10p Achillea_millefolium 100 Anthemis_arvensis L Artemisia_campestris Soliva_sessilis Gamochaeta_purpurea
Anaphalis_margaritacea matK: Bellis_perennis 100 Senecio_sylvaticus Senecio_vulgaris 253 taxa Coreopsis_lanceolata Tragopogon_porrifolius 190Sonchus_asper Sonchus_arvensis Hypochaeris_glabra
Hypochaeris_radicata 1456 bp Scorzoneroides_autumnalis Lapsana_communis Crepis_capillaris Taraxacum_officinale 89─ Lactuca_muralis Lactuca_serriola Hieracium_albiflorum 100 | Cirsium_vulgare Cirsium_arvense Adenocaulon_bicolor Campanula_rotundifolia 95 Cosmorhiza_purpurea Anthriscus_caucalis 73 Heracleum_maximum 100 Petroselinum_crispum 93— Perideridia_gairdneri Oenanthe_sarmentosa Hedera_helix Valerianella_locusta — Plectritis_congesta 100 Linnaea_borealis 96 Lonicera_involucrata
Symphoricarpos_albus ---- Sambucus_racemosa ----- Ilex_aquifolium 100 ____ Veronica_chamaedrys Veronica_arvensis Veronica_officinalis 100 Veronica_peregrina Veronica_serpyllifolia 7 Plantago_major ----- Plantago_maritima Plantago_lanceolata Digitalis_purpurea — Collinsia_grandiflora 99 100 Prunella_vulgaris Lamium_purpureum --- Mimulus_guttatus Orobanche_uniflora 100 — Myosotis_discolor Buglossoides_arvensis Galium_aparine 98 ----- Sherardia_arvensis Vinca_major --- Solanum_dulcamara 100 ___ Gaultheria_shallon 100 └── Vaccinium_parvifolium — Arctostaphylos_uva_ursi 100 ----- Anagallis_arvensis ----- Primula_pauciflora 18 Cerastium_glomeratum 55 Cerastium_pumilum 91 Cerastium_semidecandrum
Cerastium_arvense Cerastium_fontanum 100 43 Stellaria_crispa 93 Stellaria_media Stellaria_nitens 100 Silene_scouleri 5 Silene_menziesii Silene_coronaria 00 Silene_gallica 100 Silene_antirrhina 100 Spergularia_macrotheca Spergularia_rubra ----- Honckenya_peploides ----- Arenaria_serpyllifolia 100 _____ Minuartia_rubella Sagina_decumbens 93 Atriplex_prostrata
Chenopodium_album Sarcocornia_perennis 95- Claytonia_parviflora 95 Claytonia_perfoliata 100 Claytonia_exigua Calandrinia_ciliata Montia_parvifolia 96 Montia_fontana Opuntia_fragilis 48 Rumex_occidentalis Rumex_acetosella 100 Rumex_crispus Rumex_conglomeratus 100 Polygonum_aviculare --- Armeria_maritima ⁹7 Malus_fusca 5 Malus_pumila Amelanchier_alnifolia Crataegus_monogyna Pyrus_communis Sorbus_aucuparia Cotoneaster_franchetii Cotoneaster_horizontalis 100 Prunus_avium ---- Prunus_cerasus 100 Prunus_mahaleb Prunus_virginiana Holodiscus_discolor Oemleria_cerasiformis Fragaria_vesca

Fragaria_virginiana Aphanes_australis ------ Potentilla_anserina Rubus_ursinus 84 Shepherdia_canadensis — Urtica_dioica 7 — Vicia_americana ---- Vicia_sativa Vicia_cracca

100 Vicia_nigricans 100 Lathyrus_japonicus 2 Lathyrus_aphaca └── Vicia_hirsuta 100 Trifolium_microcephalum 10 Trifolium_repens 99 Trifolium_subterraneum
Trifolium_incarnatum 100 Trifolium_dubium Oxytropis_campestris Lotus_corniculatus 95– Alnus_rubra 5 Alnus_alnobetula Corylus_cornuta — Chamerion_angustifolium Populus_tremuloides Hypericum_perforatum Paxistima_myrsinites 100 Geranium_dissectum Geranium_molle — Geranium_carolinianum 100 --- Geranium_robertianum ----- Erodium_cicutarium 84 100 F Barbarea_vulgaris 74 Barbarea_orthoceras Cardamine_flexuosa
Cardamine_hirsuta 77 Turritis_glabra ---- Capsella_bursa_pastoris Arabidopsis_thaliana — Lepidium_virginicum Cakile_edentula
Cakile_maritima 100 Brassica_nigra 100 Sinapis_arvensis Brassica_rapa 100 Arabis_hirsuta Erophila_verna Teesdalia_nudicaulis — Daphne_laureola 100 Vitis_riparia Vitis_vinifera 100 r Tiarella_trifoliata 99 Tellima_grandiflora --- Micranthes_integrifolia Ribes_lacustre 98 ---- Crassula_tillaea 100Ranunculus_uncinatus Ranunculus_occidentalis L Ranunculus_californicus — Myosurus_minimus Aquilegia_formosa Berberis_aquifolium Eschscholzia_californica 9₿ Festuca_rubra Yulpia_bromoides 98 Vulpia_myuros 95 Vulpia_microstachys 100 Festuca_pratensis Festuca_arundinacea Cynosurus_echinatus Cynosurus_cristatus Holcus_lanatus Dactylis_glomerata 99 Poa_compressa
99 Poa_trivialis
Poa_pratensis Poa_annua
Poa_bulbosa 84 100 Aira_praecox Aira_caryophyllea Puccinellia_nutkaensis 97— Trisetum_cernuum 98 Koeleria_macrantha
44 Avena_fatua Anthoxanthum_odoratum 48 82 Agrostis_stolonifera 100 Agrostis_scabra Agrostis_exarata ☐ Polypogon_monspeliensis Phalaris_arundinacea 7₁6Elymus_repens 8 Lolium_perenne
8 Elymus_trachycaulus
4 Taeniatherum_caput_medusae Leymus_mollis 95 Hordeum_jubatum Hordeum_brachyantherum Hordeum_murinum 92 Bromus_hordeaceus 100 Bromus_commutatus
Bromus_diandrus L Bromus_sterilis 100 _____ Distichlis_spicata ——— Danthonia_californica 100 Juncus_bufonius 100 100 Juncus_effusus Bolboschoenus_maritimus Eleocharis_palustris Typha_latifolia Erythronium_oregonum
Fritillaria_affinis 100 | Maianthemum_dilatatum Maianthemum_racemosum 100 —— Asparagus_officinalis 100 _____ Brodiaea_coronaria Triteleia_hyacinthina ——— Camassia_leichtlinii Narcissus_pseudonarcissus Iris_germanica Olsynium_douglasii Corallorhiza_maculata Calypso_bulbosa 7——— Listera_cordata Epipactis_helleborine 100 Zostera_marina Triglochin_maritima Lemna_turionifera 100 ——— Thuja_plicata 100 Taxus_brevifolia ---- Pinus_contorta Equisetum_arvense

0.2