



PENNSYLVANIA GAME COMMISSION

BUREAU OF WILDLIFE HABITAT MANAGEMENT

2001 ELMERTON AVENUE HARRISBURG, PA 17110-9797 | (717) 787-6818

January 27th, 2026

INVITATION FOR BIDS (IFB) STATEWIDE HABITAT MANAGEMENT SEED ORDER

Dear Prospective Bidders:

The Bureau of Wildlife Habitat Management (BWHM) of the Pennsylvania Game Commission (PGC) is soliciting bids for multiple habitat and cover crop seed mixtures, to be planted on State Game Lands across the Commonwealth of Pennsylvania.

Bids are to be submitted electronically through the Commonwealth's "PA Supplier Portal" system **by 2 PM on Wednesday, March 4th, 2026**. If you have not registered as a vendor with the Commonwealth in the past, you must register first at www.pasupplierportal.state.pa.us prior to submitting an electronic bid. Any questions regarding the "PA Supplier Portal" may be directed to Bobbi Mercer (bmercer@pa.gov) at 717-787-6594.

The bid shall be awarded on a **line-item basis**. This bid will be awarded as two separate line items, with each project being an individual line item. The **per unit and total bid price** shall include the cost of all labor, materials, delivery, and all miscellaneous expenses necessary for the completion of the tasks specified in the attached "General Specifications" of this bid packet. Prices bid shall be in United States dollars and cents only. Payment will be dispersed based on the amount of the specified work completed as per the requirements listed in this bid packet and attached documents. **Work may begin after the PO is received by the vendor. The specified habitat and cover crop seed mixtures must be received at each PGC Regional Office by no later than May 15th, 2026.**

The attached documents provide all necessary seed mixture specifications, delivery instructions, regional contact information, etc. Any questions about this request for bids can be directed to:

Curtis J. Noll

Curtis J. Noll
Public Lands Section Chief
Office: 717-787-4250 x73612
Cell: 610-413-1706
Email: cunoll@pa.gov

**GENERAL SPECIFICATIONS
PENNSYLVANIA GAME COMMISSION
BUREAU OF WILDLIFE HABITAT MANAGEMENT**

I. SCOPE OF WORK:

A. The Pennsylvania Game Commission (PGC), Bureau of Wildlife Habitat Management (BWHM) requires multiple habitat and cover crop seed mixtures to be planted on State Game Lands across the Commonwealth of Pennsylvania.

It is the purpose and intent of this document to provide specifications for all habitat and cover crop seed mixtures to be delivered to the PGC by the successful bidder(s). Services shall include, but are not limited to, the furnishing of all stated habitat and cover crop seed mixtures in the specified quantities and varieties. Services shall include the expense to harvest, manufacture, dry, package, and distribute all habitat and cover crop seed mixtures to the PGC Regional Offices specified on the following pages.

All Purchase Orders require the contractor to provide the seed, packaging, shipping materials, shipping expenses, and all miscellaneous expenses to complete the requested services.

B. This project is being bid on a line-item basis. This bid will be awarded as two separate line items given the following category names: **1) Habitat Seed Mixtures;** and **2) Cover Crop Seed Mixtures.**

Any questions concerning the technical aspects of this habitat and cover crop seed mixture project should be directed to:

Curtis J. Noll, Public Lands Section Chief
Pennsylvania Game Commission
Bureau of Wildlife Habitat Management
2001 Elmerton Avenue
Harrisburg, PA 17110
Office: 717-787-4250 x73612
Cell: 610-413-1706
Email: cunoll@pa.gov

II. CONTRACT TASKS:

- A.** The successful bidder(s) (hereafter vendor) shall fulfill all obligations of this contract by **May 15th, 2026.**
- B.** Seed Mixtures – The vendor is required to provide all seed mixtures specified in the attached specifications sheet (Attachment 1). The vendor will also provide all shipping materials, and associated labor and services. All habitat and cover crop seed mixtures in the specified quantities and varieties **shall be received by the Pennsylvania Game Commission no later than May 15th, 2026.**

- C. Vendor shall comply with all specifications and shipping instructions specified in Attachment 1 - "Seed Mixtures, Packaging, and Shipping Specifications".

III. CONTRACT REQUIREMENTS:

- A. Vendor shall fulfill all obligations of the contract **by no later than May 15th, 2026.**
- B. The vendor agrees to comply with all specifications in Attachment 1 - "Seed Mixtures, Packaging, and Shipping Specifications, and Attachment 2 - Species/Variety Tables for Habitat and Cover Crop Seed Mixtures." The Commission reserves the right to reject any or all bids.
- C. Failure to comply with any of the terms or conditions of this contract may result in cancellation of the agreement, and claim may be made against the surety or the security for all or part of the damages sustained by non-compliance.
- D. Any extension of time under the contract, or forbearance of cancellation and claim against the surety will not result in a release of surety or the vendor from their obligations under the contract and the surety.

IV. BID AWARD:

The bid shall be awarded on a **line-item basis**. This bid will be awarded as two separate line items, with each line-item listed below:

- A. **Line Item #1: Habitat Seed Mixtures** – 14 seed mixtures, totaling approximately 4,906 pounds.
- B. **Line Item #2: Cover Crop Seed Mixtures** – 12 seed mixtures, totaling approximately 10,100 pounds.

The bid for each line item will be awarded to the bidder(s) with the lowest total price for the specified line item. A purchase order will be awarded to the successful vendor(s) for each line-item of this project.

Bids are to be submitted electronically through the Commonwealth's "PA Supplier Portal" system **by 2 PM on Wednesday, March 4th, 2026**. If you have not registered as a vendor with the Commonwealth in the past, you must register first at www.pasupplierportal.state.pa.us prior to submitting an electronic bid. Any questions regarding this may be directed to Bobbi Mercer (bmercerc@pa.gov) at 717-787-6594.

The Commission reserves the right to reject any or all bids and to choose the bid that, in its sole opinion, best meets the needs of this project of the Commission.

ALL VENDORS WHO CONDUCT BUSINESS WITH THE PENNSYLVANIA GAME COMMISSION MUST HAVE A VENDOR NUMBER ASSIGNED TO THEM IN ORDER TO RECEIVE PAYMENT FROM THE COMMONWEALTH.

V. CONTRACT TERM:

The contract term shall commence upon the vendor's receipt of the fully executed Purchase Order (PO). The requested habitat and cover crop seed mixtures in the quantities and varieties specified **must be received by May 15th, 2026.** This contract will not be extended beyond **May 29th, 2026, for any reason.**

VI. PAYMENT TERMS:

Payment shall be made on a per pound basis for each of the 4,906 pounds of habitat seed and 10,100 pounds of cover crop seed properly shipped and received by the PGC as determined by the specified PGC representative or his/her designee.

VII. ATTACHMENTS:

- **ATTACHMENT 1** - "Seed Mixtures, Packaging, and Shipping Specifications."
- **ATTACHMENT 2** – "Species/Variety Tables for Habitat and Cover Crop Seed Mixtures"

ATTACHMENT 1 – Seed Mixtures, Packaging, and Shipping Specifications

1. This contract requires the vendor to supply the Pennsylvania Game Commission with 14 habitat seed mixtures and 12 cover crop seed mixtures in various quantities, that include many species/varieties. All 14 habitat seed mixtures specified total approximately 4,906 pounds (in bulk pounds). All 12 cover crop seed mixtures specified total approximately 10,100 (in bulk pounds).
2. The specified varieties/ecotypes must be supplied for each requested species, when available. If the requested varieties/ecotypes are not available for any species requested as part of the specified habitat and cover crop seed mixtures, suitable varieties/ecotypes for Pennsylvania can be substituted when needed, with prior approval from the Commission.
3. All habitat and cover crop seeds supplied by the vendor **SHALL NOT be treated with any neonicotinoid pesticide seed coatings.** Only neonicotinoid free seeds will be accepted by the Commission to fulfill this contract.
4. Legume species supplied as part of specified mixtures should be pre-treated with species-specific bacterial inoculants as required, according to standard industry protocols.
5. All habitat and cover crop seed mixtures supplied by the vendor shall be provided in a quantity of bulk pounds. Tested germination rates shall exceed current industry minimums for all species of seed supplied.
6. All seeds shall have been properly collected and handled following standard industry protocols and stored to ensure optimum germination during calendar year 2026.
7. All habitat and cover crop seed mixtures supplied by the vendor shall be shipped in appropriate bags for transporting seed. For identification purposes, each bag containing seed shall be labeled at a minimum with the following: hybrid, variety and species name, seed purity percentage, tested germination rate, test date, noxious weed percentage, sell by date, and lot number. Individual seed mixture bags **shall not exceed a net weight of 50 pounds.**
8. Habitat and cover crop seed mixtures delivered to each Pennsylvania Game Commission Regional Office must include the following habitat and cover crop seed mixtures in the specified quantities (in bulk pounds) and varieties (see species/variety tables in Attachment 2), for each line item:
 - A. **Line Item #1: Habitat Seed Mixtures** – 14 seed mixtures, totaling approximately 4,906 pounds.

<i>Line Item 1 Seed Mixture Specifications</i>		
Habitat Seed Mixture #	Quantity	PGC Region
Habitat Seed Mixture 1	210 pounds	Southwest
Habitat Seed Mixture 2	40 pounds	Southwest
Habitat Seed Mixture 3	100 pounds	Southwest
Habitat Seed Mixture 4	140 pounds	Southwest
Habitat Seed Mixture 5	80 pounds	Southwest
Habitat Seed Mixture 6	50 pounds	Northcentral
Habitat Seed Mixture 7	736 pounds	Northcentral
Habitat Seed Mixture 8	60 pounds	Northcentral
Habitat Seed Mixture 9	200 pounds	Northcentral
Habitat Seed Mixture 10	1000 pounds	Northcentral
Habitat Seed Mixture 11	800 pounds	Northcentral
Habitat Seed Mixture 12	100 pounds	Southcentral
Habitat Seed Mixture 13	250 pounds	Northeast
Habitat Seed Mixture 14	1200 pounds	Southeast

B. Line Item #2: Cover Crop Seed Mixtures – 12 seed mixtures, totaling approximately 10,100 pounds.

<i>Line Item 2 Seed Mixture Specifications</i>		
Cover Crop Seed Mixture #	Quantity	PGC Region
Cover Crop Seed Mixture 1	300 pounds	Northcentral
Cover Crop Seed Mixture 2	400 pounds	Northcentral
Cover Crop Seed Mixture 3	1240 pounds	Northcentral
Cover Crop Seed Mixture 4	1300 pounds	Northcentral
Cover Crop Seed Mixture 5	2800 pounds	Northcentral
Cover Crop Seed Mixture 6	1070 pounds	Northcentral
Cover Crop Seed Mixture 7	800 pounds	Northcentral
Cover Crop Seed Mixture 8	500 pounds	Northcentral
Cover Crop Seed Mixture 9	400 pounds	Northcentral
Cover Crop Seed Mixture 10	550 pounds	Northcentral
Cover Crop Seed Mixture 11	240 pounds	Southcentral
Cover Crop Seed Mixture 12	500 pounds	Southcentral

9. The requested habitat and cover crop seed mixtures in the quantities and varieties specified, **shall be received by the Pennsylvania Game Commission no later than May 15th, 2026.** All seed mixtures shall be shipped and delivered to the appropriate Pennsylvania Game Commission Regional Offices specified. The mailing address and a representative for each Pennsylvania Game Commission Regional Office are listed below:

a) **Southwest Regional Office**

Attn: Matthew Lucas
Pennsylvania Game Commission
4820 Route 711
Bolivar, PA 15923
Phone: (724) 238-9523
Email: matthlucas@pa.gov

b) **Northcentral Regional Office**

Attn: Jason Wagner
Pennsylvania Game Commission
PO Box 5038, 1566 S Route 44 Highway
Jersey Shore, PA 17740
Phone: (570) 398-4744
Email: jasonwagne@pa.gov

c) **Southcentral Regional Office**

Attn: Christopher Skipper
Pennsylvania Game Commission
8627 William Penn Highway
Huntingdon, PA 16652
Phone: (814) 643-1831
Email: chskipper@pa.gov

d) **Northeast Regional Office**

Attn: Justin Klugh
Pennsylvania Game Commission
3917 Memorial Highway
Dallas, PA 18612
Phone: (570) 675-1143
Email: jklugh@pa.gov

e) **Southeast Regional Office**

Attn: Steve Ferreri
Pennsylvania Game Commission
253 Snyder Road
Reading, PA 19605
Phone: (610) 926-3136
Email: aferreri@pa.gov

ATTACHMENT 2 – Species/Variety Tables for each Seed Mixture

1. Seed mixtures to be shipped to Southwest Region (Habitat Seed Mixtures 1-5):

Species/Variety Table for "Habitat Seed Mixture 1"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Little bluestem (<i>Schizachyrium scoparium</i>) PA Ecotype	18.00%	37.8
Junegrass (<i>Koeleria macrantha</i>)	15.00%	31.5
Narrowleaf mountain mint (<i>Pycnanthemum tenuifolium</i>)	10.00%	21.0
Purple Coneflower (<i>Echinacea purpurea</i>) OH Ecotype	8.00%	16.8
Sideoats Grama (<i>Bouteloua curtipendula</i>)	7.50%	15.8
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	6.00%	12.6
Anise Hyssop (<i>Agastache foeniculum</i>)	5.00%	10.5
Purpletop (<i>Tridens flavus</i>) PA Ecotype	5.00%	10.5
Bottlebrush Grass (<i>Elymus hystrix</i>) PA Ecotype	5.00%	10.5
Deertongue, 'Tioga' (<i>Panicum clandestinum</i>)	5.00%	10.5
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	3.00%	6.3
Lanceleaf coreopsis (<i>Coreopsis lanceolata</i>)	2.00%	4.2
Butterfly milkweed (<i>Asclepias tuberosa</i>) PA Ecotype	2.00%	4.2
Wild Bergamont (<i>Monarda fistulosa</i>) PA Ecotype	2.00%	4.2
Golden Alexanders (<i>Zizia aurea</i>) PA Ecotype	1.50%	3.2
Tall White Beardtongue (<i>Penstemon digitalis</i>) PA Ecotype	1.50%	3.2
Yellow False Indigo (<i>Baptisia tinctoria</i>) PA Ecotype	1.00%	2.1
Gray Goldenrod (<i>Solidago nemoralis</i>) PA Ecotype	1.00%	2.1
Aromatic aster (<i>Aster oblongifolius</i>) PA Ecotype	0.60%	1.3
Common Milkweed (<i>Asclepias syriaca</i>) PA Ecotype	0.50%	1.1
Blue False Indigo (<i>Baptisia australis</i>) PA Ecotype	0.20%	0.4
Ohio spiderwort (<i>Tradescantia ohiensis</i>) PA Ecotype	0.20%	0.4
Seed Mix Total Weight (in bulk pounds)		210.0

Species/Variety Table for "Habitat Seed Mixture 2"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Big bluestem (<i>Andropogon gerardii</i>)	9.00%	3.6
Great Blue Lobelia (<i>Lobelia siphilitca</i>)	8.50%	3.4
Boneset (<i>Eupatorium perfoliatum</i>)	8.50%	3.4
Culver's Root (<i>Veronicastrum virginicum</i>)	8.00%	3.2
Purple Coneflower (<i>Echinacea purpurea</i>)	8.00%	3.2
Wild Bergamont (<i>Monarda fistulosa</i>) PA Ecotype	8.00%	3.2
Blue Vervain (<i>Verbena hastata</i>)	8.00%	3.2

Fox sedge (<i>Carex vulpinoidea</i>)	6.50%	2.6
Joe Pye weed (<i>Eupatorium fistulosum</i>)	6.00%	2.4
Grassleaf Goldenrod (<i>Euthamia graminifolia</i>)	5.00%	2.0
New England aster (<i>Aster novae-angliae</i>)	5.00%	2.0
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	4.25%	1.7
Common Sneezeweed (<i>Helenium autumnale</i>)	4.00%	1.6
New York ironweed (<i>Vernonia noveboracensis</i>)	3.00%	1.2
Golden Alexanders (<i>Zizia aurea</i>) PA Ecotype	2.00%	0.8
Wingstem (<i>Verbesina alternifolia</i>)	2.00%	0.8
Cup plant (<i>Silphium perfoliatum</i>)	1.25%	0.5
Ohio spiderwort (<i>Tradescantia ohiensis</i>) PA Ecotype	1.00%	0.4
Swamp Milkweed (<i>Asclepias incarnata</i>)	1.00%	0.4
Tussock sedge (<i>Carex strictga</i>)	1.00%	0.4
Seed Mix Total Weight (in bulk pounds)		40.0

Species/Variety Table for "Habitat Seed Mixture 3"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	32.00%	32.0
Little bluestem (<i>Schizachyrium scoparium</i>) PA Ecotype	17.60%	17.6
Bottlebrush Grass (<i>Elymus hystrix</i>) PA Ecotype	17.60%	17.6
Sideoats Grama (<i>Bouteloua curtipendula</i>)	12.40%	12.4
Deertongue, 'Tioga' (<i>Panicum clandestinum</i>)	5.00%	5.0
Purpletop (<i>Tridens flavus</i>) PA Ecotype	2.80%	2.8
Lanceleaf coreopsis (<i>Coreopsis lanceolata</i>)	2.40%	2.4
Golden Alexanders (<i>Zizia aurea</i>) PA Ecotype	2.20%	2.2
Junegrass (<i>Koeleria macrantha</i>)	1.60%	1.6
Butterfly milkweed (<i>Asclepias tuberosa</i>) PA Ecotype	1.20%	1.2
Nodding Onion (<i>Allium cernuum</i>) PA Ecotype	1.00%	1.0
Yellow False Indigo (<i>Baptisia tinctoria</i>) PA Ecotype	0.80%	0.8
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	0.80%	0.8
Anise Hyssop (<i>Agastache foeniculum</i>)	0.80%	0.8
Ohio spiderwort (<i>Tradescantia ohiensis</i>) PA Ecotype	0.40%	0.4
Narrowleaf mountain mint (<i>Pycnanthemum tenuifolium</i>)	0.40%	0.4
Wild Bergamont (<i>Monarda fistulosa</i>) PA Ecotype	0.40%	0.4
Hairy Beardtongue (<i>Penstemon hirsutus</i>)	0.20%	0.2
Gray Goldenrod (<i>Solidago nemoralis</i>) PA Ecotype	0.20%	0.2
Aromatic aster (<i>Aster oblongifolius</i>) PA Ecotype	0.20%	0.2
Seed Mix Total Weight (in bulk pounds)		100.0

Species/Variety Table for "Habitat Seed Mixture 4"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Little bluestem (<i>Schizachyrium scoparium</i>) PA Ecotype	16.40%	23.0
Switchgrass, Shawnee (<i>Panicum virgatum</i> , Shawnee)	13.51%	18.9
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	12.51%	17.5
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	11.00%	15.4
Wild Senna (<i>Senna hebecarpa</i>)	10.00%	14.0
Oxeye sunflower (<i>Heliposis helianthoides</i>) PA Ecotype	8.20%	11.5
Showy Ticktrefoil (<i>Desmodium canadense</i>)	8.00%	11.2
Plains Coreopsis (<i>Coreopsis tinctoria</i>)	7.00%	9.8
Tall White Beardtounge (<i>Penstemon digitalis</i>)	4.00%	5.6
Evening Primrose (<i>Oenothera biennis</i>)	4.00%	5.6
Wild Bergamont (<i>Monarda fistulosa</i>) PA Ecotype	2.40%	3.4
Common Milkweed (<i>Asclepias syriaca</i>) PA Ecotype	2.40%	3.4
Butterfly milkweed (<i>Asclepias tuberosa</i>) PA Ecotype	0.57%	0.8
Seed Mix Total Weight (in bulk pounds)		140.0

Species/Variety Table for "Habitat Seed Mixture 5"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Little bluestem (<i>Schizachyrium scoparium</i>) PA Ecotype	24.50%	19.6
Purple Coneflower (<i>Echinacea purpurea</i>)	10.50%	8.4
Butterfly milkweed (<i>Asclepias tuberosa</i>) PA Ecotype	10.00%	8.0
Indiangrass (<i>Sorghastrum nutans</i>) PA Ecotype	9.00%	7.2
Wild Bergamont (<i>Monarda fistulosa</i>) PA Ecotype	9.00%	7.2
Narrowleaf mountain mint (<i>Pycnanthemum tenuifolium</i>)	9.00%	7.2
Common Milkweed (<i>Asclepias syriaca</i>) PA Ecotype	8.00%	6.4
New England aster (<i>Aster novae-angliae</i>)	4.00%	3.2
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	3.00%	2.4
Wrinkleleaf Goldenrod (<i>Solidago rugosa</i>) PA Ecotype	3.00%	2.4
Gray Goldenrod (<i>Solidago nemoralis</i>) PA Ecotype	3.00%	2.4
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	2.00%	1.6
Ohio spiderwort (<i>Tradescantia ohioensis</i>) PA Ecotype	2.00%	1.6
Marsh Blazing Star (<i>Liatris spicata</i>)	1.00%	0.8
Cup plant (<i>Silphium perfoliatum</i>)	1.00%	0.8
Golden Alexanders (<i>Zizia aurea</i>) PA Ecotype	1.00%	0.8
Seed Mix Total Weight (in bulk pounds)		80.0

2. Seed mixtures to be shipped to Northcentral Region:

A. Habitat Seed Mixtures 6-11:

Species/Variety Table for "Habitat Seed Mixture 6"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	17.58%	8.8
Blanketflower (<i>Gaillardia aristata</i>)	17.33%	8.7
Purple Coneflower (<i>Echinacea purpurea</i>)	15.60%	7.8
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	11.87%	5.9
Sideoats Grama (<i>Bouteloua curtipendula</i>)	7.50%	3.8
Browneyed Susan (<i>Rudbeckia triloba</i>)	6.63%	3.3
Maximillian Sunflower (<i>Helianthus maximilianii</i>)	6.00%	3.0
Oxeye sunflower (<i>Heliposis helianthoides</i>) PA Ecotype	4.99%	2.5
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	2.99%	1.5
Tall White Beardtounge (<i>Penstemon digitalis</i>)	2.47%	1.2
Grey Headed Coneflower (<i>Ratibida pinnata</i>)	2.40%	1.2
Plains Coreopsis (<i>Coreopsis tinctoria</i>)	2.28%	1.1
Wingstem (<i>Verbesina alternifolia</i>)	0.93%	0.5
Cup plant (<i>Silphium perfoliatum</i>)	0.92%	0.5
Wild Bergamot, Fort Indiantown Gap-PA Ecotype (<i>Monarda fistulosa</i>)	0.50%	0.3
Seed Mix Total Weight (in bulk pounds)		50.0

Species/Variety Table for "Habitat Seed Mixture 7"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	100%	736.0
Seed Mix Total Weight (in bulk pounds)		736.0

Species/Variety Table for "Habitat Seed Mixture 8"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Showy Ticktrefoil (<i>Desmodium canadense</i>)	93.33%	56.0
Maximillian Sunflower (<i>Helianthus maximilianii</i>)	6.67%	4.0
Seed Mix Total Weight (in bulk pounds)		60.0

Species/Variety Table for "Habitat Seed Mixture 9"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Black Eye Susan PA Ecotype (<i>Rudbeckia hirta</i>)	6.00%	12.0
Perennial Blanket Flower (<i>Galliardia aristata</i>)	5.00%	10.0
Perennial Blue Flax (<i>Linum perenne</i>)	5.00%	10.0
Illinois Bundle Flower (<i>Desmanthus illinoensis</i>)	5.00%	10.0
Lanceleaf Coreopsis (<i>Coreopsis lanceolata</i>)	5.00%	10.0
Plains Coreopsis (<i>Coreopsis tinctoria</i>)	5.00%	10.0
Yellow Prairie Coneflower (<i>Ratibida columnifera</i>)	5.00%	10.0
Maximillian Sunflower (<i>Helianthus maximilianii</i>)	5.00%	10.0
Panicledleaf Ticktrefoil, PA Ecotype (<i>Desmodium paniculatum</i>)	5.00%	10.0
Oxeye Sunflower, PA Ecotype (<i>Heliopsis helianthoides</i>)	5.00%	10.0
Winter Bentgrass, Piedmont NC Ecotype (<i>Agrostis hyemalis</i>)	5.00%	10.0
Indiangrass, PA Ecotype (<i>Sorghastrum nutans</i>)	4.00%	8.0
Little Bluestem, PA Ecotype (<i>Schizachyrium scoparium</i>)	4.00%	8.0
Blue Vervain (<i>Verbena hastata</i>)	4.00%	8.0
Deertongue, Tioga (<i>Panicum clandestinum</i> , Tioga)	4.00%	8.0
Bigleaf Lupine (<i>Lupinus polyphyllus</i>)	3.00%	6.0
Golden Alexanders, PA Ecotype (<i>Zizia aurea</i>)	3.00%	6.0
Partridge Pea, PA Ecotype (<i>Chamaecrista fasciculata</i>)	3.00%	6.0
Autumn Bentgrass, Albany Pine Bush-NY Ecotype (<i>Agrostis perennans</i>)	3.00%	6.0
Tall White Beardtongue, PA Ecotype (<i>Penstemon digitalis</i>)	2.00%	4.0
Boneset, PA Ecotype (<i>Eupatorium perfoliatum</i>)	2.00%	4.0
Wild Bergamot, Fort Indiantown Gap-PA Ecotype (<i>Monarda fistulosa</i>)	2.00%	4.0
Indianhemp, PA Ecotype (<i>Apocynum cannabinum</i>)	1.00%	2.0
Nodding Onion, PA Ecotype (<i>Allium cernuum</i>)	1.00%	2.0
New England Aster, PA Ecotype (<i>Aster novae-angliae</i>)	1.00%	2.0
Wild Senna (<i>Senna hebecarpa</i>)	1.00%	2.0
Ohio Spiderwort, PA Ecotype (<i>Tradescantia ohiensis</i>)	0.70%	1.4
Gray Goldenrod, PA Ecotype (<i>Solidago nemoralis</i>)	0.50%	1.0
Common Milkweed (<i>Asclepias syriaca</i>)	0.50%	1.0
Common Blackberry, PA Ecotype (<i>Rubus allegheniensis</i>)	0.50%	1.0
New York Ironweed, PA Ecotype (<i>Vernonia noveboracensis</i>)	0.50%	1.0
Blue False Indigo, PA Ecotype (<i>Baptisia australis</i>)	0.50%	1.0
Narrowleaf Mountainmint (<i>Pycnanthemum tenuifolium</i>)	0.40%	0.8
Flat Topped White Aster, PA Ecotype (<i>Aster umbellatus</i>)	0.40%	0.8
Wrinkleleaf Goldenrod, PA Ecotype (<i>Solidago rugosa</i>)	0.40%	0.8
Marsh Blazing Star, PA Ecotype (<i>Liatris spicata</i>)	0.40%	0.8
Zigzag Aster, PA Ecotype (<i>Aster prenanthoides</i>)	0.20%	0.4
Smooth Blue Aster, NY Ecotype (<i>Aster laevis</i>)	0.20%	0.4
Butterfly Milkweed (<i>Asclepias tuberosa</i>)	0.20%	0.4

Aromatic Aster, PA Ecotype (<i>Aster oblongifolius</i>)	0.20%	0.4
Sundrops (<i>Oenothera fruticosa</i> var. <i>fruticosa</i>)	0.20%	0.4
Lowrie's Blue Wood Aster, PA Ecotype (<i>Aster lowrieanus</i> , PA Ecotype)	0.20%	0.4
Seed Mix Total Weight (in bulk pounds)		200.0

Species/Variety Table for "Habitat Seed Mixture 10"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
White Clover, Ladino (<i>trifolium repens</i>)	32.00%	320.0
Crimson Clover (<i>Trifolium incarnatum</i>)	19.00%	190.0
Timothy (<i>Phleum pratense</i>)	16.00%	160.0
Purpletop (<i>Tridens flavus</i>) PA Ecotype	8.00%	80.0
Virginia Wildrye (<i>Elmus virginicus</i>) NY Ecotype	8.00%	80.0
Partridge Pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	8.00%	80.0
Little bluestem (<i>Schizachyrium scoparium</i>) PA Ecotype	5.00%	50.0
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	4.00%	40.0
Seed Mix Total Weight (in bulk pounds)		1000.0

Species/Variety Table for "Habitat Seed Mixture 11"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
<i>Echinacea purpurea</i> , Purple Coneflower	22.30%	178.4
<i>Coreopsis lanceolata</i> , Lanceleaf Coreopsis	8.90%	71.2
<i>Penstemon digitalis</i> , PA Ecotype Tall White Beardtounge	8.90%	71.2
<i>Rudbeckia hirta</i> , Blackeyed Susan	8.90%	71.2
<i>Chamaecrista fasciculata</i> , PA Ecotype Partridge Pea	8.60%	68.8
<i>Verbena hastata</i> , PA Ecotype Blue Vervain	7.40%	59.2
<i>Heliopsis helianthoides</i> , PA Ecotype Oxeye Sunflower	4.50%	36.0
<i>Zizia aurea</i> , PA Ecotype Golden Alexanders	3.90%	31.2
<i>Lespedeza capitata</i> , RI Ecotype Roundhead Lespedeza	3.70%	29.6
<i>Senna hebecarpa</i> , VA & WV Ecotype Wild Senna	3.00%	24.0
<i>Asclepias incarnata</i> , PA Ecotype Swamp Milkweed	2.10%	16.8
<i>Asclepias tuberosa</i> , Butterfly Milkweed	2.10%	16.8
<i>Aster pilosus</i> , PA Ecotype Heath Aster	1.80%	14.4
<i>Baptisia australis</i> , Southern WV Ecotype Blucot	1.50%	12.0
<i>Eupatorium perfoliatum</i> , PA Ecotype Boneset	1.50%	12.0
<i>Gaura biennis</i> , PA Ecotype Biennial Beeblos	1.50%	12.0
<i>Rudbeckia triloba</i> , WV Ecotype Browneyed Susan	1.50%	12.0
<i>Aster lateriflorus</i> , Calico Aster	1.20%	9.6
<i>Pycnanthemum tenuifolium</i> , Narrowleaf Mountian Mint	1.20%	9.6
<i>Asclepias syriaca</i> , PA Ecotype Common Milkweed	0.90%	7.2

Monarda fistulosa, Fort Indiantown Gap Wild Bergamot	0.90%	7.2
Pycnanthemum incanum, Hoary Mountainmint	0.90%	7.2
Solidago nemoralis, PA Ecotype Gray Goldenrod	0.90%	7.2
Aster umbellatus, PA Ecotype Flat Topped Aster	0.70%	5.6
Lobelia siphilitica, PA Ecotype Great Blue Lobelia	0.30%	2.4
Mimulus ringens, PA Ecotype Square Stem	0.30%	2.4
Solidago bicolor, PA Ecotype White Goldenrod	0.30%	2.4
Solidago juncea, PA Ecotype Early Goldenrod	0.30%	2.4
Seed Mix Total Weight (in bulk pounds)		800.0

B. Cover Crop Seed Mixtures 1-10

Species/Variety Table for "Cover Crop Seed Mixture 1"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Red Clover, Medium (trifolium pratense, Medium)	25.00%	75.0
White Clover, White Dutch (trifolium repens)	25.00%	75.0
White Clover, Ladino (trifolium repens, Ladino)	25.00%	75.0
Alsike Clover (Trifolium hybridum)	25.00%	75.0
Seed Mix Total Weight (in bulk pounds)		300.0

Species/Variety Table for "Cover Crop Seed Mixture 2"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Radish, Daikon (Raphinus sativus)	60.00%	240.0
Turnip, Purple Top (Brassica rapa)	20.00%	80.0
Sugar Beet (Beta vulgaris)	20.00%	80.0
Seed Mix Total Weight (in bulk pounds)		400.0

Species/Variety Table for "Cover Crop Seed Mixture 3"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
White Clover, White Dutch (trifolium repens)	77.00%	954.8
Red Clover, Medium (trifolium pratense, Medium)	23.00%	285.2
Seed Mix Total Weight (in bulk pounds)		1240.0

Species/Variety Table for "Cover Crop Seed Mixture 4"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
White Clover, White Dutch (trifolium repens)	40.00%	520.0
Red Clover, Medium (trifolium pratense, Medium)	27.00%	351.0
White Clover, Ladino (trifolium repens, Ladino)	19.00%	247.0
Alsike Clover (Trifolium hybridum)	14.00%	182.0
Seed Mix Total Weight (in bulk pounds)		1300.0

Species/Variety Table for "Cover Crop Seed Mixture 5"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Austrian Winter Pea (Pisum arvense)	100.00%	2800.0
Seed Mix Total Weight (in bulk pounds)		2800.0

Species/Variety Table for "Cover Crop Seed Mixture 6"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
White Clover, Ladino (trifolium repens, Ladino)	35.00%	374.5
Red Clover, Medium (trifolium pratense, Medium)	12.00%	128.4
White Clover, White Dutch (trifolium repens)	12.00%	128.4
Alfalfa (Medicago sativa)	11.00%	117.7
Forage Turnip, Appin (Brassica rapa, Appin)	10.00%	107.0
Small Burnet, Delar (Sanguisorba minor)	10.00%	107.0
Red Clover, Mammoth (trifolium pratense, Mammoth)	7.00%	74.9
Sugar Beet (Beta vulgaris)	3.00%	32.1
Seed Mix Total Weight (in bulk pounds)		1070.0

Species/Variety Table for "Cover Crop Seed Mixture 7"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Orchardgrass (Dactylis glomerata)	35.00%	280.0
Sugarcrest (Festulolium)	30.00%	240.0
Perennial Ryegrass, Non-Turf Type (Lolium perenne)	25.00%	200.0
White Clover, Stamina (Trifolium repens, Stamina)	5.00%	40.0
Red Clover, Medium (trifolium pratense, Medium)	5.00%	40.0
Seed Mix Total Weight (in bulk pounds)		800.0

Species/Variety Table for "Cover Crop Seed Mixture 8"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Red Clover, Medium (trifolium pratense, Medium)	32.00%	160.0
White Clover, Ladino (trifolium repens, Ladino)	24.00%	120.0
White Clover, White Dutch (trifolium repens)	23.00%	115.0
Alsike Clover (Trifolium hybridum)	21.00%	105.0
Seed Mix Total Weight (in bulk pounds)		500.0

Species/Variety Table for "Cover Crop Seed Mixture 9"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Crimson Clover (Trifolium incarnatum)	80.00%	320.0
Forage Rape (Brassica napus)	10.00%	40.0
Turnip, Purple Top (Brassica rapa)	10.00%	40.0
Seed Mix Total Weight (in bulk pounds)		400.0

Species/Variety Table for "Cover Crop Seed Mixture 10"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Red Clover, Medium (trifolium pratense, Medium)	63.64%	350.0
White Clover, White Dutch (trifolium repens)	13.64%	75.0
White Clover, Ladino (trifolium repens, Ladino)	13.64%	75.0
Blue Chicory (Cichorium intybus)	9.09%	50.0
Seed Mix Total Weight (in bulk pounds)		550.0

3. Seed mixtures to be shipped to Southcentral Region

A. Habitat Seed Mixture 12

Species/Variety Table for "Habitat Seed Mixture 12"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Little bluestem (Schizachyrium scoparium) PA Ecotype	35.00%	35.0
Sideoats Grama (Bouteloua curtipendula)	30.00%	30.0
Indiangrass (Sorghastrum nutans) PA Ecotype	10.00%	10.0
Purple Coneflower (Echinacea purpurea)	10.00%	10.0
Blanketflower (Gaillardia aristata)	5.00%	5.0
Deertongue, 'Tioga' (Panicum clandestinum)	5.00%	5.0
Black-eyed Susan (Rudbeckia hirta) PA Ecotype	3.00%	3.0
Wild bergamot (Monarda fistulosa) PA Ecotype	2.00%	2.0
Seed Mix Total Weight (in bulk pounds)		100.0

B. Cover Crop Seed Mixtures 11-12

Species/Variety Table for "Cover Crop Seed Mixture 11"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
White Clover, Ladino (trifolium repens, Ladino)	29.17%	70.0
Red Clover, Medium (trifolium pratense, Medium)	29.17%	70.0
Blue Chicory (Cichorium intybus)	20.83%	50.0
Arrowleaf Clover (Trifolium vesiculosum)	8.33%	20.0
Bird's Foot Trefoil (Lotus coniculatus)	8.33%	20.0
Crimson Clover (Trifolium incarnatum)	4.17%	10.0
Seed Mix Total Weight (in bulk pounds)		240.0

Species/Variety Table for "Cover Crop Seed Mixture 12"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Oats (Avena sativa)	100.00%	500.0
Seed Mix Total Weight (in bulk pounds)		500.0

4. Seed mixtures to be shipped to Northeast Region (Habitat Seed Mixture 13):

Species/Variety Table for "Habitat Seed Mixture 13"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Little Bluestem, Fort Indiantown Gap-PA Ecotype	30.00%	75.0
Virginia Wildrye, Madison-NY Ecotype	19.00%	47.5
Indiangrass, PA Ecotype	12.30%	30.8
Purple Coneflower	7.50%	18.8
Deertongue, Tioga	5.00%	12.5
Partridge Pea, PA Ecotype	3.00%	7.5
Lanceleaf Coreopsis	3.00%	7.5
Tall White Beardtongue, PA Ecotype	3.00%	7.5
Blackeyed Susan	3.00%	7.5
Blue Vervain, PA Ecotype	2.50%	6.3
Oxeye Sunflower, PA Ecotype	1.50%	3.8
Roundhead Lespedeza, RI Ecotype	1.30%	3.3
Golden Alexanders, PA Ecotype	1.30%	3.3
Wild Senna, VA & WV Ecotype	1.00%	2.5
Swamp Milkweed, PA Ecotype	0.70%	1.8
Butterfly Milkweed	0.70%	1.8
Heath Aster, PA Ecotype	0.60%	1.5
Blue False Indigo, Southern WV Ecotype	0.50%	1.3
Boneset, PA Ecotype	0.50%	1.3
Biennial Beeblossom, PA Ecotype	0.50%	1.3
Narrowleaf Mountainmint	0.50%	1.3
Browneyed Susan, WV Ecotype	0.50%	1.3
Calico Aster	0.40%	1.0
Early Goldenrod, PA Ecotype	0.40%	1.0
Common Milkweed, PA Ecotype	0.30%	0.8
Flat Topped White Aster, PA Ecotype	0.30%	0.8
Wild Bergamot, Fort Indiantown Gap-PA Ecotype	0.30%	0.8
Great Blue Lobelia, PA Ecotype	0.10%	0.3
Square Stemmed Monkeyflower, PA Ecotype	0.10%	0.3
Hoary Mountainmint	0.10%	0.3
White Goldenrod, PA Ecotype	0.10%	0.3
Seed Mix Total Weight (in bulk pounds)		250.0

5. Seed mixtures to be shipped to Southeast Region (Habitat Seed Mixture 14):

Species/Variety Table for "Habitat Seed Mixture 14"		
SPECIES/VARIETY	SEED MIX%	POUNDS (LBS)
Bottlebrush Grass (<i>Elymus hystrix</i>) PA Ecotype	32.99%	395.9
Partridge pea (<i>Chamaecrista fasciculata</i>) PA Ecotype	25.28%	303.4
Virginia Wildrye (<i>Elmus virginicus</i>) PA Ecotype	11.28%	135.3
Sideoats Grama (<i>Bouteloua curtipendula</i>)	10.39%	124.7
Little bluestem (<i>Schizachyrium scoparium</i>) PA Ecotype	10.27%	123.2
Deertongue, 'Tioga' (<i>Panicum clandestinum</i>)	2.95%	35.4
Purpletop (<i>Tridens flavus</i>) PA Ecotype	1.77%	21.2
Junegrass (<i>Koeleria macrantha</i>)	1.05%	12.6
Lanceleaf coreopsis (<i>Coreopsis lanceolata</i>)	0.76%	9.1
Butterfly milkweed (<i>Asclepias tuberosa</i>) PA Ecotype	0.72%	8.6
Nodding Onion (<i>Allium cernuum</i>) PA Ecotype	0.67%	8.1
Golden Alexanders (<i>Zizia aurea</i>)	0.50%	6.1
Ohio spiderwort (<i>Tradescantia ohiensis</i>) PA Ecotype	0.25%	3.0
Wild bergamot (<i>Monarda fistulosa</i>) PA Ecotype	0.25%	3.0
Hoary mountain mint (<i>Pycnanthemum incanum</i>)	0.21%	2.5
Anise Hyssop (<i>Agastache foeniculum</i>)	0.21%	2.5
Black-eyed Susan (<i>Rudbeckia hirta</i>) PA Ecotype	0.13%	1.5
Narrowleaf mountain mint (<i>Pycnanthemum tenuifolium</i>)	0.13%	1.5
Aromatic aster (<i>Aster oblongifolius</i>) PA Ecotype	0.13%	1.5
Hairy Beardtongue (<i>Penstemon hirsutus</i>)	0.06%	0.8
Seed Mix Total Weight (in bulk pounds)		1200.0