

**Non-Native Species with Invasiveness and Persistence Traits
Restricted List for Revegetation and Restoration**

Table 1. The following agricultural and landscaping grass species (non-natives) are considered both persistent and invasive when used for revegetation in habitats found within USFS Region One.

| Common name | Scientific name | Lifeform | Synonymous species and related varieties and subspecies (also non-native) |
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| GRASSES | | | |
| Crested wheatgrass | <i>Agropyron cristatum</i> (L.) Gaertn. | perennial bunchgrass | Similar: <i>A.cristatum</i> ssp. <i>cristatum</i> , <i>A. cristatum</i> ssp. <i>pectinatum</i> , <i>Agropyron desertorum</i> -desert wheatgrass, <i>Agropyron fragile</i> / <i>Agropyron sibiricum</i> —Siberian wheatgrass |
| Redtop bentgrass | <i>Agrostis gigantea</i> Roth | perennial, rhizomatous grass | Syn: <i>Agrostis alba</i> auct. non L., <i>A. gigantea</i> Roth var. <i>dispar</i> (Michx.) Philipson, <i>A. nigra</i> With, <i>A. stolonifera</i> L. ssp. <i>gigantea</i> (Roth) Schübl. & G. Martens, <i>A. stolonifera</i> L. var. <i>major</i> (Gaudin) Farw. |
| Creeping foxtail | <i>Alopecurus arundinaceus</i> Poir. | perennial, strongly rhizomatous grass | Syn: Creeping meadow foxtail; <i>Alopecurus ventricosus</i> . Similar: <i>Alopecurus pratensis</i> L. |
| Smooth brome | <i>Bromus inermis</i> Leyss. | perennial, strongly rhizomatous grass | Syn: Common brome, Awnless brome Similar: <i>Bromus inermis</i> ssp. <i>inermis</i> , <i>Bromus inermis</i> Leyss. ssp. <i>pumpellianus</i> . |
| Meadow brome | <i>Bromus riparius</i> Rehman | perennial, strongly rhizomatous grass | Similar: Pumpelly brome— <i>Bromus inermis</i> Leyss. ssp. <i>pumpellianus</i> (Scribn.) Wagnon |
| Orchardgrass | <i>Dactylis glomerata</i> L. | perennial bunchgrass | Syn: Turkeyfoot grass, Cocksfoot Similar: <i>D. glomerata</i> ssp. <i>aschersoniana</i> , <i>D. glomerata</i> ssp. <i>glomerata</i> , <i>D. glomerata</i> ssp. <i>himalayensis</i> , <i>D. glomerata</i> ssp. <i>hispanica</i> , <i>D. glomerata</i> ssp. <i>lobata</i> , <i>D. glomerata</i> ssp. <i>lusitanica</i> , <i>D. glomerata</i> ssp. <i>smithii</i> , <i>D. glomerata</i> ssp. <i>woronowii</i> . |
| Quackgrass | <i>Elytrigia repens</i> (L.) Gould | cool season perennial, strongly rhizomatous | Syn: <i>Agropyron repens</i> |
| Sheep fescue | <i>Festuca ovina</i> L. | perennial bunchgrass | Similar: Hard fescue— <i>Festuca ovina</i> var. <i>duriuscula</i> , <i>Festuca trachyophylla</i> |
| Perennial ryegrass | <i>Lolium perenne</i> L. | perennial bunchgrass | Syn: English ryegrass Similar: <i>Lolium perenne</i> ssp. <i>multiflorum</i> , <i>L. perenne</i> ssp. <i>perenne</i> |

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| Altai wildrye | <i>Leymus angustus</i> (Trin.) Pilger excluded | large tussock bunchgrass | Syn: <i>Aneurolepidium angustum</i> (Trin.) Nevski, <i>Elymus angustus</i> Trin. |
| Timothy | <i>Phleum pratense</i> L. | perennial bunchgrass | Syn: Herds grass; <i>Phleum nodosum</i> L., <i>Phleum pratense</i> L. ssp. <i>nodosum</i> (L.) Arcang, <i>Phleum pratense</i> L. var. <i>nodosum</i> (L.) Huds. |
| Bulbous bluegrass | <i>Poa bulbosa</i> L. | cool season tufted perennial | Similar: <i>Poa bulbosa</i> ssp. <i>nevskii</i> |
| Canada bluegrass | <i>Poa compressa</i> L. | Strongly rhizomatous perennial | Syn: Wiregrass, English bluegrass |
| Kentucky bluegrass | <i>Poa pratensis</i> L. | Strongly rhizomatous perennial forming dense sod | Syn: Junegrass, lawngrass Similar: <i>Poa pratensis</i> ssp. <i>alpigena</i> , <i>P. pratensis</i> ssp. <i>colpodea</i> , <i>P. pratensis</i> ssp. <i>irrigata</i> , <i>P. pratensis</i> ssp. <i>pratensis</i> |
| Russian wildrye | <i>Psathyrostachys juncea</i> (Fisch.) Nevski | densely tufted perennial bunchgrass | Syn: <i>Elymus junceus</i> Fisch. × <i>Leymostachys korovinii</i> Tzvelev |
| Tall fescue | <i>Schedonorus arundinaceus</i> (Schreb.) Dumort., nom. cons. | cool-season perennial bunchgrass | Syn: Alta fescue, Reed fescue; <i>Festuca arundinacea</i> Schreb, <i>F. elatior</i> L. ssp. <i>arundinacea</i> (Schreb.) Hack, <i>F. elatior</i> L. var. <i>arundinacea</i> (Schreb.) Wimm, <i>F. fenas</i> Lag. <i>F. uechtriziana</i> Wies, <i>Lolium arundinaceum</i> (Schreb.) S.J. Darbyshir, <i>Schedonorus phoenix</i> (Scop.) Holub |
| Intermediate wheatgrass/ Pubescent wheatgrass | <i>Thinopyrum intermedium</i> (Host.) Barkworth & Dewey | perennial, rhizomatous grass | Syn: Intermediate wheatgrass, Pubescent wheatgrass; <i>Agropyron aucheri</i> Boiss, <i>A. ciliatiflorum</i> Roshev, <i>A. gentryi</i> Melderis, <i>A. glaucum</i> (Desf. ex DC.) Roem. & Schult. <i>A. intermedium</i> (Host) P. Beauv. <i>A. intermedium</i> (Host) P. Beauv. var. <i>trichophorum</i> (Link) Halac, <i>A. podperae</i> Nabelek, <i>A. pulcherrimum</i> Grossh., <i>A. trichophorum</i> (Link) K. Richt. Melderis, <i>Elymus hispidus</i> (Opiz) Melderis ssp. <i>barbulatus</i> (Schur) Melderis, <i>E. hispidus</i> (Opiz) Melderis var. <i>ruthenicus</i> (Griseb.) Dorn <i>E. intermedius</i> (Host) P. Beauv., <i>Elytrigia intermedia</i> (Host) Nevski, <i>E. intermedia</i> (Host) Nevski ssp. <i>barbulata</i> (Schur) Á. Löve, <i>E. intermedia</i> (Host) Nevski ssp. <i>intermedia</i> , <i>E. intermedia</i> (Host) Nevski ssp. <i>trichophora</i> (Link) Tsvzel <i>Thinopyrum intermedium</i> (Host) Barkworth & D.R. Dewey ssp. <i>barbulatum</i> (Schur) Barkworth & D.R. Dewey |

Table 2. The following agricultural and landscaping forb species (non-natives) are considered both persistent and invasive when used for revegetation in habitats found in USFS Region One.

| FORBS | | | |
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| Yellow alfalfa | <i>Medicago sativa</i> L. ssp. <i>falcata</i> | perennial | Syn: <i>Medicago falcata</i> L, <i>Medicago falcata</i> L. var. <i>romanica</i> (Prodan) O. Schwarz & Klink |
| Sweet clover | <i>Melilotus officinalis</i> L.(Lam.) | annual/ short-lived perennial | Syn: <i>Melilotus alba</i> Medikus, orth. var., <i>M. albus</i> Medik, <i>M. albus</i> Medik. var. <i>annuus</i> Coe <i>M. arvensis</i> Wallr., <i>M. leucanthus</i> W.D.J. Koch ex DC., <i>M. lutea</i> Gueldenst. <i>M. officinalis</i> (L.) Lam. var. <i>micranthus</i> O.E. Schulz |
| Red clover | <i>Trifolium pratense</i> L. | biennial/perennial | Syn: <i>T. pratense</i> L. var. <i>frigidum</i> auct. non Gaudin, <i>T. pratense</i> L. var. <i>sativum</i> (Mill.) Schreb. |
| Alsike clover | <i>Trifolium hybridum</i> L. | perennial | Syn: <i>Trifolium elegans</i> Savi., <i>T. hybridum</i> L. ssp. <i>elegans</i> (Savi) Asch. & Graebn, <i>T. hybridum</i> L. var. <i>elegans</i> (Savi) Boiss., <i>T. hybridum</i> L. var. <i>pratense</i> Rabenh. |
| White clover | <i>Trifolium repens</i> L. | perennial | Syn: <i>Trifolium repens</i> L. var. <i>atropurpureum</i> hort., <i>T. repens</i> L. var. <i>biasolettii</i> , <i>T. occidentale</i> , <i>T. repens</i> L. var. <i>giganteum</i> |
| Crimson clover | <i>Trifolium incarnatum</i> L. | annual | Syn: <i>Trifolium incarnatum</i> L. var. <i>elatius</i> Gibelli & Belli |
| Strawberry clover | <i>Trifolium fragiferum</i> L. | | |
| Rose clover | <i>Trifolium hirtum</i> All. | annual | |
| Berseem clover | <i>Trifolium alexandrinum</i> L. | annual | |
| Bird's foot trefoil | <i>Lotus corniculatus</i> L. | perennial | Similar: <i>Lotus corniculatus</i> ssp. <i>frondosu</i> , <i>L. corniculatus</i> var. <i>carnosus</i> , <i>L. corniculatus</i> var. <i>corniculatus</i> , <i>L. corniculatus</i> var. <i>hirsutus</i> |
| Sanfoin | <i>Onobrychis viciifolia</i> Scop. | perennial | Syn: <i>Hedysarum onobrychis</i> L. <i>Onobrychis sativa</i> Lam., <i>O. viciaefolia</i> Scop., orth. var. |
| Winter vetch | <i>Vicia villosa</i> Roth | annual/perennial/ biennial | Similar: <i>V. villosa</i> Roth ssp. <i>eriocarpa</i> ., <i>V. villosa</i> Roth ssp. <i>pseudocracca</i> , <i>V. villosa</i> Roth ssp. <i>varia</i> , <i>V. villosa</i> Roth ssp. <i>villosa</i> |
| Greater knapweed | <i>Centaurea scabiosa</i> L. | perennial | Syn: <i>Centaurea scabiosa</i> L. var. <i>vertesensis</i> (Boros) Soo |
| Cornflower | <i>Centaurea cyanus</i> L. | | |
| Perennial cornflower | <i>Centaurea montana</i> L. | perennial | Syn: Mountain bleuit, Mountain knapweed, <i>C. montana</i> L. var. <i>alba</i> hort. |
| Field mustard | <i>Brassica rapa</i> L. | annual, biennial | Similar: <i>Brassica rapa</i> var. <i>amplexicaulis</i> , <i>B. rapa</i> var. |

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| | | | <i>dichotoma</i> , <i>B. rapa</i> var. <i>rapa</i> , <i>B. rapa</i> var. <i>silvestris</i> , <i>B. rapa</i> var. <i>trilocularis</i> |
| Common yarrow | <i>Achillea filipendulina</i> Lam. | spreading perennial | |
| Common corncockle | <i>Agrostemma githago</i> L. | annual | |
| Scarlet pimpernel | <i>Anagallis arvensis</i> L. | annual | Similar: <i>Anagallis arvensis</i> ssp. <i>arvensis</i> , <i>A. arvensis</i> ssp. <i>foemina</i> |
| Golden chamomile | <i>Anthemis tinctoria</i> L. | perennial | Syn: <i>Cota tinctoria</i> (L.) J. Gay |
| Chickpea milkvetch | <i>Astragalus cicer</i> L. | perennial | |
| Lawn daisy | <i>Bellis perennis</i> L. | perennial | Syn: English daisy |
| Celandine | <i>Chelidonium majus</i> L. | biennial | Similar: <i>Chelidonium. majus</i> var. <i>lanciniatum</i> , <i>C. majus</i> var. <i>majus</i> , <i>C. majus</i> var. <i>plenum</i> |
| Chicory | <i>Cichorium intybus</i> L. | biennial, perennial | Syn: French endive, Succory, <i>Cichorium intybus</i> L. var. <i>foliosum</i> Hegi, <i>C. intybus</i> L. var. <i>sativum</i> (Bisch.) Janch |
| Golden tickseed | <i>Coreopsis tinctoria</i> var. <i>tinctoria</i> | annual/ perennial | |
| Sweet William | <i>Dianthus barbatus</i> L. | perennial | Syn: <i>D. barbatus</i> L. ssp. <i>barbatus</i> |
| Maiden pink | <i>Dianthus deltoides</i> L. | perennial | Syn: <i>Dianthus deltoides</i> L. ssp. <i>deltoides</i> |
| Foxglove | <i>Digitalis purpurea</i> L. | biennial | Syn: <i>Digitalis purpurea</i> L. ssp. <i>amandiana</i> , <i>D. purpurea</i> L. ssp. <i>purpurea</i> |
| Coneflower | <i>Echinacea purpurea</i> (L.) Moench | perennial | Syn: <i>Echinacea purpurea</i> (L.) Moench var. <i>arkansana</i> Steyerm, <i>Brauneria purpurea</i> (L) Britton., <i>Rudbeckia purpurea</i> L. |
| Siberian wallflower | <i>Erysimum</i> × <i>marshallii</i> (Henfr.) Bois | annual | Syn: <i>Cheiranthus allionii</i> hort. ex Bois, <i>Erysimum</i> × <i>allionii</i> hort., nom. illeg. |
| Tufted poppy | <i>Eschscholzia caespitosa</i> Benth. | annual | |
| California poppy | <i>Eschscholzia californica</i> Cham. | annual/ short-lived perennial | Similar: <i>Eschscholzia californica</i> ssp. <i>californica</i> , <i>E. californica</i> ssp. <i>mexicana</i> . |
| Baby's breath | <i>Gypsophila elegans</i> M. Bieb. | annual/biennial | Syn: <i>Gypsophila elegans</i> M. Bieb. var. <i>elegans</i> |
| Dames rocket | <i>Hesperis matronalis</i> L. | biennial/ short-lived perennial | Syn: <i>H. matronalis</i> L. ssp. <i>candida</i> <i>H. matronalis</i> L. ssp. <i>voronovii</i> |
| Blue-button, field scabiosa | <i>Knautia arvensis</i> (L.) J.M. Coult. | perennial | Syn: <i>Scabiosa arvensis</i> L. |
| Shasta daisy | <i>Leucanthemum maximum</i> (Raymond) DC | annual | Syn: <i>Chrysanthemum maximum</i> Ramond |
| Baby snapdragon | <i>Linaria macroccana</i> Hook. f. | annual | |
| Scarlet flax | <i>Linum grandiflorum</i> Desf. | annual | Syn: <i>Adenolinum grandiflorum</i> (Desf.) W.A. Weber, <i>Linum grandiflorum</i> Desf. var. <i>rubrum</i> hort. |

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| Sweet alyssum | <i>Lobularia maritime</i> (L.) Desv. | annual | Syn: <i>Alyssum maritimum</i> (L.) Lam. <i>Clypeola maritime</i> L., <i>Koniga maritime</i> (L.) R. Br. |
| Maltese cross | <i>Lychnis chalcedonia</i> L. | perennial | |
| Black medick | <i>Medicago lupulina</i> L. | annual/perennial | Syn: <i>Medicago lupulina</i> L. var. <i>cupaniana</i> (Guss.) Boiss. <i>M. lupulina</i> L. var. <i>glandulosa</i> Neilr. Similar: <i>M. lupulina</i> var. <i>willdenowii</i> |
| Forget-me-not | <i>Myosotis scorpioides</i> L. | annual | Syn: <i>Myosotis palustris</i> (L.) Hill |
| Corn poppy | <i>Papaver rhoeas</i> L. | annual | |
| Salad burnet | <i>Sanguisorba minor</i> Scop. | perennial | Similar: <i>Sanguisorba minor</i> ssp. <i>balearica</i> , <i>S. minor</i> ssp. <i>magnolii</i> |
| Common crown vetch | <i>Securigera varia</i> (L.) Lassen | perennial vine | Syn: <i>Coronilla varia</i> L. |
| Johnny jump-up | <i>Viola tricolor</i> L. | annual | |

Table 3. The following agricultural and landscaping forb species (non-natives) may have persistent and/or invasiveness characteristics when used for revegetation in USFS Region One habitats however more information is needed.

| FORBS SPECIES FOR WHICH MORE INFORMATION IS NEEDED | | | |
|--|--|-----------------------------------|---|
| Painted daisy | <i>Glebionis carinatus</i> (Schousb.)Tzvelev | annual | Syn: <i>Chrysanthemum carinatum</i> Schousb, <i>Ismelia carinata</i> (Schousb.) Sch. Bip. |
| Moss verbena | <i>Glandularia pulchella</i> (Sweet)Troncoso | annual/ perennial; sub-shrub/forb | Syn: <i>Glandularia tenuisecta</i> (Briq.) Small, <i>Verbena pulchella</i> Sweet, <i>V. pulchella</i> Sweet var. <i>gracilior</i> (Troncoso) Shinnery, <i>V. tenuisecta</i> Briq, <i>V. tenuisecta</i> Briq. var. <i>alba</i> Moldenke |
| Gazania | <i>Gazania rigens</i> (L.) Gaertn. | perennial | Syn: <i>Gazania splendens</i> Lem. |
| Garden cosmos | <i>Cosmos bipinattus</i> Cav. | annual | |
| Rocket larkspur | <i>Consolida ajacis</i> (L.) Schur | annual | Syn: <i>Consolida ambigua</i> (L.) P.W. Ball & Heywood, <i>Delphinium ajacis</i> L, <i>D. ambiguum</i> L. |
| Basket of gold | <i>Aurinia saxatilis</i> (L.) Desv. | perennial | Syn: <i>Aethionema saxatile</i> (L.) R. Br, <i>Alyssum saxatile</i> L, <i>A. saxatile</i> L. var. <i>compactum</i> hort. Similar: <i>Aurinia saxatilis</i> ssp. <i>orientalis</i> |
| African daisy | <i>Arctotis stoechadifolia</i> P.J. Bergius | perennial | Syn: <i>Arctotis grandis</i> Thunb, <i>A. stoechadifolia</i> P.J. Bergius var. <i>grandis</i> |
| European columbine | <i>Aquilegia vulgaris</i> | perennial | |
| Golden columbine | <i>Aquilegia chrysantha</i> A. Gray | perennial | Similar: <i>Aquilegia chrysantha</i> var. <i>chaplinaei</i> , <i>A. chrysantha</i> var. <i>chrysantha</i> , <i>A. chrysantha</i> var. <i>hinckleyana</i> , <i>A. chrysantha</i> var. <i>rydbergii</i> |

Syn: Abbreviation of “synonymous”. Species described as “synonymous” are considered to be the same as the listed species, according to the NRCS Plants Database.

Similar: Species described as “similar” are listed by the NRCS Plants Database as related taxa.

All taxonomy current and accurate according to the NRCS Plants Database as of 1/1/13.

USDA, NRCS. 2013. The PLANTS Database (<http://plants.usda.gov>, 8 November 2012). National Plant Data Team, Greensboro, NC 27401-4901 USA.