

## Appendix 1

### Results Of Dungeness Elk Forage Survey

This is a condensed version of the results, showing the species for 11 different sites and their availability at each site. In this notebook, the information is sorted alphabetically by species' scientific name. For the raw data and a map of the sites, see ONF native plant website <http://fsweb/onpmp/index.html>.

**Caveat**—not all the species on this list are of high or even moderate value as elk forage (Aluzas, personal communication, 2007). This appendix is included only to show an example of a process. To decide which species to actually collect for your particular project, refer to studies relevant to the Puget Sound area, consider which plants are selected by elk, and consider the other factors discussed in the section titled Food for Thought in the chapter on Wildlife Forage.

Key to the Abundance Ranking in this table:

1 = Abundant along a high percentage of or within 200 feet of ¼-mile-long survey sites along the side of the road.

2 = Common along a high percentage of or within 200 feet of ¼-mile-long survey sites along the side of the road.

3 = Frequent, but absent from many stretches of road

4 = Occasional, but not hard to find.

5 = Rare, but found more than 10 plants in more than 2 sites.

6 = Found , but not more than 10 plants in more than 2 sites.

NO = None of this species found in the study area.

Additional Information about each site:

x = either among the better species to collect at this site or among the better sites to collect this species

p = present, but not necessarily in great enough numbers to fit collection criteria, *or* ubiquitous throughout the study area.

Species name	Common name	Abundance rank	Propagation method	Site number:	1	3	4	5	6	10	11	12	13	14	15
<i>Acer circinatum</i>	Vine maple	NO	seed			x			p					p	
<i>Acer macrophyllum</i>	Bigleaf maple	3	Seed			p		p	p						x
<i>Alnus rubra</i>	Red alder	1	Seed					p							x
<i>Anaphalis margaritacea</i>	Pearly everlasting	2	Seed					p	x						
<i>Asarum caudatum</i>	Wild ginger	5	Seed										x		
<i>Athyrium filix-femina</i>	Lady fern	3	Rhizomes, spores				x	p							
<i>Berberis nervosa</i>	Oregon grape	3	Cuttings or seeds				x	x	p					x	
<i>Blechnum spicant</i>	Deer fern	4	Rhizomes, spores			p	p	x			p		x	x	
<i>Bromus carinatus</i>	California brome	6	seed					x					x		
<i>Clintonia uniflora</i>	Queen's cup	5	Seed, rhizome division.		p		p	p	x		p				
<i>Cornus stolonifera</i>	Red-osier dogwood	NO	cuttings					p							
<i>Cornus unalaschkensis</i>	Bunchberry dogwood	3	Seed			x		p		x		p			
<i>Corylus cornuta</i>	Filbert	NO	Cuttings												
<i>Danthonia californica</i>	Poverty oatgrass	NO	seed					x							
<i>Danthonia spicata</i>	Poverty oatgrass	NO	seed											x	
<i>Deschampsia caespitosa</i>	Tufted hairgrass	NO	seed						p				x	x	
<i>Dicentra formosa</i>	Bleeding heart	5	Seed, division.					p						p	
<i>Dryopteris austriaca</i>	Spreading wood fern	3 - 4	Spores, division.				x							p	
<i>Elymus glaucus</i>	Blue wildrye	1* - cultivars planted along roads	seed												
<i>Epilobium angustifolium</i>	Fireweed	2 - 3	Seed											x	
<i>Equisetum sp.</i>	Horsetail	2 - 3	Spores, division.			p				x					x
<i>Equisetum telmateia.</i>		3 - 4						p			x	x	x		

Species name	Common name	Abundance rank	Propagation method	Site number:	1	3	4	5	6	10	11	12	13	14	15
<i>Festuca rubra</i>	Red fescue	NO (didn't take much time to I.D. fescues to species)	seed												
<i>Galium triflorum</i>	Sweetscented bedstraw	1 - 2	Seed, division.			p	p	p			p		x	p	
<i>Gaultheria shallon</i>	Salal	1 - 2	Cuttings or seed				p		p						
<i>Geum macrophyllum</i>	Large-leaved Avens	3	Seed				p					p			
<i>Gymnocarpium dryopteris</i>	Oak fern	3	Spores, division.				x								
<i>Heracleum lanatum</i>	Cow parsnip	4 - 5	seed				p	x	p			x			
<i>Holodiscus discolor</i>	Oceanspray	3 - 4	Seed				x							p	
<i>Linnaea borealis</i>	Twinsflower	1	Rhizome				p	p							
<i>Lonicera ciliosa</i>	Orange honeysuckle	4 - 5	Seed												
<i>Luzula parviflora</i>	Small flowered woodrush	4 - 5 (some may have been L. glabrata - Smooth Wood-rush)	Seed												
<i>Lysichitum americanum</i>	Skunk cabbage	4	Seed, rhizome division.												
<i>Maianthemum dilatatum</i>	False lily of the valley	4	Rhizome					x		x		x	x		
<i>Menziesia ferruginea</i>	Fool's huckleberry	5	Seed, cuttings, division				p		p		p				
<i>Montia siberica</i>	Candyflower	3 - 4	seed												
<i>Oemleria cerasiformis</i>	Osoberry, Indian plum	6	Cuttings or seed.				p								
<i>Oplopanax horridum</i>	Devil's club	2 - 3	Seed, cutting, layering				x								
<i>Oxalis oregana</i>	Oregon oxalis	NO	rhizomes			p	p	x						p	

Species name	Common name	Abundance rank	Propagation method	Site number:	1	3	4	5	6	10	11	12	13	14	15
<i>Petasites frigidus</i>	Colt's foot	2	Seed						p						
<i>Picea sitchensis</i>	Sitka Spruce	6					x	p							
<i>Polystichum munitum</i>	Swordfern	2	Rhizomes, sports												
<i>Populus trichocarpa</i>	Black cottonwood	3 - 4	Cuttings or seed.												
<i>Prunus emarginata</i>	Bitter cherry	4	Cuttings or seed.				p	p						p	
<i>Pseudotsuga menziesii</i>	Douglas-fir	1													
<i>Pteridium aquilinum</i>	Bracken fern	1	Rhizomes				p		x	p	x	p			
<i>Rhamnus purshiana</i>	Cascara	NO	Seed, cuttings												
<i>Rosa gymnocarpa</i>	Baldhip rose	4	Cuttings				x								
<i>Rubus parviflorus</i>	Thimbleberry	2	Seed				p	x		p	p			x	
<i>Rubus spectabilis</i>	Salmonberry	2	Seed or cuttings.										p	x	
<i>Salix lucida ssp. lasiandra</i>	Pacific Willow	4 - 5													
<i>Salix scouleriana</i>	Scouler's Willow							p		x	x	x	x		
<i>Salix sitchensis</i>	Sitka Willow							x		p	x				
<i>Salix sp.</i>	Willow	1	Live stakes or cuttings.		p	x	p							x	
<i>Sambucus racemosa</i>	Red elder	3 - 4	Cuttings												x
<i>Smilacina racemosa</i>		4 - 5		x				p		p					
<i>Smilacina sp.</i>	Solomon plume	4 - 5	Rhizome		p			p	p	p	p				
<i>Smilacina stellata</i>	Starry False-solomon's-seal	4 - 5					x								
<i>Sorbus sitchensis</i>	Mountain ash	6	Seed												
<i>Stellaria calycantha</i>	Northern Starwort	2		p				x	p	p	x	p			
<i>Stellaria crispa</i>	Crisped Starwort	4				x	p		p		p	p			

Species name	Common name	Abundance rank	Propagation method	Site number:	1	3	4	5	6	10	11	12	13	14	15
<i>Stellaria</i> sp.	Starwort	2	Seed				x	p			p	x	x	x	
<i>Stipa lemmonii</i>	Lemmon's needlegrass	NO	Seed												
<i>Stipa nelsonii</i>	Nelson's needlegrass	NO	seed												
<i>Symphoricarpos albus</i>	Common snowberry	6	Seed or cuttings.			x				x					
<i>Tiarella trifoliata</i>	Foamflower	1	Clump division, seed.							x	p	x	x	p	
<i>Tolmiea menziesii</i>	Youth-on-age	4	Rhizomes, seeds		p		p	p	p	p	p		x		
<i>Trillium ovatum</i>	Trillium	4 - but usually pretty sparse	Seed				x		x			p			
<i>Tsuga heterophylla</i>	Western Hemlock	2													
<i>Vaccinium ovatifolium</i>	Oval-leafed Huckleberry	5													
<i>Vaccinium parvifolium</i>	Red Huckleberry	4						p		p	p	x			
<i>Vaccinium</i> sp.	Huckleberries	4	Seed			x	x								



## Appendix 2

### ONF Elk Forage Inventory Contract



In 2006, the ONF hired a contractor to conduct a survey in the Dungeness and Gray Wolf River drainages to scope out potential collection sites native species suitable for propagation as elk forage. After interviewing several potential contractors, Olympic National Forest Wildlife Program Manager Susan Piper chose an individual who had extensive experience in botanical surveys and seed collection. We provided the following information to the contractor:

- Instructions for the contractor (document follows);
- A list of elk forage species for the survey (document follows);
- A seed source survey form to record information on the sites, species, and phenology (available on the ONF Native Plants website: <http://fsweb/onpmp/index.html>);
- An information sheet that includes collection guidelines to maintain genetic diversity and codes to use on the seed source survey form (available on the ONF Native Plants website: <http://fsweb/onpmp/index.html>).

Since the contract work cost less than \$2,500, we were able to pay the contractor by check. With this simple contract we gained enough information to plan for seed collection in the summer of 2007.

The results of this survey can be found in Appendix 1.

## Dungeness Elk Forage Inventory

**Seed Collection Sites Location and Mapping** Identify potential seed collect sites for elk forage species listed on the 2 attached tables. Collection sites may be remote requiring significant driving and/or hiking. Sites may also be along traveled highway corridors. Inventory and mapping involve locating, identifying, evaluating, and recording potential collection sites, species, and phenology. Information on each collection site will be recorded on the *Seed source survey and collection form* (attached).

Ideal seed collection sites will meet the following criteria:

**General:**

For each population in a seed lot, collect from at least 30 to 50 parent plants in good condition. Try to collect from as many separate populations as is feasible. Strive to collect a similar amount of seed from each population harvested. Separate populations by at least ¼ mile, this distance should ensure that no pollen or seed exchange occur between the populations. Try to collect an equal number of seeds/cuttings from each source plant. These tactics will ensure that a representative sample of genetic variation is collected.

Select only vigorous, healthy parent plants. Avoid plants with signs of insects and disease. Collect seed when it is mature (take from the plant, not the ground). Be especially alert for black fungus diseases such as ergot in grass seed heads. Do not pick seed heads that are touching the ground.

**Specific:**

For each species for which there is a sufficient number of plants to make seed collection feasible:

- Number of sites: 8-10
- Distance between sites: 0.25 mile minimum, 1 mile optimum
- Number of plants per seed collection zone: 30 minimum, 50 optimum
- Number of healthy plants per site: 10 minimum
- Distance between plants in one site: 5-10 feet

**Locations**

Pat's Prairie Botanical Area  
Cranberry Bog Botanical Area  
Along Forest Service roads in project area (see map)

**Timeline** Project must be completed (submission of field forms) by September 1, 2006.

**Contact Information:**

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## Native Elk Forage Species

Code	Species name	Common Name	Propagation
ACCI	<i>Acer circinatum</i>	Vine maple	seed
ACMA3	<i>Acer macrophyllum</i>	Bigleaf maple	Seed
ALRU2	<i>Alnus rubra</i>	Red alder	Seed
ANAPH	<i>Anaphalis margaritacea</i>	Pearly everlasting	Seed
ASCA2	<i>Asarum caudatum</i>	Wild ginger	Seed
ATFI	<i>Athyrium filix-femina</i>	Lady fern	Rhizomes, spores
BENE2	<i>Berberis nervosa</i>	Oregon grape	Cuttings or seeds
BLSP	<i>Blechnum spicant</i>	Deer fern	Rhizomes, spores
BRCA5	<i>Bromus carinatus</i>	California brome	seed
CLUN2	<i>Clintonia uniflora</i>	Queen's cup	Seed, rhizome division.
COST4	<i>Cornus stolonifera</i>	Red-osier dogwood	cuttings
COUN	<i>Cornus unalaschensis</i>	Bunchberry dogwood	Seed
COCO6	<i>Corylus cornuta</i>	Filbert	Cuttings
DACA3	<i>Danthonia californica</i>	Poverty oatgrass	seed
DASP2	<i>Danthonia spicata</i>	Poverty oatgrass	seed
DECA18	<i>Deschampsia caespitosa</i>	Tufted hairgrass	seed
DIFO	<i>Dicentra formasa</i>	Bleeding heart	Seed, division.
DRAUS2	<i>Dryopteris austriaca</i>	Spreading wood fern	Spores, division.
ELGL	<i>Elymus glaucus</i>	Blue wildrye	seed
EPAN2	<i>Epilobium angustifolium</i>	Fireweed	seed
EPAN2	<i>Epilobium angustifolium</i>	Fireweed	Seed
EQUIS	<i>Equisetum sp.</i>	Horsetail	Spores, division.
FERUA3	<i>Festuca rubra</i>	Red fescue	seed
GATR3	<i>Galium triflorum</i>	Sweetscented bedstraw	Seed, division.
GASH	<i>Gaultheria shallon</i>	Salal	Cuttings or seed
GEMA4	<i>Geum macrophyllum</i>	Large-leaved Avens	Seed
GYDR	<i>Gymnocarpium dryopteris</i>	Oak fern	Spores, division.
HERAC	<i>Heracleum lanatum</i>	Cow parsnip	seed
HODI	<i>Holodiscus discolor</i>	Oceanspray	Seed
LIBO3	<i>Linnaea borealis</i>	Twinflower	Rhizome
LOCI3	<i>Lonicera ciliosa</i>	Orange honeysuckle	Seed
LUPA4	<i>Luzula parviflora</i>	Small flowered woodrush	Seed
LYAM3	<i>Lysichitum americanum</i>	Skunk cabbage	Seed, rhizome division.
MADI	<i>Maianthemum dilatatum</i>	False lily of the valley	Rhizome
MEFE	<i>Menziesia ferruginea</i>	Fool's huckleberry	See, cuttings, division
MOSI2	<i>Montia siberica</i>	Candyflower	seed
OECE	<i>Oemleria cerasiformis</i>	Osoberry, Indian plum	Cuttings or seed.
OPHO	<i>Oplopanax horridum</i>	Devil's club	Seed, cutting, layering
OXORS	<i>Oxalis oregana</i>	Oregon oxalis	rhizomes
PEFR5	<i>Petasites frigidus</i>	Colt's foot	Seed
POMU	<i>Polystichum munitum</i>	Swordfern	Rhizomes, sports
POTR15	<i>Populus trichocarpa</i>	Black cottonwood	Cuttings or seed.
PREM	<i>Prunus emarginata</i>	Bitter cherry	Cuttings or seed.

<b>Code</b>	<b>Species name</b>	<b>Common Name</b>	<b>Propagation</b>
<i>PTAQ</i>	<i>Pteridium aquilinum</i>	Bracken fern	Rhizomes
<i>RHPU</i>	<i>Rhamnus purshiana</i>	Cascara	Seed, cuttings
<i>ROGY</i>	<i>Rosa gymnocarpa</i>	Baldhip rose	Cuttings
<i>RUPA</i>	<i>Rubus parviflorus</i>	Thimbleberry	Seed
<i>RUSP</i>	<i>Rubus spectabilis</i>	Salmonberry	Seed or cuttings.
<i>SALIX</i>	<i>Salix sp.</i>	Willow	Live stakes or cuttings.
<i>SARA2</i>	<i>Sambucus racemosa</i>	Red elder	Cuttings
<i>SM_ _</i>	<i>Smilacina sp.</i>	Solomon plume	Rhizome
<i>SOSI2</i>	<i>Sorbus sitchensis</i>	Mountain ash	Seed
<i>STELL</i>	<i>Stellaria sp.</i>	Starwort	Seed
<i>STLE2</i>	<i>Stipa lemmonii</i>	Lemmon's needlegrass	Seed
<i>STNE3</i>	<i>Stipa nelsonii</i>	Nelson's needlegrass	seed
<i>SYAL</i>	<i>Symphoricarpos albus</i>	Common snowberry	Seed or cuttings.
<i>TITR</i>	<i>Tiarella trifoliata</i>	Foamflower	Clump division, seed.
<i>TOME</i>	<i>Tolmiea menziesii</i>	Youth-on-age	Rhizomes, seeds
<i>TRILL</i>	<i>Trillium ovatum</i>	Trillium	Seed
<i>VACCI</i>	<i>Vaccinium sp.</i>	Huckleberries	Seed.

## Appendix 3

### Region 6 Restoration Contracts



There are basically two categories of contracts for use in restoration projects. The contract language and the contractors have been pre-approved in R6. These contracts and contractors are required by USFS and BLM units in the Blue Mountains area; they are optional (but recommended) in the rest of Region 6.

There is a lot of documentation and the sheer number of pages and filenames can seem overwhelming at first. To keep it all straight, the whole set of documents has been summarized in a structured, organized fashion here.

The first page is just the file name of the document so you can easily find it on the ONF Native Plant website (<http://fsweb/onpmp/index.html>), followed by a brief summary explaining the purpose of the form. This is followed by the first page (or some selected pages) so you can begin to become familiar with it.

All the examples are from the Umatilla National Forest unless stated otherwise. Karen Prudhomme ([kprudhomme@fs.fed.us](mailto:kprudhomme@fs.fed.us)) worked on putting all these contracts together and is a good source of information if you have questions. She also put together a comprehensive document called “**Questions.and.Answers.doc**” to help us understand all the aspects of seed increase contracting. It’s too large to include here but you can find it on the ONF Native Plant website.

The two general types of contracts are:

- **Seed Increase Contract and Straw Production.** Native seed increase will be a coordinated effort at the forest level. To accomplish this work, a task order needs to be filled out.
- **Restoration Services Contract.** This includes all other tasks except for seed increase (for example, surveys to find potential collection sites, collection of seed or other plant materials, growing of cuttings, out-planting).

## Contract Category: Seed Increase Contract and Straw Production

**File Name:** Native.Grass.Production.Contract.doc

**Purpose:** This Standard Form 1449, which you would need to do a seed increase contract. This is what be telling the grower to produce for you after you have supplied clean, tested seed. Only the first page of a 42-page document is included here.

<b>SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS</b> <i>Offeror to complete blocks 12, 17, 23, 24, &amp; 30</i>				1. REQUISITION NUMBER	PAGE 1 OF
2. CONTRACT NO.	3. AWARD/EFFECTIVE DATE	4. ORDER NUMBER	5. SOLICITATION NUMBER <b>R6-14-06-35019</b>		6. SOLICITATION ISSUE DATE <b>March 7, 2006</b>
7. FOR SOLICITATION INFORMATION CALL	a. NAME <b>Peggy Patten</b>		b. TELEPHONE (No Collect Calls) <b>541-278-3844</b>		8. OFFER DUE DATE/ LOCAL TIME 4:30 PM <b>April 7, 2006</b>
9. ISSUED BY (MAIL OFFERS TO) CODE			10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET-ASIDE. ___% FOR <input type="checkbox"/> SMALL BUSINESS, <input type="checkbox"/> HUBZONE SMALL BUSINESS <input type="checkbox"/> 8(A) <input type="checkbox"/> SOLE SOURCE NAICS: <b>111998</b> SIZE STANDARD: <b>0.75 MIL</b>		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED. <input type="checkbox"/> SEE SCHEDULE <input type="checkbox"/> 13a. THIS CONTRACT IS A RATED ORDER <b>UNDER DPAS (15 CFR 700)</b> 13b. RATING 14. METHOD OF SOLICITATION <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP
15. DELIVER TO: CODE			16. ADMINISTERED BY CODE		
As Specified on Task Order(s)			As Specified on Task Order(s)		
17a. CONTRACTOR/OFFEROR CAGE	FACILITY CODE	18a. PAYMENT WILL BE MADE BY CODE			
TELEPHONE: TIN:		<b>18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK IS CHECKED: <input type="checkbox"/> SEE ADDENDA</b>			
<input type="checkbox"/> 17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER					
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES			21. QUANTITY	22. UNIT
	Produce quantities of native grass and forb seed and straw from Government-furnished, purity and germination-tested seed for the Umatilla National Forest in accordance with the attached specifications.  Note: Use of this contract is optional by Forest Service and Bureau of Land Management units located in the States of Oregon, Washington and Idaho. No award will be made to a Contractor not registered in CCR or who has not completed ORCA. See FAR Clauses 52.212-3 AND 52.212-4.  (Use Reverse and/or Attach Additional Sheets as Necessary)			SEE NEXT PAGE FOR ESTIMATED QUANTITY	
25. ACCOUNTING AND APPROPRIATION DATA					23. UNIT PRICE
					24. AMOUNT
					26. TOTAL AWARD AMOUNT (For Govt. Use Only)
<input checked="" type="checkbox"/> 27a. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 AND ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.					
<input checked="" type="checkbox"/> 27b. CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 AND ADDENDA <input checked="" type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.					
28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ORIGINAL TO ISSUING OFFICE. <input checked="" type="checkbox"/> CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.			29. AWARD OF CONTRACT: YOUR OFFER ON SOLICITATION (BLOCK 5), DATED (BLOCK 30e) INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: <input type="checkbox"/>		
30a. SIGNATURE OF OFFEROR/CONTRACTOR			31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)		
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)		30c. DATE SIGNED	31b. NAME OF CONTRACTING OFFICER		31c. DATE SIGNED

AUTHORIZED FOR LOCAL REPRODUCTION

**STANDARD FORM 1449** (Rev. 4/2002)

## Contract Category: Seed Increase Contract and Straw Production

**File Name:** Amendment.Number.One.doc

**Purpose:** This Standard Form 30, which you would need to make an amendment to your seed increase contract. *The amendment is created if you want to make any changes to the text of your contract before it is actually awarded.* It is sent to the potential bidders, kind of like a formal errata sheet. The 1-page amendment is shown on the next page.

<b>AMENDMENT OF SOLICITATION/<del>MODIFICATION OF CONTRACT</del></b>			1. CONTRACT ID CODE	PAGE OF PAGES <b>1</b> <b>1</b>
2. AMENDMENT/ <del>MODIFICATION</del> NO. <b>1</b>	3. EFFECTIVE DATE <b>May 12, 2006</b>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY <b>Umatilla National Forest 2517 SW Hailey Avenue Pendleton, OR 97801</b>	CODE	7. ADMINISTERED BY (If other than Item 6) <b>Same as Block 6</b>	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP Code) <b>ALL OFFERORS</b>			<input checked="" type="checkbox"/> 9A. AMENDMENT OF SOLICITATION NO. <b>R6-14-06-35019</b>	<input checked="" type="checkbox"/> 9B. DATED (SEE ITEM 11) <b>03-07-2006</b>
CODE			<input type="checkbox"/> 10A. MODIFICATION OF CONTRACT/ORDER NO.	<input type="checkbox"/> 10B. DATED (SEE ITEM 13)
FACILITY CODE				

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;

Or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

<input checked="" type="checkbox"/>	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <b>FAR 52.242-17 Government Delay of Work</b>
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

**PRODUCE QUANTITIES OF NATIVE GRASS AND FORB SEED AND STRAW FOR THE UMATILLA NATIONAL FOREST**

**UNDER clause number 8 entitled ACCEPTABLE QUALITY LEVELS (AQL), paragraph (b) (1), delete the first two sentences and replace with the following: "(1) The Government retains the right of first refusal for any additional amount of seed or straw produced. Price will remain the same as offered for additional amounts within 25% of the original quantity ordered. A price reduction will be negotiated for any additional quantities that exceed the 25%."**

**The hour and date for receipt of offers is extended to May 24, 2006.**

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

PEGGY PATTEN, Contracting Officer

15B. CONTRACTOR/OFFEROR  <i>(Signature of person authorized to sign)</i>	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  <i>(Signature of Contracting Officer)</i>	16C. DATE SIGNED
--	------------------	--	------------------

NSN 7540-01-152-8070  
Previous edition unusable

30-105

**STANDARD FORM 30** (REV. 10-83)  
Prescribed by GSA  
FAR (48 CFR) 53.243



## Contract Category: Seed Increase Contract and Straw Production

**File Name:** Mod\_Amd.doc

**Purpose:** This is Standard Form 30 again, which you would need to make a modification to your seed increase contract. *A modification is created if you want to make any changes to the text of your contract after it is actually awarded.* The modification itself (page 1) and its' required attachment (page 2) have been included here.

Olympic National Forest Native Plant Notebook

Rev. March 2007

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		CONTRACT ID CODE	PAGE OF PAGES 1 2
2 AMENDMENT/MODIFICATION NO. 1	3. EFFECTIVE DATE 6/19/06	4. REQUISITION/PUCHASE REQ. NO.	5. PROJECT NO. (IF APPLICABLE)
6. ISSUE BY CODE  Umatilla National Forest 2517 SW Hailey Avenue Pendleton, OR 97801		7. ADMINISTERED BY (if other than item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) * * *		9A. Amend Solicitation. 9B. Dated 10A. Mod Contract/Order #AG-04R3-C-06-002? 10B. Dated (see Item 13) 6/15/06	
code	facility code		
11. THIS ITEM APPLIES ONLY TO AMENDMENT OF SOLICITATION			
[ ] The above numbered solicitation is amended as set forth in the item 14. The hour and date specified for receipt of Offers [ ] is extended [ ] is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15 and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted, or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
12. Accounting and Appropriation Data (if required)			
13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.			
X	A. This change order is issued pursuant to; (specify authority) The changes set forth in item 14 are made in the Contract/Order # in item 10A.		
	B. The above numbered Contract/Order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) set forth in item 14, pursuant to the authority of FAR 43.103(b)..		
	C. This supplemental agreement is entered into pursuant to authority of:		
	D Other: (Specify type of modification and authority):		
	E. IMPORTANT: Contractor [ ] is not [ ] is required to sign this document and return __ Original to the issuing office.:		
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible)			
<b><u>Native Grass, Forb and Straw Production</u></b>			
SEED CROP AND STRAW QUALITY STANDARDS - 4.(b) <b>Delete:</b> Fields of the individual seed lots shall be isolated from contaminating sources which may potentially cross-pollinate with species being grown under this contract. Isolation distances shall be in accordance with State Certification Standards (certified class), unless otherwise approved by the COR. <b>Change to:</b> Fields of individual seed lots shall be isolated by a minimum of 165 feet from contaminating sources which may potentially cross-pollinate with species being grown under this contract. If a species is known to be predominately self-pollinating, then a mechanical separation is allowed (See Attachment for list of self-pollinating species). Growers may choose to use a larger isolation distance in order to meet State Certification Standards, or a COR may specify the isolation distance on individual task orders. By signature in Block 15B Contractor releases the Government from all claims relating to this modification. This settlement is complete accord and satisfaction. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.			
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER  Contracting Officer	
15B. CONTRACTOR/OFFEROR  By _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  By _____ (Signature of Contracting Officer)	16C. DATE SIGNED

Standard Form 30 Prescribed by GSA

FAR (48CFR) 53.243

**ATTACHMENT TO MODIFICATION OF CONTRACT**  
(Prepare and submit with SF30)

**CONTRACT NO.** AG-04R3-C-06-002? **MODIFICATION NO.** 1

**CONTRACT OR PROJECT NAME** Native Grass, Forb, and Straw Production

**CONTRACTOR**  
\_\_\_\_\_

**Minimum Isolation Distance:** Species listed in the following table are predominantly self-pollinating. The distance between fields of any other germplasm (seed lot) of the same species must be adequate to prevent mechanical mixture (e.g., 25 feet), unless otherwise specified on the Task Order. For all other species, a minimum isolation distance of 165 feet is required, unless otherwise specified on the Task Order

SPECIES CODE	SPECIES	COMMON NAME	FAMILY	MATING SYSTEM	MINIMUM ISOLATION DISTANCE
BRCA5	<i>Bromus caninatus</i>	California/mountain brome	Gramineae	Selfing	Mechanical
BRMA4	<i>Bromus marginatus</i>	mountain brome	Gramineae	Selfing	Mechanical
DASP2	<i>Danthonia spicata</i>	poverty danthonia	Gramineae	Selfing	Mechanical
ELEL5/SIHY	<i>Elymus elymoides</i>	squirreltail	Gramineae	Selfing	Mechanical
ELGL	<i>Elymus glaucus</i>	blue wildrye	Gramineae	Selfing	Mechanical
POSE	<i>Poa secunda</i>	Sandberg's/pine bluegrass	Gramineae	Selfing and apomixis	Mechanical

<b>NET CHANGES THIS MODIFICATION</b>				\$
<b>CONTRACT AMOUNT PRIOR TO THIS MODIFICATION</b>				\$
<b>NEW CONTRACT TOTAL</b>				\$
<b>CONTRACT TIME</b>	<b>DAYS INCREASED</b>	<b>DAYS DECREASED</b>	<b>REVISED CONTRACT TIME</b>	
<p><b>I hereby accept this modification as to work to be performed, prices to be paid, and contract time as shown above. Effective only upon approval by the Contracting Officer.</b></p>				
<b>CONTRACTOR OR REPRESENTATIVE (signature)</b>		<b>TITLE</b>	<b>DATE</b>	
<b>SUBMITTED</b>	<b>SIGNATURE</b>	<b>TITLE - Contracting Officer's Representative</b>	<b>DATE</b>	
<b>RECOMMENDED</b>	<b>SIGNATURE</b>	<b>TITLE</b>	<b>DATE</b>	
<b>FUNDING APPROVAL</b>	<b>SIGNATURE</b>	<b>TITLE</b>	<b>DATE</b>	
	<b>FUNDS AVAILABLE?</b>	<b>MGT CODE</b>		
<b>APPROVED</b>	<b>SIGNATURE</b>	<b>TITLE</b> Contracting Officer	<b>DATE</b>	

## Contract Category: Seed Increase Contract and Straw Production

**File Name:** EXHIBITS.doc

**Purpose:** This document contains three exhibits.

Exhibit 1 is a table showing the results of seed tests for various native species. This is for your information and something you could give to your contractor for their information in seed increase contracts.

In this table, GERM means a germination test – this is where a sample of the seed lot is grown out for 21 days to see the % that actually germinate. TZ stands for tetrazolium – this is a 24 hour chemical test where a sample is treated to see how many are alive and how many seed are dead. An “X” in the column marked GERM means that a germination test is best for that species. An “X” in the column headed TZ means a tetrazolium test is best. Only the first page of Exhibit 1 is included in this notebook.

Exhibit 2 contains two tables. Table 1 shows standards to be expected for each species. Table 2 shows the source of the information used in Table 1. Again, this is information you provide to the seed increase contract grower. Only the first page of each table is included here.

Exhibit 3 are samples of various task orders for the product you expect to receive from the contractor who is doing seed increase. Only the first task order is included in this notebook.

## EXHIBIT 1—General Rules for OSU Seed Tests for native plant viability (source: Nita Rauch, Bend Seed Extractory, 2/3/06)

<i>Type</i>	<i>Species Symbol</i>	<i>Plant Name</i>	<i>Common Name</i>	<i>GERM</i>	<i>TZ</i>	<i>COMMENTS</i>
Grass	ACLE8	<i>Achnatherum lemmonii</i>	Lemmon's needlegrass		X	unpredictable germ rates.
Grass	ACLEL/STLE2	<i>Achnatherum lemmonii lemmonii</i>	Lemmon's needlegrass		X	unpredictable germ rates.
Forbe	ACMI2	<i>Achillea millifolium</i>	yarrow	X		light & 7 day prechill
Grass	ACOCO	<i>Achnatherum occidentale</i>	western needlegrass		X	unpredictable germ rates.
Grass	ACTH7	<i>Achnatherum thurberianum</i>	Thurber's needlegrass		X	needs cold & warm strat, germ variable.
Forbe	ALAC4	<i>Allium acuminatum</i>	tapertip onion		X	TZ works better. Variable germ rates.
Shrub	AMAL2	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry		X	berry; needs chemical scarification.
Forbe	ANMA	<i>Anaphalis margaritacea</i>	pearly everlasting	X		light & 7 day prechill
Forbe	ARHOR	<i>Arabis holboellii</i>	second rockcress		X	TZ works better. Variable germ rates.
Shrub	ARNE	<i>Arctostaphylos nevadensis</i>	pinemat manzanita		X	hard seedcoat, needs chem scarification.
Forbe	ARTRV	<i>Artemisia tridentata</i>	Mtn. big sage		X	TZ works better. Variable germ rates.
Forbe	BAMA4	<i>Balsamorhiza macrophylla</i>	cutleaf balsamroot		X	TZ works better. Variable germ rates.
Shrub	BENA	<i>Betula nana</i>	dwarf birch	X		21 day prechill
Grass	BRCA5	<i>Bromus caninatus</i>	California brome		X	deep dormancy situation.
Forbe	CAAN7	<i>Castilleja angustifolia</i>	NW Indian paintbrush		X	TZ works better. Variable germ rates.
Forbe	CABR2	<i>Calochortus bruneaunis</i>	Bruneau mariposa lily		X	TZ works better. Variable germ rates.
Grass-like	CAH05	<i>Carex hoodii</i>	Hood's sedge		X	TZ works better. Variable germ rates.
Grass	CARU	<i>Calamagrostis rubescens</i>	pinegrass		X	no info on germ requirements.
Shrub	CECO	<i>Ceanothus cordulatus</i>	whitethorn ceanothus		X	hard seedcoat, needs chem scarification.
Shrub	CEIN3	<i>Ceanothus integerrimus</i>	deerbrush	X		hot water soak required.
Shrub	CONU4	<i>Cornus nuttallii</i>	Pacific dogwood		X	berry; needs chemical scarification.
Shrub	COSES	<i>Cornus sericea</i>	redosier dogwood		X	berry; needs chemical scarification.
Forbe	CRCI2	<i>Cryptantha cirsumscissa</i>	cushion cryptantha		X	TZ works better. Variable germ rates.
Grass	DACA3	<i>Danthonia californica</i>	California oatgrass		X	berry; needs chemical scarification.
Grass	DECA18	<i>Deschampsia caespitosa</i>	tufted hairgrass	X		7 day prechill

**EXHIBIT 2—GUIDELINES FOR SEED STANDARDS**

These standards, although not required, are intended to serve as a guide for minimum standards for seed quality.

(Source: Oregon Seed Certification Service)

Table 1 Pre-variety Germplasm Seed Standards: Generations G1, G2, etc. (Revised November 18, 2005, subject to continuing change)

<b>Genus and Species</b>	<b>Common Name</b>	<i>Purity Sample wt (gms)</i>	<b>Pure Seed, (min%)</b>	<b>Other Crop, (max%)</b>	<b>Inert, (max%)</b>	<b>Common Weed Seed, (max %)</b>	<i>Noxious Sample wt.(gms)</i>	<b>Prohibited Weeds. Restricted Weed Seeds (singly or combined)<sup>1</sup></b>
<i>Achillea millefolium</i>	Yarrow	0.4	98.0	0.10	2.0	0.20	4.0	113/lb
<i>Agrostis exarata</i>	Spike bentgrass	0.25	96.0	0.25	4.0	0.25	2.5	181/lb
<i>Alopecurus geniculatus</i>	Water foxtail	0.8	96.0	0.10	4.0	0.20	8.0	57/lb
<i>Anaphalis margaritacea</i>	Pearly everlasting	0.25	85.0	0.10	15.0	0.20	2.5	181/lb
<i>Atriplex canescens</i>	Four-wing saltbush	19.0	85.0	0.50	15.0	0.50	190.0	2/lb
<i>Beckmannia syzigachne</i>	American sloughgrass	1.0	94.0	0.60	6.0	0.30	10.0	45/lb
<i>Bromus carinatus</i>	California brome	20.0	90.0	0.50	10.0	0.30	200.0	2/lb
<i>Bromus carinatus</i>	Mountain brome	20.0	90.0	0.50	10.0	0.30	200.0	2/lb
<i>Bromus marginatus</i>	Mountain brome	20.0	90.0	0.50	10.0	0.30	200.0	2/lb
<i>Bromus sitchensis</i>	Alaska brome	20.0	90.0	0.50	10.0	0.30	200.0	2/lb
<i>Bromus vulgaris</i>	Columbia brome	7.0	90.0	0.50	10.0	0.30	70.0	6/lb
<i>Calamagrostis rubescens</i>	Pinegrass	0.5	75.0	0.10	25.0	0.20	5.0	91/lb
<i>Collomia grandiflora</i>	Grand collomia	7.5	98.0	0.10	2.0	0.10	75.0	7/lb

<sup>1</sup> None of the Prohibited Weed Seeds listed in Section V in the OSCS Handbook, nor St Johnswort is allowed.

Restricted weed seed tolerances as indicated for each crop, allows one seed to be found in the Noxious weed seed exam working sample [ref. 1 lb = 453.6 grams], and applies to the following species: Corn bedstraw, Buckhorn plantain, Docks, Sheep sorrel. In no crop, may Corn Bedstraw exceed 45 per pound, as per Restricted Noxious Weed Seed Tolerances [OAR 603-056-0205].

Table 2. Source of Standard

Genus and Species	Common Name	Source of Standard
<i>Achillea millefolium</i>	Yarrow	Purity test results
<i>Agrostis exarata</i>	Spike bentgrass	Existing Astoria bentgrass standards, and seed test results
<i>Alopecurus geniculatus</i>	Water foxtail	Purity test results; working sample test weights are tentative (based on initial sample), therefore so is Restricted tolerance.
<i>Anaphalis margaritacea</i>	Pearly everlasting	Purity test results & Jim Barner
<i>Atriplex canescens</i>	Four-wing saltbush	AOSCA Woody Plant standards
<i>Beckmannia syzigachne</i>	American sloughgrass	Developed from seed test results
<i>Bromus carinatus</i>	California brome	Existing variety, same species
<i>Bromus sitchensis</i>	Alaska brome	Similar species
<i>Bromus vulgaris</i>	Columbia brome	Other Bromus standards
<i>Calamagrostis rubescens</i>	Pinegrass	Purity test results, comments from Wash. Dept. Ag Seed Lab and from Bend Pine Nursery.
<i>Collomia grandiflora</i>	Grand collomia	Purity test results; working sample test weights are tentative (based on initial sample), therefore so is Restricted tolerance.
<i>Danthonia californica</i>	California oatgrass	Rec. for G0 by Dale Darris, NRCS, Cor PMC; revised inert 3→6%, crop 0.1→0.15%, weed 0.25→0.15% (8/19/03); revised inert 6→10? based on history of cleaning effort/test results and concurrence from D.Darris and C.Edminster (9/8/05).
<i>Danthonia spicata</i>	Poverty oatgrass	Based on Fine fescue Fdn and Reg (similar seed size) and history of increasing inert standard for D. californica. Both species have cleistogamous seed in the sheaths.
<i>Deschampsia caespitosa</i>	Tufted hairgrass	Existing variety, same species
<i>Elymus elymoides</i>	Squirreltail	Pure (feds guide & clean db), test result
<i>Elymus glaucus</i>	Blue wildrye	Existing variety, same species
<i>Elymus trachycaulus</i>	Slender wheatgrass	Review of other OSCS standards and seed standards published for Minnesota, Montana, North Dakota, & Washington
<i>Epilobium densiflorum</i>	Dense-flowered boisduvalia	Based on standards for similar sized seed (KBG)
<i>Festuca idahoensis</i>	Idaho fescue	Existing Fine fescue standards, adj. for inert
<i>Festuca paradoxa</i>	Cluster fescue	Standards for Fine fescue and Idaho fescue and test results.
<i>Festuca roemerii</i>	Roemer's fescue	Existing Fine fescue standards for Foundation and Registered classes.
<i>Glyceria elata</i>	Tall mannagrass	Based on similar sized seed and results
<i>Gilia capitata</i>	Globe gilia	Purity test results; working sample test weights are tentative (based on initial sample), therefore so is Restricted tolerance.
<i>Hordeum brachyantherum</i>	Meadow barley	Based on limited cleaning experience.(96%, Based on similarity of size and shape to Blue WR & expectation that debearding will be done).
<i>Iris tenax</i>	Oregon iris	Purity test results; working sample test weights are tentative (based on initial sample), therefore so is Restricted tolerance.
<i>Lupinus polycarpus</i>	Small-flowered lupine	Based on test results and seed size.
<i>Lupinus rivularis</i>	Streambank lupine	Reg. Sickle-keeled & Wisconsin PVG per.lupine

**EXHIBIT 3—TASK ORDER EXAMPLES**

**TASK ORDER NO.** AG-04R3-D-06-0998

<b>Contract No.</b>		53-04R3-06-XX	<b>Project Name:</b>	Native Grass and Forb Production		<b>County:</b> Umatilla	
<b>Contractor:</b>			<b>Issuing and Billing Office:</b> Umatilla National Forest 2517 SW Hailey Avenue Pendleton, OR 97801				
<b>Item No.</b>	<b>Subitem No.</b>	<b>Description</b>	<b>Quantity to Date</b>	<b>Quantity Order</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
1	1A	Blue Wildrye ( <i>Elymus glaucas</i> ) FS Seed Lot# <b>ELGL-50-MEACHA-04</b> Meacham WS, 4500-5000' From 5 lbs of GF* seed (germ-85%, purity-95%, weeds-0.1%, inert-4.9%)		400	lbs	\$ _____	\$ _____
	1B	Mountain Brome ( <i>Bromus carinatus</i> ) FS Seed Lot# <b>BRCA5-14-901-02100-45-WALL-05</b> Wall WS, 4000-4500' From 7 lbs of GF* seed (TZ-86%, purity-98%, no weeds)		1000	lbs	\$ _____	\$ _____
	1C	Seed Delivery to Pendleton, Oregon		1400	lbs	\$ _____	\$ _____
		<b>TOTAL ITEM 1</b>				<b>XXXXXX</b>	<b>\$</b>
<b>Required Delivery Date: From date of award through 11/15/2008. Delivery shall occur within 90 days of harvest for each production year. Item will be evaluated and awarded based on Total Price for Item 1 – Only one award will be made for this task order.</b>						<b>Total Price: \$</b>	
<b>GF* - Government-furnished</b>							
<b>Contractor: (Name and Signature)</b>							
<b>Requested By: (Name and Signature)</b>							
COR							
<b>Fund Authorization: (Name and Signature)</b>							
Line Officer							
<b>Ordered By: (Name and Signature)</b>							
<b>Contracting Officer</b>							
<b>Order Date: 6/30/06</b>				<b>Job Code: NFWVXX</b>			

Original to CO, CC to Contractor, B&F and COR



## Contract Category: Restoration Services

**File Name:** sample\_taskorder051506.doc

**Purpose:** This is a sample of a task order to hire someone to go out and map seed collection areas, collect seed, and rough clean the seed. It explains all the standards the contractor is to use and how it is all to be documented to ensure you get a quality product. Only the first page of the 20 page document is included here.

**IF THIS ORDER IS GREATER THAN \$2,500.00, IT IS  
NOT VALID UNTIL SIGNED BY THE CONTRACTING OFFICER**

<b>Contract No.</b>		53-04R3-06-XXXX	<b>Project Name:</b>	Wildland Seed Collection		<b>County:</b> Umatilla	
<b>Contractor:</b>			<b>Issuing and Billing Office:</b> Umatilla National Forest 2517 SW Hailey Avenue Pendleton, OR 97801				
<b>Item No.</b>	<b>Subitem No.</b>	<b>Description</b>	<b>Quantity to Date</b>	<b>Quantity Order *</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Amount</b>
2.A	1a	Locate and map low elevation seed collection areas for bluebunch wheatgrass (PSSPS, <i>Pseudoroegneria spicata</i> )		1	Job		
	1b	Collect bluebunch wheatgrass from approved collection areas (minimum 20 lbs rough cleaned weight)		1	Job		
	2a	Locate and map low elevation seed collection areas for Idaho fescue(FEID, <i>Festuca idahoensis</i> )		1	Job		
	2b	Collect Idaho fescue from approved collection areas areas (minimum 15 lbs rough cleaned weight)		1	Job		
	3a	Locate and map low elevation seed collection areas for prairie junegrass (KOMA, <i>Koeleria macrantha</i> )		1	Job		
	3b	Collect prairie junegrass from approved collection areas (minimum 10 lbs rough cleaned weight)		1	Job		

## Contract Category: Restoration Services






**File Name:** Contractors\_items\_ContactInfo.doc







**Purpose:** This document lists the names of the contractors that have been pre-approved for restoration services in the left hand column. In the right hand column, the little trees are used in lieu of a checkmark or the word “YES” to indicate whether or not that particular contractor can provide item #1, item #2, or item #3.






The “items” are essentially a description of a type of work or a type service the contractor can perform. A description of the three items follows. A review of these items will give you a good understanding of what restoration services are all about, so the entire document is included here.




## Restoration Service Contractors and Contact Information

**Info: Contracting – Gary Dillavou- 541.278.3841; Technical – Scott Riley- 541.278.3829;  
Task Order Manager – Karen Prudhomme- 541.427.5391**

Item	1.0	2.0	3.0
<b>Contractor</b>			
<b>Apex Curb &amp; Turf, LLC</b>			
John Larson P.O. Box 417 Asotin, WA 99402 Office: (509) 758-1543 E-mail: apex@clarkston.com Fax: (509) 758-7831 Contract No. AG-04R3-C-06-0022	Project task order awards & dates:		
<b>Bitterroot Restoration, Inc.</b>			
Mark J. Sherbine P.O. Box 310 445 Quast Lane Corvallis, MT 59828 Office: (406) 961-4991 E-mail: Fax: Contract No. AG-04R3-C-06-0020	Project task order awards & dates:		
<b>Hanging Rock Excavation &amp; Construction, Inc.</b>			
Jason Hedgepeth 54695 Coombs loop LaGrande, OR 97850 Office: (541) 915-7542 E-mail: Fax: (541) 428-2159 Contract No. AG-04R3-C-06-0017	Project task order awards & dates:		

Item	1.0	2.0	3.0
<b>Contractor</b>			
<b>Wildlands, Inc.</b>			
Bill Mast 1941 Saint Street Richland, WA 99354-2101 Office: (509) 375-4177 E-mail: wildland@gte.net Fax: (509) 375-4717 Contract No. AG-04R3-C-06-0010	Project task order awards & dates:		
<b>Clearwater Native Nursery</b>			
Micheal Lattig 1980 SW 55th St. Redmond, OR 97756 Office: (541) 504-8211 E-mail: mlattig@msn.com Fax: Contract No: AG-04R3-C-06-0016	Project task order awards & dates:		
<b>Currans Family Farm</b>			
Sean Currans 53671 W. Crockett Road Milton-Freewater, OR 97862 Office: (541) 938-8182 E-mail: seancurrans@charter.net Fax: (541) 938-8182 Contract No: AG-04R3-C-06-0014	Project task order awards & dates:		

Item			
	1.0	2.0	3.0
<b>Contractor</b>			
<b>Derby Canyon Natives</b>			
Theodore Alway P.O.Box 385 Peshastin, WA 98847 Street Address: 9750 Derby Canyon Road Peshastin, WA 98847 Office: (509) 548-9404 E-mail: ted@derbycanyonnatives.com Fax: (509) 548-9404 Contract No: AG-04R3-C-06-0015	Project task order awards & dates:		
<b>Eastern Oregon Stewardship Services</b>			
Berta Youtie P.O. Box 606 Prineville, OR 97754 Office:(541) 447-8166 E-mail: byoutie@crestviewcable.com Fax: Contract No: AG-04R3-C-06-0018	Project task order awards & dates:		
<b>Methow Natives, LLC</b>			
Robert Crandell 19 Aspen Lane Winthrop, WA 98862 Office: (509) 996-3562 E-mail: methownatives@methownet.com Fax: Contract No: AG-04R3-C-06-0012	Project task order awards & dates:		

Item	1.0	2.0	3.0
<b>Contractor</b>			
<b>Mt. Jefferson Farms, Inc.</b>			
Shirley Dague P.O. Box 12708 Salem, OR 97309 Street Address: 3394 Browns Island Road South Salem, OR 97302 Office: (503) 363-0467 E-mail: mjfarms@heleport.com Fax: (503) 362-5248 Contract No: AG-04R3-C-06-0019	Project task order awards & dates:		
<b>Siskiyou BioSurvey, LLC</b>			
Richard Callagan 265 Ball Road Eagle Point, OR 97524 Office: 541-826-6104 E-mail: richmar@ccountry.com Fax: Contract No: AG-04R3-C-06-0013	Project task order awards & dates:		

Description of Items

**Item One (1) - Restoration Services**

**1.A Hydroseeding/Mulching.** Provide a variety of products (tackifiers, mulches, fertilizers, mycorrhizae, etc.) and capabilities (equipment, application methods, personnel, etc.) suited to each individual project. Minimum equipment requirements may be imposed if terrain is limiting. Projects will consist primarily of treating new road construction related to cut and fill slopes, shoulders, decommissioned roadways, source pits, spoils areas, and new landscaping. For example work may involve applying hydromulch only for temporary soil stabilization to meet National Pollutant Discharge

Elimination System (NPDES) permit requirements, or for watering newly seeded, planted, or vegetated soils prone to drying before plants can become established.

**NOTE: For pricing purposes only use those items described above in 1.A. However, individual Task Orders competed at a later date may require use of the following.**

Aerial Seeding/Mulching Application/Project Material(s) transport. Services may include but are not limited to, helicopters and/or fixed wing aircraft for the application of dry seed, dry fertilizer, hydro-seed/mulch/fertilizer, grass straw and wood product mulches, compost, etc. Applying approved herbicides for help in controlling an assortment of introduced and/or invasive plant species.

Anticipated projects might involve Ferry (helicopter) restoration materials, equipment, and supplies into remote or inaccessible project sites or aiding post fire restoration work, such as Burned Area Emergency Response (BEAR) efforts to quickly provide soil stabilization or erosion prone area, for example. All appropriate Forest Service aircraft requirements will apply and would be addressed in the specific Task Orders.

**1.B Pneumatic/Mechanical/Hand - Seed/Mulch/Compost Installation.**

Provide a variety of products (tackifiers, compost, straw, wood chips, fertilizer, amendments, etc) and capabilities (equipment, application methods, personnel, etc.) suited to each individual project. Projects will consist mainly of treating new road construction related to cut and fill slopes, shoulders, decommissioned roadway, source pits and spoils areas, and new landscaping. Additional services may include constructing compost berms, filling and creating wattles, socks, etc. using mulch or compost with a selection of casing materials.

**1.C Mechanical/Hydraulic Planting.** Provide a variety of mechanical and hydraulic equipment (mounted augers, handheld augers, water jet, excavator mounted hydraulically actuated expanding “stingers”, tree spades, etc.) and capabilities (various whole diameters, depth, portability, reach, substrate penetration, plant configuration capacity, etc.) to maximize planting efficiency and plant survival. Plant a variety of conifer, shrub, grass, sedge and forb container configurations including bare root into a wide range of ecological settings and substrates. Projects may include road cut and fill slopes, stormwater treatments, mine tailings, mine spoils, landscaping, riparian/wetland areas, and decommissioned roads for example.

**1.D Hand Planting/Plant Salvage.** Prepare and plant sites with shovels, dibbles, hoe-dads, planting bars, etc into varied substrates and ecological settings a range of container stock and bare-root plant materials including conifers, shrubs, grasses, sedges and forbs. Work may range from steep road cut and fill slopes to riparian/wetland settings. Access may be difficult for some projects, involving four-wheelers to transport plant materials and labor. Work may require the use of pesticides to control competing vegetation, rodents, or insects. In addition, application may include fertilizer, mycorrhizae, and game repellants. Protection of new plantings using a variety of caging and fencing options may be necessary to help insure plant survival and establishment. Work may also entail salvaging plant materials, transplanting directly or at a later time.



**1.E Mechanical/Hand Seeding.** Provide equipment capabilities appropriate for the ecological setting (seed drills, mounted broadcast seeders, hand seeders, etc.) including site and seedbed preparation equipment (discs, harrows, rippers, rakes, etc.) Projects may consist of treating new road construction related to cut and fill slopes, road shoulders, decommissioned roadways, source pits and spoils areas, and new landscaping.

**1.F Bioengineering/Stormwater Treatment.** Projects may involve cut and fill slope stabilization utilizing (live stakes and fascines, live crib-walls, vegetated geotextiles, vegetated gabion walls, vegetated riprap, vegetated rock walls, retaining walls, “stinger” plantings, etc), stream bank stabilization, stormwater treatments including: mechanical filtration systems, bio-retention, bio-filtration swales, vegetated buffer strips, sodding, settling basins, wet detention ponds, storm water wetlands, Ecology embankments, etc. in conjunction with run-off generated from road surfaces, parking lots, and disturbed sites often related to road construction processes.

**1.G Slash Shredding/Chipping/Hauling.** Provide mobile equipment that can efficiently reduce slash into shredded or chip form for use in creating compost (shredded) or used as mulch (shredded or chipped) on cut and fill slopes, decommissioned roads, etc. Provide equipment which can size, sort, or screen out and separate product as needed. For example, produce material for mulch blowing applications to a specific maximum size. Source material may be existing slash piles generated from timber management activities or highway right-of-way clearing for new road construction. Slash may vary from green to dry and brittle. Provide trucking, loading and unloading of product to designated sites, in general within a 10 mile radius of the project site.

**1.H Road Decommissioning/Obliteration.** Highway construction often realigns existing roads, leaving behind abandoned road surfaces which are severely compacted and will not support vegetation. Provide services to decommission and obliterate roads, this may involve pulling culverts, ripping the road bed, improving drainage and creating barriers to prevent further use as well as, recontouring and shaping. The Government will provide an implement for decommissioning that effectively rips, seeds and harrows in one pass. The implement is towed with a contractor provided dozer (minimum of 175 horse power) and is attached via the tool bar; the vertical ripping depth is controlled by the dozers hydraulics while the seeder is electrically powered, with seed rate/density controlled by the operator. Salvage and maintain plant materials for future use.

**1.I Vegetation/Invasive Plant Treatment/Inventory/Mapping/Monitoring.** Provide weed treatment plans for road construction projects including inventory, mapping, and monitoring. Provide appropriate state licensing, and experienced personnel to control undesirable vegetation, and state listed noxious weeds. Project areas are primarily along existing roads scheduled for improvement/reconstruction. This involves inventory, treatment, and monitoring 1) prior to construction activities, 2) during construction, and 3) post construction. Adjacent lands, right-of-ways, gravel pits, waste areas, and parking lots would be inventory, treatment, and monitoring candidates as well. Control may be necessary in both riparian and wetland restoration projects. Treatments may involve the use of herbicides applied by vehicle mounted boom or sprayer, or mechanized means such as mowers, etc. Back sprayers, brush cutters, weed whackers, hand pulling, burning, scalding, covering, etc. may also be employed. A weed treatment plan for a given project could continue for 3-5 years.

**NOTE: For pricing purposes only use those items described above in 1.I. However, individual Task Orders competed at a later date may require use of the following.**

Approved biological control agents may be used including collection and release. The use of goats and/or prescription grazing to help control invasive species may also be used. Inventories of existing populations and areas susceptible to invasion, such as new construction, would be carefully monitored during all phases of treatment.

**1.J Vegetation Monitoring.** Perform, establish, and analyze various established sampling and monitoring protocols throughout a multitude of ecological settings. Begin base-line establishment monitoring, and follow-up with effectiveness monitoring of restoration and revegetation projects. Primary work will be along transportation corridors following construction and revegetation of cut and fill slopes, decommissioned roads, and interchanges.

**1.K Riparian/Wetland Restoration/Channel Realignment.** Provide all services necessary to perform riparian and wetland restoration, including but not limited to: wetland delineation, stream classification, federal and state regulations, licenses, and permitting requirements, heavy equipment sufficient to relocate/reconstruct stream channels, build and place in stream structures, plant large size container trees and shrubs, haul large volumes of rock, sand, sediment, etc, minimize and mitigate resource damage. Design, plan, mitigate, and implement complex riparian/wetland restoration projects involving TES species. Effectively remove invasive species such as reed canary-grass. Enhance and restore hydrologic function, when practical, to reestablish a functional wetland or riparian stream segment. Additional services may involve plant salvage, direct transplanting, maintaining plant materials on site or transplanting off site for future use.

**1.L Landscaping.** Work will be primarily associated with previously completed road construction involving restoration work within transportation corridors and may include, weigh stations, rest-stops, overlooks, trail-heads, parking facilities, road medians and shoulders, safety zones, over and underpasses, wildlife crossings, ramps, noise abatement screens, and interchanges. Primary to this work is soil stabilization, beautification, maintenance, and functionality. Additional work may consist of designing and building appropriate temporary or permanent irrigation systems, providing topsoil, gravels, rock, stone, mulch, compost, erecting barriers, such as placing a large boulder to restrict/redirect pedestrians and traffic. Design and implement project specific stormwater treatments as needed.

**1.M Container/Bare-root Propagation.** Provide nursery services and facilities sufficient to propagate, produce, and track a wide variety of tree, shrub, grass, sedge, and forb species from seed and/or vegetative means providing an array of container and/or bare-root configurations. Delivery to project sites may be requested, necessitating appropriate transportation and storage equipment, such as a refrigerated trailer. Container requests may range from small volume grass plugs (8 ml) to one gallon tree (TPG-1) or larger, requiring a tree spade, depending on project needs. Often, information on germination or production of many native species is limited. Due to the uncertainties involved in large road construction projects scheduled delivery dates of plant materials for a specific project may occasionally need to be modified. This may involve delaying

delivery (weeks-months), changing container configuration and/or production strategy to accommodate an additional year of growth, or over wintering in a secure facility. The Government will generally provide all plant materials to the grower.

**1.N Seed Collection/Inventory/Mapping/Seed Cleaning.** Services may be required in part or whole depending on project requirements. Identify and collect phenologically appropriate native tree, shrub, forb, grass, sedge, and rush seed from a wide range of habitats and conditions. Collection sites may be remote requiring significant driving and/or hiking. Sites may also be along traveled highway corridors. Inventory and mapping involve locating, identifying, evaluating, and recording potential collection sites, species, and phenology. A typical project for example may first involve the contractor performing a 5-6 species inventory and mapping exercise, followed up with species specific seed phenology collecting over a range of elevations and habitats.

**1.O Vegetative Collection/Salvage/Inventory/Mapping.** Services may be required in part or whole depending on project requirements. Identify and collect phenologically appropriate native hardwood, shrub, forb, grass, sedge, and rush vegetative plant materials from a wide range of habitats and conditions. Collection sites may be remote requiring significant driving and/or hiking. Sites may also be along traveled highway corridors. Inventory and mapping involve locating, identifying, evaluating, and recording potential collection sites, species, and phenology. Post collection material handling, storage and transport may require refrigeration and/or overnight delivery. Long term cold storage (2-4 months) may be required prior to nursery planting. Collection requests for vegetative materials, for example, may vary from small twigs to rhizomes to large poles depending on project design.

**1.P Sediment/Erosion Control.** Design and implement sediment and erosion control plans for highway construction projects. Implement an already existing control plan or provide advice on design, implementation, or improve existing plans. Provide, install, or construct control devices, such as erosion control bales, wattles, logs and rolls, silt fence, temporary rolled erosion control products both short and long term, temporary mulching/seeding, check dams, settling ponds, basins, bio-filtration, geo-textiles, and geo-composite materials, etc sufficient to meet all local, state and federal regulatory requirements. The Government anticipates exercising this task order item infrequently if at all.

**1.Q Project Mobilization In/Out.** This cost should reflect the amount of time and resources required to travel to and from a project with the appropriate equipment to perform the task at hand. Mobilization may be incidental on some Task Orders.

## **Item Two (2) - Seed and Vegetation Collection**

**2.A Seed Collection/Inventory/Mapping/Seed Cleaning.** Services may be required in part or whole depending on project requirements. Identify and collect phenologically appropriate native conifer, hard-wood, shrub, forb, grass, sedge, and rush seed from a wide range of habitats and conditions. Collection sites may be remote requiring significant driving and/or hiking. Sites may also be along traveled highway corridors. Inventory and mapping involve locating, identifying, evaluating, and recording

potential collection sites, species, and phenology. A typical project for example may first involve the contractor performing a 5-6 species inventory and mapping exercise, followed up with species specific seed phenology collecting over a range of elevations and habitats.

**2.B Vegetative Collection/Inventory/Mapping.** Services may be required in part or whole depending on project requirements. Identify and collect phenologically appropriate native hardwood, shrub, forb, grass, sedge, and rush vegetative plant materials from a wide range of habitats and conditions. Collection sites may be remote requiring significant driving and/or hiking. Sites may also be along traveled highway corridors. Inventory and mapping involve locating, identifying, evaluating, and recording potential collection sites, species, and phenology. Post collection material handling, storage and transport may require refrigeration and/or overnight delivery. Long term cold storage (2-4 months) may be required prior to nursery planting. Collection requests for vegetative materials, for example, may vary from small twigs to rhizomes to large poles depending on project design.

### **Item Three (3) - Plant Propagation**

**3.0 Container/Bare Root propagation.** Provide nursery services and facilities sufficient to propagate, produce, and track a wide variety of tree, shrub, grass, sedge, and forb species from seed and/or vegetative means providing an array of container and/or bare-root configurations. Delivery and or shipping to project sites or other locations may be requested, necessitating appropriate transportation and storage equipment arrangements, such as a refrigerated trailer for example. Container requests, for example, may range from small volume grass plugs (8 ml) to one gallon tree (TPG-1) or larger, requiring a “stinger” or tree spade, depending on project needs. Often, information on germination or production of many native species is limited. Due to the uncertainties involved in large road construction projects scheduled delivery dates of plant materials for a specific project may occasionally need to be modified. This may involve delaying delivery (weeks-months), changing container configuration and/or production strategy to accommodate an additional year of growth, or over wintering in a secure facility. The Government will generally provide all plant materials (seeds and/or cuttings) to the grower.

## Appendix 4

# Propagation Of Pacific Northwest Native Plants

by

**Robin Rose, Caryn E.C. Chachulski, and Diane L. Haase**  
Corvallis, OR: Oregon State University Press. 1998.

A paper copy of this 148-page book will be provided to each office.

Propagation of Pacific Northwest Native Plants provides propagation information on nearly 140 native plants. Designed for use by both nursery professionals and home gardeners, this working manual presents the most current and comprehensive information in this emerging field. Drawn from forestry and agricultural journals, as well as from gardening and horticultural handbooks and personal sources, the techniques presented here offer invaluable direction to the many who wish to grow native plants.

Robin Rose is associate professor and the director of the Nursery Technology Cooperative in the Department of Forest Science at Oregon State University. Caryn E. C. Chachulski is a faculty research assistant for the Nursery Technology Cooperative. Diane L. Haase is the associate director of the Nursery Technology Cooperative.



## Appendix 5

# An Introduction To Using Native Plants In Restoration Projects

Prepared by  
Jeanette Dorner

Seattle: University of Washington, Center for Urban Horticulture. 2002.

for

Plant Conservation Alliance; U.S. Department of the Interior, Bureau of Land Management; and  
U.S. Environmental Protection Agency.

This publication provides information intended mainly as a guide for native plant restoration projects. After a discussion of the reasons to use native plants, the book provides guidance for planning a native plant project, preparing the site, planting the site, and caring for the site. Included are appendices with selected websites and literature cited.

This document is available electronically on the ONF Native Plant Materials website (<http://fsweb/onpmp/index.html>), and at <http://www.nps.gov/plants/restore/pubs/intronatplant/index.htm>.





## Appendix 6

### Revegetation Project Form

This form is intended to meet a need to provide a consistent framework for all resource areas to use whenever immediate erosion control is required.

This form was modified from the ONF Erosion Control Plan; it is in the process of being revised to address invasive plants and other issues. Please provide your input to Joan Ziegltrum ([jziegltrum@fs.fed.us](mailto:jziegltrum@fs.fed.us)).

**REVEGETATION PROJECT FORM**

**Project Name:**

**Sub-watershed (6<sup>th</sup> field):**

**Waterbody:**

**Location:**

**Brief Project Description:** (i.e. same as PCEF description)

**Erosion Control Measures** (list – from NEPA, Consultation, standard USFS spec 204, BMPs, FHWA etc.).

General (overall – entire project):

Temporary:

1. Seed and mulch all disturbed areas within 7 days of completion of construction activities at the site.
2. Install temporary check dams and sediment fences as necessary to minimize the entry of silt-laden water into streams or other water bodies.
3. Dewater any live streams prior to culvert removal or other instream work.
4. If wet weather conditions during project operations generate and transport sediment to a stream channel or other water body, cease operations until the weather conditions improve.
5. Revegetate disturbed streambanks with woody vegetation within one year after project completion.
6. \_\_\_\_\_
7. \_\_\_\_\_

Permanent:

1. Space cross ditches to minimize erosion
2. Armor all cross drain outlets
3. Dispose of excess material (spoils) so it does not enter stream channels or other water bodies.
4. \_\_\_\_\_
5. \_\_\_\_\_

**Specific Sites of Concern: (large fills, stream-adjacent slopes, unstable soils):**

**Erosion Control Measures for Specific Sites of Concern (if any):**

Temporary:

1. \_\_\_\_\_
2. \_\_\_\_\_

Permanent:

1. \_\_\_\_\_
2. \_\_\_\_\_

**Scheduling (includes timing, item/provision, and contract spec/reference):**

PHASE I                      Contract

Site	Item/provision	Timing	Spec	Sheet

Provisions for inclement weather: (narrative, dates, contract provisions, especially specific to sensitive sites as applicable).

- Contractor provided winterization plan approved by COR. End of construction season for winter shutdown October 15.
- ? Others items contractor was given:

PHASE II Post-contract implementation needs (list who, what, when):

PHASE III Maintenance (list who, what, when; if any):

Completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Designer: \_\_\_\_\_

Date: \_\_\_\_\_

## Appendix 7

### Engineering Contract Specifications

These specifications are intended to meet a need to have consistent language, forest wide, regarding revegetation for erosion control that can be inserted into contracts. The text has been reviewed by ONF engineers and their counterparts at the Pacific Northwest Regional Office level (Cisneros, personal communication, 2007). There are four different versions, depending on the elevation and soil moisture.

In the Engineering Contract Specifications, these will be referenced in Section 625.02 (materials).

**Contract Specifications for sites that are  $\leq 2500'$  in elevation, where soil is *not* saturated to the surface in mid-summer.**

Seed mix: Apply Olympic Seed mix #1, in the following proportions and application rate per acre:

Perennial rye	10 lbs/acre
Annual ryegrass	40 lbs/acre
Oats	30 lbs/acre
Austrian winter peas (inoculated)	15 lbs/acre
Red clover (inoculated)	5 lbs/acre

Mix must contain at least 72% pure live seed, and 0% species on the Washington State Noxious Weed List. Provide lab test report to USFS contact.

Timing of application: Sow in late fall.

Fertilizer: None.

Mulch: Cover with 2" of approved weed-free straw (or other weed-free material such as erosion control mat), spread evenly over the entire area that was seeded. If using straw, provide signed and dated documentation from whoever inspected the grower's fields to ensure the product does not contain species on the Washington State Noxious Weed List. Inspectors can include County Weed Board staff, WSU extension agents, or anyone else the USFS deems capable of identifying the weeds. If the USFS invasive species coordinator has a list of approved suppliers, these suppliers may be used.

**Contract Specifications for sites that are  $\leq 2500'$  in elevation, where soil is saturated to the surface in mid-summer.**

Seed mix: Apply Olympic Seed mix #2, in the following proportions and application rate per acre:

Annual ryegrass	40 lbs/acre
Oats	30 lbs/acre
Barley	15 lbs/acre
Alsike clover (inoculated)	5 lbs/acre

Mix must contain at least 72% pure live seed, and 0% species on the Washington State Noxious Weed List. Provide lab test report to USFS contact.

Timing of application: Sow in late fall.

Fertilizer: None.

Mulch: Cover with 2" of approved weed-free straw (or other weed-free material such as erosion control mat), spread evenly over the entire area that was seeded. If using straw, provide signed and dated documentation from whoever inspected the grower's fields to ensure the product does not contain species on the Washington State Noxious Weed List. Inspectors can include County Weed Board staff, WSU extension agents, or anyone else the USFS deems capable of identifying the weeds. If the USFS invasive species coordinator has a list of approved suppliers, these suppliers may be used.

**Contract Specifications for sites that are > 2500' in elevation, where soil is *not* saturated to the surface in mid-summer.**

Seed mix: Apply Olympic Seed mix #3, in the following proportions and application rate per acre:

Annual ryegrass	40 lbs/acre
Winter triticale	40 lbs/acre
Perennial ryegrass	10 lbs/acre
Red clover (inoculated)	5 lbs/acre

Mix must contain at least 72% pure live seed, and 0% species on the Washington State Noxious Weed List. Provide lab test report to USFS contact.

Timing of application: Sow in late fall.

Fertilizer: None.

Mulch: Cover with 2" of approved weed-free straw (or other weed-free material such as erosion control mat), spread evenly over the entire area that was seeded. If using straw, provide signed and dated documentation from whoever inspected the grower's fields to ensure the product does not contain species on the Washington State Noxious Weed List. Inspectors can include County Weed Board staff, WSU extension agents, or anyone else the USFS deems capable of identifying the weeds. If the USFS invasive species coordinator has a list of approved suppliers, these suppliers may be used.

**Contract Specifications for sites that are > 2500' in elevation, where soil is saturated to the surface in mid-summer.**

Seed mix: Apply Olympic Seed mix # 4, in the following proportions and application rate per acre:

Annual ryegrass	40 lbs/acre
Oats	30 lbs/acre
Barley	15 lbs/acre
Alsike clover (inoculated)	5 lbs/acre

Mix must contain at least 72% pure live seed, and 0% species on the Washington State Noxious Weed List. Provide lab test report to USFS contact.

Timing of application: Sow in late fall.

Fertilizer: None.

Mulch: Cover with 2" of approved weed-free straw (or other weed-free material such as erosion control mat), spread evenly over the entire area that was seeded. If using straw, provide signed and dated documentation from whoever inspected the grower's fields to ensure the product does not contain species on the Washington State Noxious Weed List. Inspectors can include County Weed Board staff, WSU extension agents, or anyone else the USFS deems capable of identifying the weeds. If the USFS invasive species coordinator has a list of approved suppliers, these suppliers may be used.





## Appendix 8

# Conservation Plants—Pocket ID Guide

by

U.S. Department of Agriculture, Soil Conservation Service, Elsberry Plant Materials Center. [no date]

A paper copy of this pocket-sized booklet will be provided to each recipient of the Native Plants Notebook. It is also available on the ONF Native Plant Materials website (<http://fsweb/onpmp/index.html>), and at <http://plant-materials.nrcs.usda.gov/technical/plantid/herbaceous/ConservationPlants.html>

The purpose of this guide is to help people identify commonly used conservation plants. The target audience was in Iowa, Illinois, and Missouri but many of the plants are also found in the Pacific Northwest. Included are color photos, line drawings, and seed photos, as well as plant stand evaluation and recommended use charts. Additional copies of the guide can be obtained from the National Association of Conservation Districts, 1-800-825-5547. Information about the USDA-NRCS Plant Materials Program can be found at <http://plant-materials.nrcs.usda.gov>.



## Appendix 9

### Recommendations from the Native Seed Network

In FY2007, the ONF applied for and was awarded funding through Title II, Resource Advisory Committee, to work with the Native Seed Network, a branch of the Institute for Applied Ecology. The purpose of the project was to “determine which native species are best suited for revegetation activities on the Olympic Peninsula, meet stewardship objectives of enhancing forest ecosystems, restore and improve land health and water quality.” When completed, the entire report will be distributed on the ONF, and will be available on line via the ONF native plant website <http://fsweb/onpmp/index.html>, or via [www.nativeseednetwork.org](http://www.nativeseednetwork.org).



## Appendix 10

### Revegetation Effectiveness Monitoring Report

This study, published internally in 1998, is titled Revegetation Monitoring Report: Mt. Baker-Snoqualmie National Forests. It was authored by Carol Aubry and Laura Potash.

The report presents the results of monitoring revegetation on decommissioned roadways and other road-related activities on the Mt. Baker-Snoqualmie National Forest. A total of 44 roads were surveyed.

An electronic version of the entire document, including photographs of each site, can be found on the ONF Native Plant website: <http://fswweb/onpmp/index.html>.