																		Υ		1.88	\$250.00	\$470.00	N	HOUSTON, MN 170 MI	1.88	\$639.00	\$1,201.32
Teucrium canadense			1.25																	WINONA, MN 200MI	1.25	\$340.00	\$425.00					-
Thalictrum dasycarpum			1.25														4 2		N	CLAYTON, IA 150 MI	1.25	\$166.00	\$207.50		HOUSTON, MN 170 MI		\$174.00	\$217.50
Tradescantia ohiensis	1.25	18.56	_						Υ		19.81	\$400.00	\$7,924.00											N	RICHLAND, WI 110 MI	19.81	\$284.00	\$5,626.04
Triosteum auranticum	0.63	_	-																									
Vernonia fasciculata (DF)		6.19							Υ		6.19	\$224.00	\$1,386.56											-				
Veronicastrum virginica	0.02	0.12	0.01																					N			\$985.00	\$147.75 \$944.00
Viola pedatifida	ļ	1	-			-		 			_								10		0.40	8040.07	05 000 45	N	MADISON, IA 295 MI	1	\$944.00	3944.00
Viola pedatifida Zizia aptera Zizia aurea		6.19 6.19							V		6.19	2004.22	\$2,376.96						Y		6.19	\$918.00	\$5,682.42 \$891.36	N	MADISON, IA 295 MI		0011.00	\$1,015.16

PLANT PLUG PURCHASE - PRAIRIE WOLF FOREST PRESERVE

Bid: 19051

Bid Title: Native Seed & Plant Plug Purchase for Grant Woods Forest Preserve and Prairie Wolf Forest Preserve

	1		APPLIED EC	OLOGICA	L SERVICE	S		1 0	ARDNO, IN	C.			SPENCE RESTORATION NU	RSERY		
SPECIES	TTL QTY DESIRED	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY AVAIL	PPU	EXT	T-1 (Y/N	Define State County & Miles	QTY AVAIL	PPU	EXT	T-1 (Y/N)	Notes for Tier 2 Plugs: Define State, County, & Miles from Lake Cnty	QTY AVAIL	PPU	EXT
Acorus calamus (Sweet Flag)	380	Y	Willes Holli Lake Only	400	\$1.00	\$400.00	N		400	\$1.30	\$520.00		Hom Lake Only			
Anemone canadensis (Meadow Anemone)	380	Y		384	\$1.70	\$652.80	Y		400	\$1.75	\$700.00					1
Asclepias incarnata (Marsh Milkweed)	1064	Y		1100	\$1.05	\$1,155.00	Ý		1100	\$1.04	\$1,144.00	Υ		1064	\$1.20	\$1,276.80
Aster puniceus firmus	380	Ý		384	\$1.15	\$441.60	Ý		400	\$1.30	\$520.00	<u> </u>		1004	91.20	\$1,270.00
Aster shortii	380	Ÿ		384	\$1.53	\$587.52	Ÿ		400	\$1.75	\$700.00	+				
Bromus ciliatus (Fringed Brome)	912	Y		928	\$1.10	\$1,020.80	Y		950	\$1.40	\$1,330.00	+				
Brachvlectrum erectum	684	Y		704	\$1.53	\$1,020.80	<u>'</u>		930	\$1.40	\$1,550.00	-				-
Calamagrostis canadensis (Bluejoint Grass)	1900	Y	<u> </u>	1900	\$0.95	\$1,805.00	Y		1900	\$0.92	\$1,748.00	Υ		1900	\$1.20	\$2,280.00
Carex annectans (Yellow Fox Sedge)	684	Y		700	\$0.95	\$665.00	,		1900	\$0.92	\$1,740.00	Y		684	\$1.20	\$820.80
		_					N.	140 144	050	60.00	007400	Ť		004	\$1.20	\$020.00
Carex bebbii (Bebb's Oval Sedge)	950 760	Y	-	950 800	\$0.95	\$902.50 \$760.00		WI, Waushara Co, 175 miles	950 800	\$0.92	\$874.00	V		760	64.00	\$912.00
Carex bicknellii (Prairie Oval Sedge)		Y			\$0.95		Υ		800	\$1.20	\$960.00	Y	-	760	\$1.20	\$912.00
Carex blanda (Common Wood Sedge)	760	- 212		768	\$1.53	\$1,175.04	-		-			₩				+
Carex conjuncta (Green-Headed Fox Sedge)	760	Y		768	\$1.53	\$1,175.04	¥.		050	01.01	2000 22	1		050	24.00	01 110 00
Carex cristatella (Crested Oval Sedge)	950	Y		960	\$1.15	\$1,104.00	Y		950	\$1.04	\$988.00	Y		950	\$1.20	\$1,140.00
Carex lacustris (Common Lake Sedge)	1140	Υ		1152	\$1.53	\$1,762.56	Y		1150	\$1.04	\$1,196.00	Υ		1140	\$2.00	\$2,280.00
Carex Iupulina (Common Hop Sedge)	836	Υ		850	\$1.00	\$850.00	Υ		850	\$1.20	\$1,020.00	Υ		836	\$1.20	\$1,003.20
Carex molesta (Field Oval Sedge)	950	Υ		950	\$1.00	\$950.00	Υ		950	\$1.04	\$988.00	Υ		950	\$1.40	\$1,330.00
Carex pellita (Broad-Leaved Woolly Sedge)	950	Υ		960	\$1.05	\$1,008.00	Υ		950	\$1.20	\$1,140.00					
Carex radiata (Straight-Styled Wood Sedge)	684	Υ		704	\$1.53	\$1,077.12			×			Y		684	\$1.70	\$1,162.80
Carex rosea (Curly-Styled Wood Sedge)	684	Υ		704	\$1.53	\$1,077.12										
Carex sartwellii (Running Marsh Sedge)	532	Y		544	\$1.33	\$725.15	Y		550	\$1.50	\$825.00					
Carex scoparia (Lance-Fruited Oval Sedge)	950	Y		950	\$0.95	\$902.50	Υ		950	\$1.04	\$988.00	Y		950	\$1.20	\$1,140.00
Carex sparganoides (Loose-Headed Bracted Sedge)	684	Υ		704	\$1.25	\$880.00						Y		684	\$1.20	\$820.80
Carex sprengelii (Long-Beaked Sedge)	608	Y		608	\$1.70	\$1,033.60								1		
Carex stipata (Common Fox Sedge)	1140	Y		1152	\$1.05	\$1,209.60	Υ		1150	\$0.92	\$1,058.00					
Carex stricta (Common Tussock Sedge)	760	Y		800	\$1.00	\$800.00	Y		800	\$1.20	\$960.00	Y		760	\$1.40	\$1,064.00
Carex tribuloides (Awl-Fruited Oval Sedge)	988	Y		992	\$1.15	\$1,140.80						Y		988	\$1.20	\$1,185.60
Carex tricoparpa (Hairy-Fruited Lake Sedge)	988															
Carex vulpinoidea (Brown Fox Sedge)	1140	Y		1150	\$0.95	\$1,092.50	Y		1150	\$0.92	\$1,058.00	Υ		1140	\$1.20	\$1,368.00
Chelone glabra (Turtlehead)	760	Y		768	\$1.11	\$852.48	Υ		800	\$1.40	\$1,120.00					
Cicuta maculata (Water Hemlock)	836	Y		864	\$2.00	\$1,728.00										
Eupatorium maculatum (Joe Pyeweed)	456	Y		480	\$1.15	\$552.00	Υ		450	\$1.20	\$540.00					1
Eupatorium perfoliatum (Common Boneset)	760	Y		768	\$1.15	\$883.20	Y	3	800	\$1.04	\$832.00					
Helenium autunmale (Sneezeweed)	228	Y		250	\$1.05	\$262.50	Υ		250	\$1,20	\$300.00					
Iris virginica v. shrevei (Blue Flag Iris)	1900	Y		1900	\$1.00	\$1,900.00	Y		1900	\$1.04	\$1,976.00	Y		1900	\$1.30	\$2,470.00
Juncus effusus (Common Rush)	456	Y		480	\$1.15	\$552.00	Y		450	\$1.30	\$585.00	Y		456	\$1.20	\$547.20
Juncus torryei (Torrey's Rush)	456	Y		480	\$1.15	\$552.00			1		4000.00					
Liatris spicata (Marsh Blazing Star)	570	Y		600	\$0.95	\$570.00	Υ		600	\$1.40	\$840.00	Y		570	\$1.30	\$741.00
Lobelia cardinalis (Cardinal Flower)	760	Ÿ		800	\$0.95	\$760.00	Ÿ		800	\$1.20	\$960.00	<u> </u>				4
Lobelia siphilitica (Great Lobelia)	722	Ý		750	\$0.95	\$712.50	Ý		750	\$1.20	\$900.00	Y		722	\$1.20	\$866.40
Mimulus ringens (Monkey Flower)	380	Y		400	\$0.95	\$380.00	Ÿ		400	\$1.15	\$460.00	Ý		380	\$1.20	\$456.00
Physostegia virginiana (Obedient Plant)	950	Y		960	\$1.15	\$1,104.00	+		100	91.10	Ψ-100.00	Ý	1	950	\$1.20	\$1,140.00
Pycnanthemum virginianum (Common Mountainmint)	608	Ý		608	\$1.05	\$638.40	Y		600	\$1.30	\$780.00	N	HENRY CO, INDIANA (210 MI.)	608	\$1.20	\$729.60
Scirpus pendulus (Nodding Bulrush)	836	Y		850	\$1.05	\$892.50	Y		850	\$1.04	\$884.00	Y	TILLIAN CO, INDIANA (210 WIL)	836	\$1.20	\$1,003,20
Scutellaria lateriflora (Mad-Dog Skullcap)	760	· ·		768	\$3.00	\$2.304.00	Ý		800	\$1.40	\$1,120,00	1	1	000	91.20	\$1,000.20
Spartina pectinata (Prairie Cord Grass)	1330	Y	 	1350	\$0.90	\$1.215.00	1		000	91.40	ψ1,120.00	Υ		1330	\$1.15	\$1,529.50
Sporobolus heterolepis (Prairie Dropseed)	1710	Y		1750	\$1.00	\$1,215.00	Y		1700	\$1.10	\$1.870.00	Y		1710	\$1.15	\$1,966.50
	1710	Y		1750	\$1.00	\$1,750.00	1		1700	\$1.10	\$1,070.00	T		1710	31.15	⊕1,900.5U
Thalictrum dasycarpum (Purple Meadowrue)		Y		480			Y		450	64.60	\$675.00	-		456		+
Vernonia fasciculata (Common Ironweed)	456	Y			\$1.05	\$504.00			450	\$1.50		_				+
Veronicastrum virginicum (Culvers Root)	836	Ι Υ	1	864	\$1.05	\$907.20	Υ		850	\$1.20	\$1,020.00			836		