附表 1　北方草地重点植物名录

Appendix table 1　The list of key grassland plants in Northern China

Species	Genus	Family	Number of images
Axyris amaranthoides	*Axyris*	Amaranthaceae	297
Bassia prostrata	*Bassia*	Amaranthaceae	120
Chenopodium acuminatum	*Chenopodium*	Amaranthaceae	500
Chenopodium album	*Chenopodium*	Amaranthaceae	500
Corispermum squarrosum	*Corispermum*	Amaranthaceae	344
Grubovia dasyphylla	*Grubovia*	Amaranthaceae	327
Salsola collina	*Salsola*	Amaranthaceae	500
Teloxys aristata	*Teloxys*	Amaranthaceae	500
Allium anisopodium	*Allium*	Amaryllidaceae	101
Allium bidentatum	*Allium*	Amaryllidaceae	103
Allium mongolicum	*Allium*	Amaryllidaceae	448
Allium ramosum	*Allium*	Amaryllidaceae	150
Allium senescens	*Allium*	Amaryllidaceae	650
Allium tenuissimum	*Allium*	Amaryllidaceae	150
Bupleurum scorzonerifolium	*Bupleurum*	Apiaceae	646
Ferula bungeana	*Ferula*	Apiaceae	466
Saposhnikovia divaricata	*Saposhnikovia*	Apiaceae	648
Cynanchum thesioides	*Cynanchum*	Apocynaceae	500
Anemarrhena asphodeloides	*Anemarrhena*	Asparagaceae	149
Asparagus dauricus	*Asparagus*	Asparagaceae	500
Achillea asiatica	*Achillea*	Asteraceae	339
Artemisia anethifolia	*Artemisia*	Asteraceae	67
Artemisia desertorum	*Artemisia*	Asteraceae	314
Artemisia eriopoda	*Artemisia*	Asteraceae	402
Artemisia frigida	*Artemisia*	Asteraceae	644
Artemisia pubescens	*Artemisia*	Asteraceae	29
Artemisia scoparia	*Artemisia*	Asteraceae	500
Artemisia sieversiana	*Artemisia*	Asteraceae	500
Artemisia stechmanniana	*Artemisia*	Asteraceae	500
Artemisia tanacetifolia	*Artemisia*	Asteraceae	73
Aster alpinus	*Aster*	Asteraceae	477
Aster altaicus	*Aster*	Asteraceae	650
Aster tataricus	*Aster*	Asteraceae	500
Echinops gmelinii	*Echinops*	Asteraceae	498
Erigeron acris	*Erigeron*	Asteraceae	375
Filifolium sibiricum	*Filifolium*	Asteraceae	645
Ixeris chinensis	*Ixeris*	Asteraceae	499
Ixeris chinensis subsp. *versicolor*	*Ixeris*	Asteraceae	150
Klasea centauroides	*Klasea*	Asteraceae	647
Leontopodium leontopodioides	*Leontopodium*	Asteraceae	500
Olgaea leucophylla	*Olgaea*	Asteraceae	260
Olgaea lomonossowii	*Olgaea*	Asteraceae	357
Rhaponticum uniflorum	*Rhaponticum*	Asteraceae	500
Saussurea amara	*Saussurea*	Asteraceae	500

Species	Genus	Family	Number of images
Saussurea japonica	*Saussurea*	Asteraceae	500
Saussurea salicifolia	*Saussurea*	Asteraceae	23
Takhtajaniantha pusilla	*Takhtajaniantha*	Asteraceae	104
Taraxacum mongolicum	*Taraxacum*	Asteraceae	147
Amblynotus rupestris	*Amblynotus*	Boraginaceae	118
Lappula myosotis	*Lappula*	Boraginaceae	498
Myosotis alpestris	*Myosotis*	Boraginaceae	500
Tournefortia sibirica	*Tournefortia*	Boraginaceae	500
Alyssum lenense	*Alyssum*	Brassicaceae	131
Cardamine prorepens	*Cardamine*	Brassicaceae	215
Descurainia sophia	*Descurainia*	Brassicaceae	500
Dontostemon dentatus	*Dontostemon*	Brassicaceae	500
Dontostemon micranthus	*Dontostemon*	Brassicaceae	75
Dontostemon perennis	*Dontostemon*	Brassicaceae	171
Draba nemorosa	*Draba*	Brassicaceae	500
Erysimum amurense	*Erysimum*	Brassicaceae	500
Lepidium apetalum	*Lepidium*	Brassicaceae	500
Noccaea thlaspidioides	*Noccaea*	Brassicaceae	286
Adenophora gmelinii	*Adenophora*	Campanulaceae	477
Adenophora stenanthina	*Adenophora*	Campanulaceae	650
Cannabis sativa	*Cannabis*	Cannabaceae	500
Patrinia rupestris	*Patrinia*	Caprifoliaceae	500
Scabiosa comosa	*Scabiosa*	Caprifoliaceae	500
Valeriana officinalis	*Valeriana*	Caprifoliaceae	500
Adenonema cherleriae	*Adenonema*	Caryophyllaceae	324
Dianthus chinensis	*Dianthus*	Caryophyllaceae	500
Dianthus superbus	*Dianthus*	Caryophyllaceae	500
Eremogone juncea	*Eremogone*	Caryophyllaceae	500
Silene aprica	*Silene*	Caryophyllaceae	500
Silene jeniseensis	*Silene*	Caryophyllaceae	646
Silene repens	*Silene*	Caryophyllaceae	499
Stellaria dichotoma var. *lanceolata*	*Stellaria*	Caryophyllaceae	158
Convolvulus ammannii	*Convolvulus*	Convolvulaceae	650
Convolvulus arvensis	*Convolvulus*	Convolvulaceae	650
Hylotelephium malacophyllum	*Hylotelephium*	Crassulaceae	500
Phedimus aizoon	*Phedimus*	Crassulaceae	500
Carex duriuscula	*Carex*	Cyperaceae	90
Carex korshinskyi	*Carex*	Cyperaceae	28
Carex orthostachys	*Carex*	Cyperaceae	327
Carex pediformis	*Carex*	Cyperaceae	25
Elaeagnus angustifolia	*Elaeagnus*	Elaeagnaceae	500
Ephedra sinica	*Ephedra*	Ephedraceae	500
Pyrola asarifolia subsp. *incarnata*	*Pyrola*	Ericaceae	500
Euphorbia esula	*Euphorbia*	Euphorbiaceae	648
Euphorbia fischeriana	*Euphorbia*	Euphorbiaceae	373

Species	Genus	Family	Number of images
Astragalus dahuricus	*Astragalus*	Fabaceae	500
Astragalus galactites	*Astragalus*	Fabaceae	358
Astragalus laxmannii	*Astragalus*	Fabaceae	650
Astragalus melilotoides	*Astragalus*	Fabaceae	500
Astragalus membranaceus var. *mongholicus*	*Astragalus*	Fabaceae	500
Astragalus scaberrimus	*Astragalus*	Fabaceae	648
Astragalus tenuis	*Astragalus*	Fabaceae	257
Caragana korshinskii	*Caragana*	Fabaceae	498
Caragana microphylla	*Caragana*	Fabaceae	650
Caragana stenophylla	*Caragana*	Fabaceae	203
Gueldenstaedtia verna	*Gueldenstaedtia*	Fabaceae	150
Medicago ruthenica	*Medicago*	Fabaceae	650
Oxytropis grandiflora	*Oxytropis*	Fabaceae	59
Oxytropis myriophylla	*Oxytropis*	Fabaceae	650
Thermopsis lanceolata	*Thermopsis*	Fabaceae	649
Trifolium lupinaster	*Trifolium*	Fabaceae	500
Vicia amoena	*Vicia*	Fabaceae	500
Vicia cracca	*Vicia*	Fabaceae	500
Vicia multicaulis	*Vicia*	Fabaceae	82
Vicia unijuga	*Vicia*	Fabaceae	500
Gentiana dahurica	*Gentiana*	Gentianaceae	500
Gentiana macrophylla	*Gentiana*	Gentianaceae	500
Gentiana squarrosa	*Gentiana*	Gentianaceae	150
Gentianopsis barbata	*Gentianopsis*	Gentianaceae	500
Erodium stephanianum	*Erodium*	Geraniaceae	500
Geranium pratense	*Geranium*	Geraniaceae	500
Ribes diacanthum	*Ribes*	Grossulariaceae	183
Iris dichotoma	*Iris*	Iridaceae	150
Iris tenuifolia	*Iris*	Iridaceae	150
Iris tigridia	*Iris*	Iridaceae	150
Iris ventricosa	*Iris*	Iridaceae	131
Dracocephalum moldavica	*Dracocephalum*	Lamiaceae	500
Lagochilus ilicifolius	*Lagochilus*	Lamiaceae	165
Leonurus sibiricus	*Leonurus*	Lamiaceae	500
Phlomoides tuberosa	*Phlomoides*	Lamiaceae	471
Schizonepeta multifida	*Schizonepeta*	Lamiaceae	435
Schizonepeta tenuifolia	*Schizonepeta*	Lamiaceae	45
Scutellaria baicalensis	*Scutellaria*	Lamiaceae	500
Scutellaria scordiifolia	*Scutellaria*	Lamiaceae	645
Scutellaria viscidula	*Scutellaria*	Lamiaceae	149
Thymus mongolicus	*Thymus*	Lamiaceae	500
Gagea pauciflora	*Gagea*	Liliaceae	297
Lilium pumilum	*Lilium*	Liliaceae	148
Linum perenne	*Linum*	Linaceae	500
Chamerion angustifolium	*Chamerion*	Onagraceae	500

Species	Genus	Family	Number of images
Dactylorhiza hatagirea	*Dactylorhiza*	Orchidaceae	355
Spiranthes sinensis	*Spiranthes*	Orchidaceae	500
Cymbaria daurica	*Cymbaria*	Orobanchaceae	650
Odontites vulgaris	*Odontites*	Orobanchaceae	352
Orobanche coerulescens	*Orobanche*	Orobanchaceae	650
Orobanche pycnostachya	*Orobanche*	Orobanchaceae	137
Pedicularis resupinata	*Pedicularis*	Orobanchaceae	500
Pedicularis spicata	*Pedicularis*	Orobanchaceae	500
Pedicularis striata	*Pedicularis*	Orobanchaceae	500
Paeonia lactiflora	*Paeonia*	Paeoniaceae	500
Oreomecon nudicaulis	*Oreomecon*	Papaveraceae	500
Parnassia palustris	*Parnassia*	Parnassiaceae	500
Linaria buriatica	*Linaria*	Plantaginaceae	26
Plantago asiatica	*Plantago*	Plantaginaceae	500
Plantago depressa	*Plantago*	Plantaginaceae	500
Pseudolysimachion dauricum	*Pseudolysimachion*	Plantaginaceae	94
Pseudolysimachion longifolium	*Pseudolysimachion*	Plantaginaceae	437
Limonium bicolor	*Limonium*	Plumbaginaceae	495
Achnatherum sibiricum	*Achnatherum*	Poaceae	38
Agropyron cristatum	*Agropyron*	Poaceae	650
Agrostis stolonifera	*Agrostis*	Poaceae	262
Beckmannia syzigachne	*Beckmannia*	Poaceae	500
Calamagrostis epigeios	*Calamagrostis*	Poaceae	500
Cleistogenes squarrosa	*Cleistogenes*	Poaceae	47
Koeleria macrantha	*Koeleria*	Poaceae	650
Leymus chinensis	*Leymus*	Poaceae	576
Leymus secalinus	*Leymus*	Poaceae	497
Neotrinia splendens	*Neotrinia*	Poaceae	150
Poa pratensis	*Poa*	Poaceae	647
Poa sphondylodes	*Poa*	Poaceae	387
Psammochloa villosa	*Psammochloa*	Poaceae	131
Stipa baicalensis	*Stipa*	Poaceae	17
Stipa capillata	*Stipa*	Poaceae	150
Stipa grandis	*Stipa*	Poaceae	127
Polygala tenuifolia	*Polygala*	Polygalaceae	500
Knorringia sibirica	*Knorringia*	Polygonaceae	500
Koenigia divaricata	*Koenigia*	Polygonaceae	500
Persicaria angustifolia	*Persicaria*	Polygonaceae	26
Persicaria lapathifolia	*Persicaria*	Polygonaceae	500
Polygonum aviculare	*Polygonum*	Polygonaceae	500
Androsace longifolia	*Androsace*	Primulaceae	150
Androsace septentrionalis	*Androsace*	Primulaceae	372
Lysimachia maritima	*Lysimachia*	Primulaceae	500
Primula farinosa	*Primula*	Primulaceae	500
Primula nutans	*Primula*	Primulaceae	396

Species	Genus	Family	Number of images
Anemone sylvestris	*Anemone*	Ranunculaceae	396
Aquilegia viridiflora	*Aquilegia*	Ranunculaceae	500
Caltha palustris	*Caltha*	Ranunculaceae	500
Clematis hexapetala	*Clematis*	Ranunculaceae	646
Delphinium grandiflorum	*Delphinium*	Ranunculaceae	500
Halerpestes ruthenica	*Halerpestes*	Ranunculaceae	371
Leptopyrum fumarioides	*Leptopyrum*	Ranunculaceae	306
Pulsatilla patens subsp. *multifida*	*Pulsatilla*	Ranunculaceae	14
Pulsatilla turczaninovii	*Pulsatilla*	Ranunculaceae	650
Ranunculus japonicus	*Ranunculus*	Ranunculaceae	500
Ranunculus repens	*Ranunculus*	Ranunculaceae	247
Thalictrum petaloideum	*Thalictrum*	Ranunculaceae	644
Thalictrum squarrosum	*Thalictrum*	Ranunculaceae	150
Trollius chinensis	*Trollius*	Ranunculaceae	500
Argentina anserina	*Argentina*	Rosaceae	500
Chamaerhodos canescens	*Chamaerhodos*	Rosaceae	237
Chamaerhodos erecta	*Chamaerhodos*	Rosaceae	439
Potentilla acaulis	*Potentilla*	Rosaceae	438
Potentilla chinensis	*Potentilla*	Rosaceae	150
Potentilla longifolia	*Potentilla*	Rosaceae	320
Potentilla multifida	*Potentilla*	Rosaceae	305
Potentilla tanacetifolia	*Potentilla*	Rosaceae	647
Potentilla verticillaris	*Potentilla*	Rosaceae	150
Sanguisorba officinalis	*Sanguisorba*	Rosaceae	500
Sibbaldia sericea	*Sibbaldia*	Rosaceae	24
Sibbaldianthe adpressa	*Sibbaldianthe*	Rosaceae	120
Sibbaldianthe bifurca	*Sibbaldianthe*	Rosaceae	500
Spiraea aquilegiifolia	*Spiraea*	Rosaceae	112
Spiraea media	*Spiraea*	Rosaceae	139
Spiraea ouensanensis	*Spiraea*	Rosaceae	500
Galium verum	*Galium*	Rubiaceae	647
Dictamnus dasycarpus	*Dictamnus*	Rutaceae	500
Haplophyllum dauricum	*Haplophyllum*	Rutaceae	559
Hyoscyamus niger	*Hyoscyamus*	Solanaceae	500
Stellera chamaejasme	*Stellera*	Thymelaeaceae	650
Urtica cannabina	*Urtica*	Urticaceae	500
Viburnum mongolicum	*Viburnum*	Viburnaceae	500

附表 2　测试物种及图片数量

Appendix table 2　The number of test species and their images

Species	Genus	Family	Number of images
Bassia prostrata	*Bassia*	Amaranthaceae	21
Grubovia dasyphylla	*Grubovia*	Amaranthaceae	3
Salsola collina	*Salsola*	Amaranthaceae	5
Teloxys aristata	*Teloxys*	Amaranthaceae	9

Species	Genus	Family	Number of images
Allium bidentatum	*Allium*	Amaryllidaceae	9
Allium mongolicum	*Allium*	Amaryllidaceae	13
Allium ramosum	*Allium*	Amaryllidaceae	13
Allium senescens	*Allium*	Amaryllidaceae	18
Allium tenuissimum	*Allium*	Amaryllidaceae	11
Bupleurum scorzonerifolium	*Bupleurum*	Apiaceae	13
Saposhnikovia divaricata	*Saposhnikovia*	Apiaceae	35
Cynanchum thesioides	*Cynanchum*	Apocynaceae	29
Anemarrhena asphodeloides	*Anemarrhena*	Asparagaceae	2
Asparagus dauricus	*Asparagus*	Asparagaceae	15
Artemisia desertorum	*Artemisia*	Asteraceae	1
Artemisia frigida	*Artemisia*	Asteraceae	16
Artemisia sieversiana	*Artemisia*	Asteraceae	4
Artemisia tanacetifolia	*Artemisia*	Asteraceae	1
Aster altaicus	*Aster*	Asteraceae	24
Echinops gmelinii	*Echinops*	Asteraceae	20
Ixeris chinensis subsp. *versicolor*	*Ixeris*	Asteraceae	9
Klasea centauroides	*Klasea*	Asteraceae	16
Olgaea lomonossowii	*Olgaea*	Asteraceae	16
Saussurea amara	*Saussurea*	Asteraceae	4
Saussurea salicifolia	*Saussurea*	Asteraceae	11
Taraxacum mongolicum	*Taraxacum*	Asteraceae	1
Lappula myosotis	*Lappula*	Boraginaceae	12
Tournefortia sibirica	*Tournefortia*	Boraginaceae	7
Dontostemon micranthus	*Dontostemon*	Brassicaceae	1
Lepidium apetalum	*Lepidium*	Brassicaceae	3
Adenophora stenanthina	*Adenophora*	Campanulaceae	14
Dianthus chinensis	*Dianthus*	Caryophyllaceae	11
Silene jeniseensis	*Silene*	Caryophyllaceae	19
Convolvulus ammannii	*Convolvulus*	Convolvulaceae	101
Convolvulus arvensis	*Convolvulus*	Convolvulaceae	9
Hylotelephium malacophyllum	*Hylotelephium*	Crassulaceae	17
Carex duriuscula	*Carex*	Cyperaceae	6
Euphorbia esula	*Euphorbia*	Euphorbiaceae	14
Astragalus dahuricus	*Astragalus*	Fabaceae	1
Astragalus galactites	*Astragalus*	Fabaceae	4
Astragalus laxmannii	*Astragalus*	Fabaceae	14
Astragalus melilotoides	*Astragalus*	Fabaceae	3
Astragalus membranaceus var. *mongholicus*	*Astragalus*	Fabaceae	35
Astragalus tenuis	*Astragalus*	Fabaceae	13
Caragana microphylla	*Caragana*	Fabaceae	13
Caragana stenophylla	*Caragana*	Fabaceae	19
Medicago ruthenica	*Medicago*	Fabaceae	12
Oxytropis myriophylla	*Oxytropis*	Fabaceae	10
Thermopsis lanceolata	*Thermopsis*	Fabaceae	24

Species	Genus	Family	Number of images
Vicia amoena	*Vicia*	Fabaceae	11
Gentiana dahurica	*Gentiana*	Gentianaceae	5
Gentiana squarrosa	*Gentiana*	Gentianaceae	8
Gentianopsis barbata	*Gentianopsis*	Gentianaceae	16
Erodium stephanianum	*Erodium*	Geraniaceae	4
Iris dichotoma	*Iris*	Iridaceae	12
Dracocephalum moldavica	*Dracocephalum*	Lamiaceae	16
Lagochilus ilicifolius	*Lagochilus*	Lamiaceae	61
Phlomoides tuberosa	*Phlomoides*	Lamiaceae	17
Schizonepeta tenuifolia	*Schizonepeta*	Lamiaceae	15
Scutellaria scordiifolia	*Scutellaria*	Lamiaceae	31
Scutellaria viscidula	*Scutellaria*	Lamiaceae	47
Lilium pumilum	*Lilium*	Liliaceae	20
Cymbaria daurica	*Cymbaria*	Orobanchaceae	89
Orobanche coerulescens	*Orobanche*	Orobanchaceae	6
Orobanche pycnostachya	*Orobanche*	Orobanchaceae	23
Linaria buriatica	*Linaria*	Plantaginaceae	36
Pseudolysimachion dauricum	*Pseudolysimachion*	Plantaginaceae	13
Limonium bicolor	*Limonium*	Plumbaginaceae	29
Agropyron cristatum	*Agropyron*	Poaceae	25
Leymus chinensis	*Leymus*	Poaceae	35
Neotrinia splendens	*Neotrinia*	Poaceae	3
Poa sphondylodes	*Poa*	Poaceae	2
Stipa baicalensis	*Stipa*	Poaceae	2
Polygala tenuifolia	*Polygala*	Polygalaceae	3
Koenigia divaricata	*Koenigia*	Polygonaceae	13
Androsace longifolia	*Androsace*	Primulaceae	7
Clematis hexapetala	*Clematis*	Ranunculaceae	25
Delphinium grandiflorum	*Delphinium*	Ranunculaceae	8
Pulsatilla patens subsp. *multifida*	*Pulsatilla*	Ranunculaceae	2
Pulsatilla turczaninovii	*Pulsatilla*	Ranunculaceae	29
Thalictrum petaloideum	*Thalictrum*	Ranunculaceae	14
Potentilla acaulis	*Potentilla*	Rosaceae	13
Potentilla tanacetifolia	*Potentilla*	Rosaceae	8
Potentilla verticillaris	*Potentilla*	Rosaceae	3
Sanguisorba officinalis	*Sanguisorba*	Rosaceae	18
Sibbaldia sericea	*Sibbaldia*	Rosaceae	22
Sibbaldianthe adpressa	*Sibbaldianthe*	Rosaceae	7
Sibbaldianthe bifurca	*Sibbaldianthe*	Rosaceae	27
Galium verum	*Galium*	Rubiaceae	28
Haplophyllum dauricum	*Haplophyllum*	Rutaceae	64

附表3 216种草地植物识别模型和15K 智能识别模型对野外拍摄草地植物的识别结果

Appendix table 3 The results of 216 species grassland plants intelligent recognition model and 15K intelligent recognition model in identifying grassland plants captured in the field

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
2	*Adenophora stenanthina*	√	√	√	√	√	√	×	×	×	×	×	×
3	*Adenophora stenanthina*	√	√	√	√	√	√	×	×	×	√	×	√
4	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
5	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
6	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
7	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
8	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
9	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
10	*Adenophora stenanthina*	√	√	√	√	√	√	×	√	√	√	√	√
11	*Adenophora stenanthina*	√	√	√	√	√	√	×	×	×	×	×	×
12	*Adenophora stenanthina*	√	√	√	√	√	√	√	√	√	√	√	√
13	*Adenophora stenanthina*	√	√	√	√	√	√	√	√	√	√	√	√
14	*Adenophora stenanthina*	√	√	√	√	√	√	×	×	×	×	×	×
15	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
16	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
17	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
18	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
19	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
20	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
21	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
22	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
23	*Agropyron cristatum*	×	√	×	√	√	√	×	√	×	√	√	√
24	*Agropyron cristatum*	×	√	×	√	√	√	×	×	×	×	√	√
25	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
26	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
27	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
28	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
29	*Agropyron cristatum*	√	√	√	√	√	√	×	√	×	√	×	√
30	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
31	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
32	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
33	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
34	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
35	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
36	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
37	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
38	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
39	*Agropyron cristatum*	√	√	√	√	√	√	√	√	√	√	√	√
40	*Allium bidentatum*	√	√	√	√	√	√	×	√	√	√	√	√
41	*Allium bidentatum*	√	√	√	√	√	√	×	√	√	√	√	√
42	*Allium bidentatum*	√	√	√	√	√	√	×	×	√	√	√	√
43	*Allium bidentatum*	×	√	√	√	√	√	×	×	×	×	×	×
44	*Allium bidentatum*	×	√	√	√	√	√	×	√	√	√	√	√
45	*Allium bidentatum*	×	√	√	√	√	√	×	√	√	√	√	√
46	*Allium bidentatum*	×	√	√	√	√	√	×	√	√	√	√	√
47	*Allium bidentatum*	×	√	√	√	√	√	×	√	√	√	√	√
48	*Allium bidentatum*	×	√	√	√	√	√	×	√	√	√	√	√
49	*Allium mongolicum*	×	√	√	√	√	√	√	√	√	√	√	√
50	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
51	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
52	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
53	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
54	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
55	*Allium mongolicum*	√	√	√	√	√	√	×	√	√	√	√	√
56	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
57	*Allium mongolicum*	√	√	√	√	√	√	×	√	×	√	×	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
58	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
59	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
60	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
61	*Allium mongolicum*	√	√	√	√	√	√	√	√	√	√	√	√
62	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
63	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
64	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
65	*Allium ramosum*	√	√	√	√	√	√	×	√	√	√	√	√
66	*Allium ramosum*	√	√	√	√	√	√	×	√	√	√	√	√
67	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
68	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
69	*Allium ramosum*	√	√	√	√	√	√	×	√	√	√	√	√
70	*Allium ramosum*	√	√	√	√	√	√	×	√	√	√	√	√
71	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
72	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
73	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
74	*Allium ramosum*	√	√	√	√	√	√	√	√	√	√	√	√
75	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
76	*Allium senescens*	√	√	√	√	√	√	×	√	√	√	√	√
77	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
78	*Allium senescens*	√	√	√	√	√	√	×	√	√	√	√	√
79	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
80	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
81	*Allium senescens*	√	√	√	√	√	√	×	√	√	√	√	√
82	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
83	*Allium senescens*	√	√	√	√	√	√	×	√	√	√	√	√
84	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
85	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
86	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
87	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
88	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
89	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
90	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
91	*Allium senescens*	√	√	√	√	√	√	×	√	√	√	√	√
92	*Allium senescens*	√	√	√	√	√	√	√	√	√	√	√	√
93	*Allium tenuissimum*	×	×	√	√	√	√	×	√	√	√	√	√
94	*Allium tenuissimum*	√	√	√	√	√	√	×	×	√	√	√	√
95	*Allium tenuissimum*	×	×	×	×	×	×	×	√	√	√	√	√
96	*Allium tenuissimum*	×	×	√	√	√	√	×	√	×	√	×	√
97	*Allium tenuissimum*	×	×	×	√	×	√	×	√	√	√	√	√
98	*Allium tenuissimum*	×	×	×	√	×	√	√	√	√	√	√	√
99	*Allium tenuissimum*	×	√	√	√	√	√	×	√	√	√	√	√
100	*Allium tenuissimum*	×	×	×	√	×	√	√	√	√	√	√	√
101	*Allium tenuissimum*	×	×	√	√	√	√	×	√	√	√	√	√
102	*Allium tenuissimum*	×	√	√	√	√	√	×	×	√	√	√	√
103	*Allium tenuissimum*	×	√	√	√	√	√	×	√	√	√	√	√
104	*Androsace longifolia*	√	√	√	√	√	√	√	√	√	√	√	√
105	*Androsace longifolia*	×	√	×	√	×	√	×	×	×	×	√	√
106	*Androsace longifolia*	×	√	×	√	×	√	×	×	×	×	×	√
107	*Androsace longifolia*	×	√	×	√	×	√	√	√	√	√	√	√
108	*Androsace longifolia*	√	√	√	√	√	√	×	×	×	×	√	√
109	*Androsace longifolia*	√	√	√	√	√	√	×	×	×	×	×	√
110	*Androsace longifolia*	×	×	×	×	×	×	×	×	×	×	×	×
111	*Anemarrhena asphodeloides*	√	√	√	√	√	√	√	√	√	√	√	√
112	*Anemarrhena asphodeloides*	√	√	√	√	√	√	√	√	√	√	√	√
113	*Artemisia desertorum*	×	√	×	√	×	√	×	√	√	√	√	√
114	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
115	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
116	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
117	*Artemisia frigida*	√	√	√	√	√	√	×	√	√	√	√	√
118	*Artemisia frigida*	√	√	√	√	√	√	×	√	√	√	√	√
119	*Artemisia frigida*	×	×	×	×	×	×	√	√	√	√	√	√
120	*Artemisia frigida*	×	×	×	×	×	×	×	√	√	√	√	√
121	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
122	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
123	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
124	*Artemisia frigida*	√	√	√	√	√	√	×	√	√	√	√	√
125	*Artemisia frigida*	√	√	√	√	√	√	×	√	√	√	√	√
126	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
127	*Artemisia frigida*	√	√	√	√	√	√	×	√	√	√	√	√
128	*Artemisia frigida*	√	√	√	√	√	√	√	√	√	√	√	√
129	*Artemisia frigida*	√	√	√	√	√	√	×	√	√	√	√	√
130	*Artemisia sieversiana*	√	√	√	√	√	√	√	√	√	√	√	√
131	*Artemisia sieversiana*	√	√	√	√	√	√	√	√	√	√	√	√
132	*Artemisia sieversiana*	√	√	√	√	√	√	√	√	√	√	√	√
133	*Artemisia sieversiana*	√	√	√	√	√	√	√	√	√	√	√	√
134	*Artemisia tanacetifolia*	×	√	×	√	×	√	×	×	√	√	√	√
135	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
136	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
137	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
138	*Asparagus dauricus*	√	√	√	√	√	√	×	×	√	√	√	√
139	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
140	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
141	*Asparagus dauricus*	√	√	√	√	√	√	×	×	×	√	×	√
142	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
143	*Asparagus dauricus*	√	√	√	√	√	√	×	×	×	×	×	×
144	*Asparagus dauricus*	√	√	√	√	√	√	×	×	×	×	×	×

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
145	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
146	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
147	*Asparagus dauricus*	×	×	×	×	×	×	√	√	√	√	√	√
148	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
149	*Asparagus dauricus*	√	√	√	√	√	√	√	√	√	√	√	√
150	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
151	*Aster altaicus*	√	√	√	√	√	√	×	×	√	√	√	√
152	*Aster altaicus*	√	√	√	√	√	√	×	×	√	√	√	√
153	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
154	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
155	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
156	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
157	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
158	*Aster altaicus*	√	√	√	√	√	√	×	×	√	√	√	√
159	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
160	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
161	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
162	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
163	*Aster altaicus*	√	√	√	√	√	√	×	×	√	√	√	√
164	*Aster altaicus*	√	√	√	√	√	√	×	×	√	√	√	√
165	*Aster altaicus*	×	×	×	×	√	√	×	√	√	√	√	√
166	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
167	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
168	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
169	*Aster altaicus*	√	√	√	√	√	√	×	√	×	√	√	√
170	*Aster altaicus*	√	√	√	√	√	√	×	√	√	√	√	√
171	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
172	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
173	*Aster altaicus*	√	√	√	√	√	√	√	√	√	√	√	√
174	*Astragalus dahuricus*	×	√	√	√	√	√	×	×	×	√	√	√
175	*Astragalus galactites*	×	×	×	√	×	√	√	√	√	√	√	√
176	*Astragalus galactites*	√	√	√	√	√	√	√	√	√	√	√	√
177	*Astragalus galactites*	√	√	√	√	√	√	√	√	√	√	√	√
178	*Astragalus galactites*	×	√	√	√	√	√	√	√	√	√	√	√
179	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
180	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
181	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
182	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
183	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
184	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
185	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
186	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
187	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
188	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
189	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
190	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
191	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
192	*Astragalus laxmannii*	√	√	√	√	√	√	√	√	√	√	√	√
193	*Astragalus melilotoides*	√	√	√	√	√	√	×	√	×	√	√	√
194	*Astragalus melilotoides*	√	√	√	√	√	√	√	√	√	√	√	√
195	*Astragalus melilotoides*	×	√	×	√	×	√	√	√	√	√	√	√
196	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	×	×	×	×	×	×	×	×
197	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	×	×	×	×
198	*Astragalus membranaceus* var. *mongholicus*	×	√	×	√	×	√	×	×	×	×	×	×
199	*Astragalus membranaceus* var. *mongholicus*	×	√	√	√	√	√	×	×	×	×	×	×
200	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	×	×	×	×	×	×	×	×
201	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	×	×	×	×
202	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
203	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
204	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
205	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
206	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
207	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	√	√	×	√	√	√	√	√
208	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	×	×	×	×	√	√	√	√
209	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	√	√	√	√
210	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	√	√	√	√
211	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	√	√	√	√
212	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	×	√	×	×	√	√	√	√
213	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	×	×	×	×	√	√	√	√
214	*Astragalus membranaceus* var. *mongholicus*	×	×	×	×	×	×	×	√	×	√	√	√
215	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
216	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
217	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
218	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
219	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	√	√	√	√
220	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	√	√	√	√	√	√
221	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
222	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
223	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
224	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
225	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
226	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
227	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	√	√	√	√	√
228	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	√	√	√	√
229	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	×	×	×	×
230	*Astragalus membranaceus* var. *mongholicus*	√	√	√	√	√	√	×	×	×	×	×	×
231	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
232	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
233	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
234	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
235	*Astragalus tenuis*	√	√	√	√	√	√	×	×	×	√	×	√
236	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
237	*Astragalus tenuis*	×	√	√	√	√	√	×	×	×	√	×	√
238	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
239	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
240	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
241	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
242	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
243	*Astragalus tenuis*	×	√	√	√	√	√	×	√	√	√	√	√
244	*Bassia prostrata*	×	√	×	√	×	√	√	√	√	√	√	√
245	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
246	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
247	*Bassia prostrata*	√	√	√	√	√	√	×	×	×	×	×	×
248	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
249	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
250	*Bassia prostrata*	×	√	×	√	√	√	×	√	×	√	√	√
251	*Bassia prostrata*	√	√	√	√	√	√	×	√	×	√	×	√
252	*Bassia prostrata*	√	√	√	√	√	√	×	√	×	√	×	√
253	*Bassia prostrata*	√	√	√	√	√	√	×	√	√	√	√	√
254	*Bassia prostrata*	√	√	√	√	√	√	×	√	×	√	√	√
255	*Bassia prostrata*	√	√	√	√	√	√	×	×	×	×	√	√
256	*Bassia prostrata*	√	√	√	√	√	√	×	×	√	√	√	√
257	*Bassia prostrata*	√	√	√	√	√	√	×	√	×	√	√	√
258	*Bassia prostrata*	√	√	√	√	√	√	×	×	×	×	×	×
259	*Bassia prostrata*	√	√	√	√	√	√	×	√	×	√	√	√
260	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
261	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
262	*Bassia prostrata*	√	√	√	√	√	√	√	√	√	√	√	√
263	*Bassia prostrata*	×	√	×	√	×	√	×	√	×	√	√	√
264	*Bassia prostrata*	√	√	√	√	√	√	×	√	×	√	√	√
265	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	×	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
266	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	×	√	√	√	√	√
267	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
268	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
269	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	×	√	√	√	√	√
270	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	×	√	×	√	√	√
271	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	×	√	√	√	√	√
272	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
273	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
274	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
275	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
276	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
277	*Bupleurum scorzonerifolium*	√	√	√	√	√	√	√	√	√	√	√	√
278	*Caragana microphylla*	×	√	√	√	√	√	×	×	√	√	√	√
279	*Caragana microphylla*	×	√	√	√	√	√	√	√	√	√	√	√
280	*Caragana microphylla*	×	√	√	√	√	√	×	×	×	√	√	√
281	*Caragana microphylla*	√	√	√	√	√	√	×	×	×	√	√	√
282	*Caragana microphylla*	√	√	√	√	√	√	×	×	×	√	√	√
283	*Caragana microphylla*	√	√	√	√	√	√	×	√	√	√	√	√
284	*Caragana microphylla*	×	√	×	√	√	√	×	√	√	√	√	√
285	*Caragana microphylla*	×	×	×	×	√	√	×	√	√	√	√	√
286	*Caragana microphylla*	√	√	√	√	√	√	×	√	√	√	√	√
287	*Caragana microphylla*	×	√	√	√	√	√	×	√	√	√	√	√
288	*Caragana microphylla*	×	×	×	×	√	√	×	√	√	√	√	√
289	*Caragana microphylla*	√	√	√	√	√	√	×	×	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
290	*Caragana microphylla*	×	√	√	√	√	√	×	×	×	√	√	√
291	*Caragana stenophylla*	√	√	√	√	√	√	×	√	×	√	×	√
292	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
293	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
294	*Caragana stenophylla*	×	√	√	√	√	√	√	√	√	√	√	√
295	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
296	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
297	*Caragana stenophylla*	×	×	×	√	×	√	×	√	×	√	×	√
298	*Caragana stenophylla*	×	×	√	√	√	√	√	√	√	√	√	√
299	*Caragana stenophylla*	√	√	√	√	√	√	×	√	×	√	×	√
300	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
301	*Caragana stenophylla*	√	√	√	√	√	√	×	×	×	×	×	×
302	*Caragana stenophylla*	√	√	√	√	√	√	×	×	×	×	×	×
303	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
304	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
305	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
306	*Caragana stenophylla*	√	√	√	√	√	√	√	√	√	√	√	√
307	*Caragana stenophylla*	√	√	√	√	√	√	×	×	×	×	×	×
308	*Caragana stenophylla*	√	√	√	√	√	√	×	×	×	×	×	×
309	*Caragana stenophylla*	√	√	√	√	√	√	×	×	×	×	×	√
310	*Carex duriuscula*	√	√	√	√	√	√	√	√	√	√	√	√
311	*Carex duriuscula*	√	√	√	√	√	√	√	√	√	√	√	√
312	*Carex duriuscula*	√	√	√	√	√	√	×	√	×	√	√	√
313	*Carex duriuscula*	√	√	√	√	√	√	×	×	×	×	√	√
314	*Carex duriuscula*	√	√	√	√	√	√	×	×	×	×	√	√
315	*Carex duriuscula*	√	√	√	√	√	√	×	√	×	√	√	√
316	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
317	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
318	*Clematis hexapetala*	√	√	√	√	√	√	×	√	×	√	×	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
319	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
320	*Clematis hexapetala*	√	√	√	√	√	√	×	√	×	√	×	√
321	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
322	*Clematis hexapetala*	×	√	×	√	×	√	×	√	√	√	√	√
323	*Clematis hexapetala*	√	√	√	√	√	√	×	√	×	√	×	√
324	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
325	*Clematis hexapetala*	√	√	√	√	√	√	×	×	×	×	×	√
326	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
327	*Clematis hexapetala*	√	√	√	√	√	√	×	×	×	√	×	√
328	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
329	*Clematis hexapetala*	√	√	√	√	√	√	×	×	×	×	×	×
330	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
331	*Clematis hexapetala*	√	√	√	√	√	√	×	×	×	×	×	×
332	*Clematis hexapetala*	√	√	√	√	√	√	×	√	×	√	×	√
333	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
334	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
335	*Clematis hexapetala*	×	×	×	×	×	×	√	√	√	√	√	√
336	*Clematis hexapetala*	×	×	×	×	×	×	×	×	×	×	×	×
337	*Clematis hexapetala*	√	√	√	√	√	√	√	√	√	√	√	√
338	*Clematis hexapetala*	√	√	√	√	√	√	×	×	×	×	×	×
339	*Clematis hexapetala*	×	×	×	×	×	×	√	√	√	√	√	√
340	*Clematis hexapetala*	×	×	×	×	×	×	×	×	√	√	√	√
341	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
342	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
343	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
344	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
345	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
346	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
347	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
348	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
349	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
350	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
351	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
352	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
353	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
354	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
355	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
356	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
357	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
358	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
359	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
360	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
361	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
362	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
363	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
364	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
365	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
366	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
367	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
368	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
369	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
370	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
371	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
372	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
373	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
374	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
375	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
376	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
377	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
378	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
379	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
380	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
381	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
382	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
383	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
384	*Convolvulus ammannii*	√	√	√	√	√	√	×	√	×	√	×	√
385	*Convolvulus ammannii*	×	×	×	×	×	×	√	√	√	√	√	√
386	*Convolvulus ammannii*	×	×	×	×	×	×	√	√	√	√	√	√
387	*Convolvulus ammannii*	×	×	×	×	×	×	√	√	√	√	√	√
388	*Convolvulus ammannii*	×	×	×	×	×	×	×	√	×	√	×	√
389	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
390	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
391	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
392	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
393	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
394	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
395	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
396	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
397	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
398	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
399	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
400	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
401	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
402	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
403	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
404	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
405	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
406	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
407	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
408	*Convolvulus ammannii*	×	×	×	×	×	×	×	√	×	√	×	√
409	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
410	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
411	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
412	*Convolvulus ammannii*	×	×	×	×	×	×	√	√	√	√	√	√
413	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
414	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
415	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	√	√	√	√
416	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
417	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
418	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
419	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
420	*Convolvulus ammannii*	×	×	×	×	×	×	√	√	√	√	√	√
421	*Convolvulus ammannii*	×	×	×	×	×	×	√	√	√	√	√	√
422	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
423	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
424	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
425	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
426	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
427	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
428	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
429	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
430	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
431	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
432	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
433	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
434	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
435	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
436	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
437	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
438	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
439	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
440	*Convolvulus ammannii*	√	√	√	√	√	√	√	√	√	√	√	√
441	*Convolvulus ammannii*	√	√	√	√	√	√	×	×	×	×	×	×
442	*Convolvulus arvensis*	√	√	√	√	√	√	√	√	√	√	√	√
443	*Convolvulus arvensis*	√	√	√	√	√	√	√	√	√	√	√	√
444	*Convolvulus arvensis*	√	√	√	√	√	√	×	√	×	√	×	√
445	*Convolvulus arvensis*	√	√	√	√	√	√	×	√	√	√	√	√
446	*Convolvulus arvensis*	√	√	√	√	√	√	×	√	√	√	√	√
447	*Convolvulus arvensis*	√	√	√	√	√	√	×	√	√	√	√	√
448	*Convolvulus arvensis*	√	√	√	√	√	√	×	√	√	√	√	√
449	*Convolvulus arvensis*	√	√	√	√	√	√	√	√	√	√	√	√
450	*Convolvulus arvensis*	√	√	√	√	√	√	×	√	×	√	×	√
451	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
452	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
453	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
454	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
455	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
456	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
457	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
458	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
459	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
460	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
461	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
462	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
463	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
464	*Cymbaria daurica*	√	√	√	√	√	√	×	√	×	√	×	√
465	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
466	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
467	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
468	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
469	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
470	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
471	*Cymbaria daurica*	√	√	√	√	√	√	×	√	×	√	×	√
472	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
473	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
474	*Cymbaria daurica*	×	√	×	√	×	√	√	√	√	√	√	√
475	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
476	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
477	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
478	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
479	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
480	*Cymbaria daurica*	×	×	×	×	×	×	√	√	√	√	√	√
481	*Cymbaria daurica*	×	√	×	√	×	√	√	√	√	√	√	√
482	*Cymbaria daurica*	×	×	×	×	×	×	√	√	√	√	√	√
483	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
484	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
485	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
486	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
487	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
488	*Cymbaria daurica*	×	√	×	√	×	√	√	√	√	√	√	√
489	*Cymbaria daurica*	×	√	×	√	×	√	√	√	√	√	√	√
490	*Cymbaria daurica*	×	√	×	√	×	√	√	√	√	√	√	√
491	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
492	*Cymbaria daurica*	×	×	×	×	×	×	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
493	*Cymbaria daurica*	×	×	×	×	×	×	√	√	√	√	√	√
494	*Cymbaria daurica*	×	√	×	√	×	√	√	√	√	√	√	√
495	*Cymbaria daurica*	√	√	√	√	√	√	×	√	×	√	×	√
496	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
497	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
498	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
499	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
500	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
501	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
502	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
503	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
504	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
505	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
506	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
507	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
508	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
509	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
510	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
511	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
512	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
513	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
514	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
515	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
516	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
517	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
518	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
519	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
520	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
521	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
522	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
523	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
524	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
525	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
526	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
527	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
528	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
529	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
530	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
531	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
532	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
533	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
534	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
535	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
536	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
537	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
538	*Cymbaria daurica*	√	√	√	√	√	√	√	√	√	√	√	√
539	*Cymbaria daurica*	√	√	√	√	√	√	×	×	×	×	×	×
540	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
541	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
542	*Cynanchum thesioides*	√	√	√	√	√	√	×	×	×	×	×	√
543	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
544	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
545	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
546	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
547	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
548	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
549	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
550	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
551	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
552	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
553	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
554	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
555	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
556	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
557	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
558	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
559	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
560	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
561	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
562	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
563	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
564	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
565	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
566	*Cynanchum thesioides*	√	√	√	√	√	√	×	√	×	√	×	√
567	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
568	*Cynanchum thesioides*	√	√	√	√	√	√	√	√	√	√	√	√
569	*Delphinium grandiflorum*	√	√	√	√	√	√	√	√	√	√	√	√
570	*Delphinium grandiflorum*	√	√	√	√	√	√	×	√	×	√	×	√
571	*Delphinium grandiflorum*	√	√	√	√	√	√	×	√	√	√	√	√
572	*Delphinium grandiflorum*	√	√	√	√	√	√	√	√	√	√	√	√
573	*Delphinium grandiflorum*	√	√	√	√	√	√	√	√	√	√	√	√
574	*Delphinium grandiflorum*	√	√	√	√	√	√	×	√	√	√	√	√
575	*Delphinium grandiflorum*	√	√	√	√	√	√	√	√	√	√	√	√
576	*Delphinium grandiflorum*	√	√	√	√	√	√	√	√	√	√	√	√
577	*Dianthus chinensis*	√	√	√	√	√	√	×	×	×	×	×	×
578	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
579	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
580	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
581	*Dianthus chinensis*	×	×	×	×	×	×	×	√	×	√	√	√
582	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
583	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
584	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
585	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
586	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
587	*Dianthus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
588	*Dontostemon micranthus*	×	×	×	√	√	√	×	×	×	×	√	√
589	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
590	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
591	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
592	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
593	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
594	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
595	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
596	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
597	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
598	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
599	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
600	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
601	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
602	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
603	*Dracocephalum moldavica*	√	√	√	√	√	√	√	√	√	√	√	√
604	*Dracocephalum moldavica*	×	×	×	×	√	√	×	×	×	×	×	√
605	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
606	*Echinops gmelinii*	√	√	√	√	√	√	×	√	×	√	×	√
607	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
608	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
609	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
610	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
611	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
612	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
613	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
614	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
615	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
616	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
617	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
618	*Echinops gmelinii*	√	√	√	√	√	√	×	√	√	√	√	√
619	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
620	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
621	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
622	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
623	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
624	*Echinops gmelinii*	√	√	√	√	√	√	√	√	√	√	√	√
625	*Erodium stephanianum*	√	√	√	√	√	√	√	√	√	√	√	√
626	*Erodium stephanianum*	√	√	√	√	√	√	√	√	√	√	√	√
627	*Erodium stephanianum*	√	√	√	√	√	√	√	√	√	√	√	√
628	*Erodium stephanianum*	√	√	√	√	√	√	√	√	√	√	√	√
629	*Euphorbia esula*	√	√	√	√	√	√	×	×	√	√	√	√
630	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
631	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
632	*Euphorbia esula*	√	√	√	√	√	√	√	√	√	√	√	√
633	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
634	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
635	*Euphorbia esula*	√	√	√	√	√	√	√	√	√	√	√	√
636	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
637	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
638	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
639	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
640	*Euphorbia esula*	√	√	√	√	√	√	×	√	√	√	√	√
641	*Euphorbia esula*	√	√	√	√	√	√	√	√	√	√	√	√
642	*Euphorbia esula*	√	√	√	√	√	√	√	√	√	√	√	√
643	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
644	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
645	*Galium verum*	×	√	×	√	×	√	×	×	×	×	×	×
646	*Galium verum*	√	√	√	√	√	√	×	√	×	√	×	√
647	*Galium verum*	×	×	×	×	×	×	×	×	×	×	×	×
648	*Galium verum*	×	×	×	×	×	×	√	√	√	√	√	√
649	*Galium verum*	×	×	×	×	×	×	×	×	×	×	×	×
650	*Galium verum*	×	×	×	×	×	×	×	×	×	×	×	×
651	*Galium verum*	×	×	×	×	×	×	√	√	√	√	√	√
652	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
653	*Galium verum*	√	√	√	√	√	√	×	√	×	√	×	√
654	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
655	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
656	*Galium verum*	√	√	√	√	√	√	×	√	×	√	×	√
657	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
658	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
659	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
660	*Galium verum*	√	√	√	√	√	√	×	√	×	√	×	√
661	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
662	*Galium verum*	×	√	×	√	×	√	×	√	×	√	×	√
663	*Galium verum*	√	√	√	√	√	√	×	√	×	√	×	√
664	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
665	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
666	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
667	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
668	*Galium verum*	√	√	√	√	√	√	√	√	√	√	√	√
669	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
670	*Galium verum*	√	√	√	√	√	√	×	×	×	×	×	×
671	*Galium verum*	×	×	×	×	×	×	×	×	×	×	×	×
672	*Gentiana dahurica*	√	√	√	√	√	√	√	√	√	√	√	√
673	*Gentiana dahurica*	√	√	√	√	√	√	√	√	√	√	√	√
674	*Gentiana dahurica*	√	√	√	√	√	√	√	√	√	√	√	√
675	*Gentiana dahurica*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
676	*Gentiana dahurica*	√	√	√	√	√	√	√	√	√	√	√	√
677	*Gentiana squarrosa*	√	√	√	√	√	√	√	√	√	√	√	√
678	*Gentiana squarrosa*	√	√	√	√	√	√	×	×	×	√	×	√
679	*Gentiana squarrosa*	√	√	√	√	√	√	×	√	√	√	√	√
680	*Gentiana squarrosa*	√	√	√	√	√	√	×	√	√	√	√	√
681	*Gentiana squarrosa*	√	√	√	√	√	√	×	√	√	√	√	√
682	*Gentiana squarrosa*	√	√	√	√	√	√	×	√	√	√	√	√
683	*Gentiana squarrosa*	√	√	√	√	√	√	×	√	√	√	√	√
684	*Gentiana squarrosa*	√	√	√	√	√	√	×	√	×	×	√	√
685	*Gentianopsis barbata*	√	√	√	√	√	√	×	√	√	√	√	√
686	*Gentianopsis barbata*	√	√	√	√	√	√	×	√	×	√	×	√
687	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
688	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
689	*Gentianopsis barbata*	√	√	√	√	√	√	×	√	√	√	√	√
690	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
691	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
692	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
693	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
694	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
695	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
696	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
697	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
698	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
699	*Gentianopsis barbata*	√	√	√	√	√	√	√	√	√	√	√	√
700	*Gentianopsis barbata*	√	√	√	√	√	√	×	×	×	×	×	×
701	*Grubovia dasyphylla*	×	√	×	√	×	√	√	√	√	√	√	√
702	*Grubovia dasyphylla*	√	√	√	√	√	√	×	√	×	√	√	√
703	*Grubovia dasyphylla*	×	√	×	√	×	√	√	√	×	×	×	×
704	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
705	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
706	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
707	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
708	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
709	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
710	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
711	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
712	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
713	*Haplophyllum dauricum*	√	√	√	√	√	√	×	√	×	√	×	√
714	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
715	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
716	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
717	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
718	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
719	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
720	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
721	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
722	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
723	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
724	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
725	*Haplophyllum dauricum*	√	√	√	√	√	√	×	×	×	×	×	√
726	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
727	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
728	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
729	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
730	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
731	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
732	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
733	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
734	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
735	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
736	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
737	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
738	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
739	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
740	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
741	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
742	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
743	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
744	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
745	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
746	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
747	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
748	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
749	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
750	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
751	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
752	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
753	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
754	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
755	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
756	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
757	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
758	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
759	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
760	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
761	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
762	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
763	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
764	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
765	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
766	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
767	*Haplophyllum dauricum*	√	√	√	√	√	√	√	√	×	×	×	×
768	*Hylotelephium malacophyllum*	√	√	√	√	√	√	×	√	×	√	×	√
769	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
770	*Hylotelephium malacophyllum*	√	√	√	√	√	√	×	√	×	√	×	√
771	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
772	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
773	*Hylotelephium malacophyllum*	√	√	√	√	√	√	×	√	×	√	×	√
774	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
775	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
776	*Hylotelephium malacophyllum*	√	√	√	√	√	√	×	√	×	√	×	√
777	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
778	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
779	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
780	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
781	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
782	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
783	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	√	√	√	√
784	*Hylotelephium malacophyllum*	√	√	√	√	√	√	√	√	×	×	×	×
785	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
786	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
787	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
788	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
789	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
790	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
791	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
792	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
793	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
794	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√
795	*Iris dichotoma*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
796	*Iris dichotoma*	√	√	√	√	√	√	√	√	×	×	×	×
797	*Ixeris chinensis subsp. versicolor*	×	√	√	√	√	√	×	×	×	×	×	×
798	*Ixeris chinensis subsp. versicolor*	×	√	√	√	√	√	×	×	×	×	×	×
799	*Ixeris chinensis subsp. versicolor*	√	√	√	√	√	√	×	×	×	×	×	×
800	*Ixeris chinensis subsp. versicolor*	√	√	√	√	√	√	×	×	×	×	×	×
801	*Ixeris chinensis subsp. versicolor*	√	√	√	√	√	√	×	×	×	×	×	×
802	*Ixeris chinensis subsp. versicolor*	×	√	√	√	√	√	×	×	×	×	×	×
803	*Ixeris chinensis subsp. versicolor*	×	√	√	√	√	√	×	×	×	×	×	×
804	*Ixeris chinensis subsp. versicolor*	√	√	√	√	√	√	×	×	×	×	×	×
805	*Ixeris chinensis subsp. versicolor*	√	√	√	√	√	√	×	×	×	×	×	×
806	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
807	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
808	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
809	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
810	*Klasea centauroides*	√	√	√	√	√	√	×	√	×	√	√	√
811	*Klasea centauroides*	√	√	√	√	√	√	×	√	×	√	√	√
812	*Klasea centauroides*	√	√	√	√	√	√	×	√	×	√	√	√
813	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
814	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
815	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
816	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
817	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
818	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
819	*Klasea centauroides*	√	√	√	√	√	√	×	√	×	√	√	√
820	*Klasea centauroides*	√	√	√	√	√	√	√	√	√	√	√	√
821	*Klasea centauroides*	√	√	√	√	√	√	√	√	×	×	×	×
822	*Koenigia divaricata*	×	√	×	√	√	√	×	√	×	√	√	√
823	*Koenigia divaricata*	×	√	×	√	√	√	×	×	×	×	√	√
824	*Koenigia divaricata*	×	√	×	√	√	√	×	×	×	×	√	√
825	*Koenigia divaricata*	×	√	×	√	√	√	×	×	×	√	×	√
826	*Koenigia divaricata*	√	√	√	√	√	√	×	×	×	×	√	√
827	*Koenigia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
828	*Koenigia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
829	*Koenigia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
830	*Koenigia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
831	*Koenigia divaricata*	×	√	×	√	√	√	√	√	√	√	√	√
832	*Koenigia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
833	*Koenigia divaricata*	√	√	√	√	√	√	×	√	√	√	√	√
834	*Koenigia divaricata*	×	√	×	√	×	√	√	√	×	×	×	×
835	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
836	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
837	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	×	×	×	×	√
838	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	×	×	×	×	×
839	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	×	×	×	×	×
840	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
841	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
842	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
843	*Lagochilus ilicifolius*	×	×	×	×	×	×	√	√	√	√	√	√
844	*Lagochilus ilicifolius*	×	√	×	√	×	√	√	√	√	√	√	√
845	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
846	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
847	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
848	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
849	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
850	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
851	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
852	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
853	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
854	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	×	√
855	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
856	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
857	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
858	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
859	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
860	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	×	√
861	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
862	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
863	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
864	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
865	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
866	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
867	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
868	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
869	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
870	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
871	*Lagochilus ilicifolius*	×	√	×	√	×	√	√	√	√	√	√	√
872	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
873	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
874	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
875	*Lagochilus ilicifolius*	×	√	×	√	×	√	√	√	√	√	√	√
876	*Lagochilus ilicifolius*	×	√	×	√	×	√	√	√	√	√	√	√
877	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
878	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	×	×	×	×	×
879	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
880	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
881	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
882	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
883	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
884	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
885	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
886	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
887	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
888	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
889	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
890	*Lagochilus ilicifolius*	√	√	√	√	√	√	×	√	×	√	√	√
891	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
892	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
893	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
894	*Lagochilus ilicifolius*	√	√	√	√	√	√	√	√	√	√	√	√
895	*Lappula myosotis*	√	√	√	√	√	√	×	×	×	×	×	×
896	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
897	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
898	*Lappula myosotis*	√	√	√	√	√	√	√	√	√	√	√	√
899	*Lappula myosotis*	√	√	√	√	√	√	×	√	×	√	√	√
900	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
901	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
902	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
903	*Lappula myosotis*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
904	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
905	*Lappula myosotis*	√	√	√	√	√	√	√	√	√	√	√	√
906	*Lappula myosotis*	√	√	√	√	√	√	×	√	√	√	√	√
907	*Lepidium apetalum*	√	√	√	√	√	√	×	√	√	√	√	√
908	*Lepidium apetalum*	√	√	√	√	√	√	×	√	×	√	×	√
909	*Lepidium apetalum*	√	√	√	√	√	√	×	√	√	√	√	√
910	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	×	√
911	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	×	√
912	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
913	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
914	*Leymus chinensis*	√	√	√	√	√	√	×	√	×	√	√	√
915	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
916	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
917	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
918	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
919	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	√	√
920	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
921	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	√	√
922	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	×	√
923	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
924	*Leymus chinensis*	√	√	√	√	√	√	×	√	×	√	√	√
925	*Leymus chinensis*	√	√	√	√	√	√	×	√	×	√	√	√
926	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
927	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
928	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
929	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
930	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
931	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
932	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
933	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
934	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
935	*Leymus chinensis*	√	√	√	√	√	√	×	√	×	√	√	√
936	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	√	√
937	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
938	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
939	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
940	*Leymus chinensis*	√	√	√	√	√	√	×	√	×	√	√	√
941	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
942	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
943	*Leymus chinensis*	√	√	√	√	√	√	√	√	√	√	√	√
944	*Leymus chinensis*	√	√	√	√	√	√	×	×	×	×	√	√
945	*Lilium pumilum*	√	√	√	√	√	√	×	×	×	×	×	×
946	*Lilium pumilum*	√	√	√	√	√	√	×	×	×	×	×	×
947	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
948	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
949	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
950	*Lilium pumilum*	×	×	×	×	×	×	√	√	√	√	√	√
951	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
952	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
953	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
954	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
955	*Lilium pumilum*	×	×	×	×	×	×	√	√	√	√	√	√
956	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
957	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
958	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
959	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
960	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
961	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
962	*Lilium pumilum*	√	√	√	√	√	√	×	√	√	√	√	√
963	*Lilium pumilum*	√	√	√	√	√	√	√	√	√	√	√	√
964	*Lilium pumilum*	√	√	√	√	√	√	×	√	√	√	√	√
965	*Limonium bicolor*	×	×	×	×	×	×	√	√	√	√	√	√
966	*Limonium bicolor*	√	√	√	√	√	√	×	√	√	√	√	√
967	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
968	*Limonium bicolor*	√	√	√	√	√	√	×	√	×	√	×	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
969	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
970	*Limonium bicolor*	√	√	√	√	√	√	×	√	×	√	×	√
971	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
972	*Limonium bicolor*	×	√	×	√	×	√	×	√	×	√	×	√
973	*Limonium bicolor*	√	√	√	√	√	√	×	√	√	√	√	√
974	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
975	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
976	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
977	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
978	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
979	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
980	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
981	*Limonium bicolor*	√	√	√	√	√	√	×	√	√	√	√	√
982	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
983	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
984	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
985	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
986	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
987	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
988	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
989	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
990	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
991	*Limonium bicolor*	√	√	√	√	√	√	√	√	√	√	√	√
992	*Limonium bicolor*	√	√	√	√	√	√	×	×	√	√	√	√
993	*Limonium bicolor*	√	√	√	√	√	√	×	√	√	√	√	√
994	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
995	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
996	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
997	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
998	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
999	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1000	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1001	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1002	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1003	*Linaria buriatica*	×	×	×	×	×	×	×	×	×	×	×	×
1004	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1005	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1006	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1007	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1008	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1009	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1010	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1011	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1012	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1013	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1014	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1015	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1016	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1017	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1018	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1019	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1020	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1021	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1022	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1023	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1024	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1025	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1026	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1027	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1028	*Linaria buriatica*	√	√	√	√	√	√	×	×	×	×	×	×
1029	*Linaria buriatica*	×	√	×	√	×	√	×	×	×	×	×	×
1030	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1031	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1032	*Medicago ruthenica*	√	√	√	√	√	√	×	√	×	√	√	√
1033	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1034	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1035	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1036	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1037	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1038	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1039	*Medicago ruthenica*	√	√	√	√	√	√	√	√	√	√	√	√
1040	*Medicago ruthenica*	×	×	×	×	√	√	√	√	√	√	√	√
1041	*Medicago ruthenica*	×	√	×	√	√	√	√	√	√	√	√	√
1042	*Neotrinia splendens*	×	√	×	√	√	√	×	√	×	√	√	√
1043	*Neotrinia splendens*	×	×	×	×	√	√	×	×	×	×	√	√
1044	*Neotrinia splendens*	×	√	×	√	√	√	×	√	×	√	√	√
1045	*Olgaea lomonossowii*	√	√	√	√	√	√	×	×	×	×	×	×
1046	*Olgaea lomonossowii*	√	√	√	√	√	√	×	×	×	×	×	×
1047	*Olgaea lomonossowii*	√	√	√	√	√	√	×	×	×	×	×	×
1048	*Olgaea lomonossowii*	√	√	√	√	√	√	×	×	×	×	×	×
1049	*Olgaea lomonossowii*	√	√	√	√	√	√	×	×	×	×	×	×
1050	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1051	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1052	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1053	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1054	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1055	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1056	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1057	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1058	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1059	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1060	*Olgaea lomonossowii*	√	√	√	√	√	√	√	√	√	√	√	√
1061	*Orobanche coerulescens*	√	√	√	√	√	√	√	√	√	√	√	√
1062	*Orobanche coerulescens*	√	√	√	√	√	√	√	√	√	√	√	√
1063	*Orobanche coerulescens*	√	√	√	√	√	√	√	√	√	√	√	√
1064	*Orobanche coerulescens*	√	√	√	√	√	√	×	√	×	√	×	√
1065	*Orobanche coerulescens*	√	√	√	√	√	√	√	√	√	√	√	√
1066	*Orobanche coerulescens*	√	√	√	√	√	√	√	√	√	√	√	√
1067	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1068	*Orobanche pycnostachya*	×	√	√	√	√	√	×	√	√	√	√	√
1069	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1070	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1071	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1072	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1073	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1074	*Orobanche pycnostachya*	√	√	√	√	√	√	×	√	√	√	√	√
1075	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1076	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1077	*Orobanche pycnostachya*	×	√	√	√	√	√	√	√	√	√	√	√
1078	*Orobanche pycnostachya*	×	√	√	√	√	√	×	√	√	√	√	√
1079	*Orobanche pycnostachya*	×	√	√	√	√	√	√	√	√	√	√	√
1080	*Orobanche pycnostachya*	×	√	√	√	√	√	√	√	√	√	√	√
1081	*Orobanche pycnostachya*	×	√	√	√	√	√	√	√	√	√	√	√
1082	*Orobanche pycnostachya*	×	√	√	√	√	√	√	√	√	√	√	√
1083	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1084	*Orobanche pycnostachya*	×	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1085	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1086	*Orobanche pycnostachya*	√	√	√	√	√	√	√	√	√	√	√	√
1087	*Orobanche pycnostachya*	√	√	√	√	√	√	×	√	√	√	√	√
1088	*Orobanche pycnostachya*	√	√	√	√	√	√	×	×	×	×	√	√
1089	*Orobanche pycnostachya*	√	√	√	√	√	√	×	√	×	√	√	√
1090	*Oxytropis myriophylla*	√	√	√	√	√	√	×	√	√	√	√	√
1091	*Oxytropis myriophylla*	√	√	√	√	√	√	√	√	√	√	√	√
1092	*Oxytropis myriophylla*	√	√	√	√	√	√	√	√	√	√	√	√
1093	*Oxytropis myriophylla*	√	√	√	√	√	√	×	√	√	√	√	√
1094	*Oxytropis myriophylla*	√	√	√	√	√	√	×	√	√	√	√	√
1095	*Oxytropis myriophylla*	√	√	√	√	√	√	×	√	×	√	×	√
1096	*Oxytropis myriophylla*	√	√	√	√	√	√	√	√	√	√	√	√
1097	*Oxytropis myriophylla*	√	√	√	√	√	√	×	√	×	√	×	√
1098	*Oxytropis myriophylla*	√	√	√	√	√	√	√	√	√	√	√	√
1099	*Oxytropis myriophylla*	√	√	√	√	√	√	×	×	×	√	√	√
1100	*Phlomoides tuberosa*	×	√	×	√	×	√	×	√	√	√	√	√
1101	*Phlomoides tuberosa*	√	√	√	√	√	√	√	√	√	√	√	√
1102	*Phlomoides tuberosa*	√	√	√	√	√	√	×	×	×	×	×	×
1103	*Phlomoides tuberosa*	√	√	√	√	√	√	√	√	√	√	√	√
1104	*Phlomoides tuberosa*	√	√	√	√	√	√	×	×	×	×	×	√
1105	*Phlomoides tuberosa*	×	√	×	√	√	√	×	×	×	×	×	×
1106	*Phlomoides tuberosa*	√	√	√	√	√	√	√	√	√	√	√	√
1107	*Phlomoides tuberosa*	×	×	×	×	×	×	√	√	√	√	√	√
1108	*Phlomoides tuberosa*	√	√	√	√	√	√	×	√	×	√	√	√
1109	*Phlomoides tuberosa*	√	√	√	√	√	√	√	√	√	√	√	√
1110	*Phlomoides tuberosa*	×	√	×	√	×	√	×	×	×	×	×	×
1111	*Phlomoides tuberosa*	√	√	√	√	√	√	×	√	√	√	√	√
1112	*Phlomoides tuberosa*	√	√	√	√	√	√	×	×	√	√	√	√
1113	*Phlomoides tuberosa*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1114	*Phlomoides tuberosa*	√	√	√	√	√	√	√	√	√	√	√	√
1115	*Phlomoides tuberosa*	√	√	√	√	√	√	×	×	×	×	×	×
1116	*Phlomoides tuberosa*	√	√	√	√	√	√	×	×	×	√	√	√
1117	*Poa sphondylodes*	×	√	×	√	√	√	×	√	×	√	√	√
1118	*Poa sphondylodes*	√	√	√	√	√	√	×	×	×	×	×	√
1119	*Polygala tenuifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1120	*Polygala tenuifolia*	×	×	×	×	×	×	√	√	√	√	√	√
1121	*Polygala tenuifolia*	√	√	√	√	√	√	×	×	×	×	×	×
1122	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1123	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1124	*Potentilla acaulis*	√	√	√	√	√	√	×	√	√	√	√	√
1125	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1126	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1127	*Potentilla acaulis*	√	√	√	√	√	√	×	√	√	√	√	√
1128	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1129	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1130	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1131	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1132	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1133	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1134	*Potentilla acaulis*	√	√	√	√	√	√	√	√	√	√	√	√
1135	*Potentilla tanacetifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1136	*Potentilla tanacetifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1137	*Potentilla tanacetifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1138	*Potentilla tanacetifolia*	√	√	√	√	√	√	×	√	×	√	×	√
1139	*Potentilla tanacetifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1140	*Potentilla tanacetifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1141	*Potentilla tanacetifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1142	*Potentilla tanacetifolia*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
1143	*Potentilla verticillaris*	√	√	√	√	√	√	×	√	√	√	√	√
1144	*Potentilla verticillaris*	×	√	√	√	√	√	√	√	√	√	√	√
1145	*Potentilla verticillaris*	×	×	×	×	×	√	×	×	√	√	√	√
1146	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1147	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1148	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1149	*Pseudolysimachion dauricum*	×	×	×	√	×	√	√	√	√	√	√	√
1150	*Pseudolysimachion dauricum*	√	√	√	√	√	√	×	√	√	√	√	√
1151	*Pseudolysimachion dauricum*	×	√	√	√	√	√	√	√	√	√	√	√
1152	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1153	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1154	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1155	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1156	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1157	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1158	*Pseudolysimachion dauricum*	√	√	√	√	√	√	√	√	√	√	√	√
1159	*Pulsatilla patens subsp. multifida*	×	√	√	√	√	√	×	×	×	×	×	×
1160	*Pulsatilla patens subsp. multifida*	×	√	×	√	×	√	×	×	×	×	×	×
1161	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	×	×	×
1162	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	×	√	√	√
1163	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1164	*Pulsatilla turczaninovii*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
1165	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	√	√	√	√
1166	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1167	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1168	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1169	*Pulsatilla turczaninovii*	×	√	×	√	×	√	×	√	√	√	√	√
1170	*Pulsatilla turczaninovii*	×	×	×	×	×	×	×	√	√	√	√	√
1171	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	√	×	√
1172	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1173	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1174	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1175	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	×	×	×
1176	*Pulsatilla turczaninovii*	√	√	√	√	√	√	√	√	√	√	√	√
1177	*Pulsatilla turczaninovii*	√	√	√	√	√	√	√	√	√	√	√	√
1178	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1179	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1180	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	√	√	√	√
1181	*Pulsatilla turczaninovii*	√	√	√	√	√	√	√	√	√	√	√	√
1182	*Pulsatilla turczaninovii*	√	√	√	√	√	√	√	√	√	√	√	√
1183	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	√	×	√	×	√
1184	*Pulsatilla turczaninovii*	√	√	√	√	√	√	√	√	√	√	√	√
1185	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	×	×	×
1186	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	√	√	√	√
1187	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	√	√	√
1188	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	√	√	√
1189	*Pulsatilla turczaninovii*	√	√	√	√	√	√	×	×	×	×	×	×
1190	*Salsola collina*	√	√	√	√	√	√	×	×	×	×	×	×
1191	*Salsola collina*	√	√	√	√	√	√	×	×	×	×	×	×
1192	*Salsola collina*	√	√	√	√	√	√	×	×	×	×	×	×
1193	*Salsola collina*	√	√	√	√	√	√	×	×	×	×	×	×
1194	*Salsola collina*	√	√	√	√	√	√	×	×	×	×	×	×
1195	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1196	*Sanguisorba officinalis*	√	√	√	√	√	√	×	×	×	×	×	×
1197	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1198	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1199	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1200	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1201	*Sanguisorba officinalis*	×	×	×	×	×	×	√	√	√	√	√	√
1202	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1203	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1204	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1205	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1206	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1207	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1208	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1209	*Sanguisorba officinalis*	√	√	√	√	√	√	×	√	√	√	√	√
1210	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1211	*Sanguisorba officinalis*	√	√	√	√	√	√	√	√	√	√	√	√
1212	*Sanguisorba officinalis*	√	√	√	√	√	√	×	×	×	×	×	×
1213	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	×
1214	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1215	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	×
1216	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	×	√
1217	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	√
1218	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1219	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	√
1220	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1221	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	×
1222	*Saposhnikovia divaricata*	×	√	×	√	×	√	×	×	×	×	×	×
1223	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	×	√
1224	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1225	*Saposhnikovia divaricata*	×	√	×	√	√	√	×	×	×	×	×	×
1226	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	×
1227	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	√	√
1228	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	×	×
1229	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1230	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1231	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	×	×	×	√	√
1232	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1233	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1234	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	×	√
1235	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1236	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	×	√
1237	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	×	√
1238	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1239	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1240	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	√	√
1241	*Saposhnikovia divaricata*	√	√	√	√	√	√	×	√	×	√	√	√
1242	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1243	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1244	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1245	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1246	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1247	*Saposhnikovia divaricata*	√	√	√	√	√	√	√	√	√	√	√	√
1248	*Saussurea amara*	√	√	√	√	√	√	×	√	√	√	√	√
1249	*Saussurea amara*	×	√	√	√	√	√	×	×	×	√	×	√
1250	*Saussurea amara*	×	√	√	√	√	√	×	×	×	×	×	×
1251	*Saussurea amara*	√	√	√	√	√	√	×	×	×	×	×	√
1252	*Saussurea salicifolia*	×	×	√	√	√	√	×	×	√	√	√	√
1253	*Saussurea salicifolia*	×	×	√	√	√	√	×	×	×	×	×	×

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
1254	*Saussurea salicifolia*	×	√	√	√	√	√	×	×	×	×	×	×
1255	*Saussurea salicifolia*	×	×	√	√	√	√	×	×	√	√	√	√
1256	*Saussurea salicifolia*	×	×	×	√	√	√	×	×	√	√	√	√
1257	*Saussurea salicifolia*	×	×	√	√	√	√	×	×	√	√	√	√
1258	*Saussurea salicifolia*	×	×	√	√	√	√	×	√	√	√	√	√
1259	*Saussurea salicifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1260	*Saussurea salicifolia*	×	√	√	√	√	√	√	√	√	√	√	√
1261	*Saussurea salicifolia*	√	√	√	√	√	√	×	×	×	√	√	√
1262	*Saussurea salicifolia*	×	×	√	√	√	√	×	×	√	√	√	√
1263	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1264	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	×	√	×	√
1265	*Schizonepeta tenuifolia*	×	×	√	√	√	√	×	√	√	√	√	√
1266	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1267	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	×	×	×	√	√
1268	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1269	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1270	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1271	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1272	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1273	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1274	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1275	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1276	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1277	*Schizonepeta tenuifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1278	*Scutellaria scordiifolia*	×	√	√	√	√	√	×	×	√	√	√	√
1279	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1280	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1281	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	×	√	×	√
1282	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1283	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1284	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1285	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1286	*Scutellaria scordiifolia*	×	√	√	√	√	√	√	√	√	√	√	√
1287	*Scutellaria scordiifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1288	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1289	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1290	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1291	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1292	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1293	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1294	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1295	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1296	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1297	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1298	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1299	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1300	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1301	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1302	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	×	√	√	√
1303	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1304	*Scutellaria scordiifolia*	×	√	√	√	√	√	×	√	√	√	√	√
1305	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	√	√	√	√	√
1306	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1307	*Scutellaria scordiifolia*	√	√	√	√	√	√	×	×	√	√	√	√
1308	*Scutellaria scordiifolia*	√	√	√	√	√	√	√	√	√	√	√	√
1309	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1310	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1311	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1312	*Scutellaria viscidula*	×	√	×	√	×	√	√	√	√	√	√	√
1313	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1314	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1315	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1316	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1317	*Scutellaria viscidula*	√	√	√	√	√	√	×	√	×	√	×	√
1318	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1319	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1320	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1321	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1322	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1323	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1324	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1325	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1326	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1327	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1328	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1329	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1330	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1331	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1332	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1333	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1334	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1335	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1336	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1337	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1338	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1339	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1340	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1341	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1342	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1343	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1344	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1345	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1346	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1347	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1348	*Scutellaria viscidula*	×	×	×	×	×	×	√	√	√	√	√	√
1349	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1350	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1351	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1352	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1353	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1354	*Scutellaria viscidula*	√	√	√	√	√	√	√	√	√	√	√	√
1355	*Scutellaria viscidula*	√	√	√	√	√	√	×	√	×	√	×	√
1356	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1357	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1358	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1359	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1360	*Sibbaldia sericea*	√	√	√	√	√	√	×	×	×	×	×	×
1361	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1362	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1363	*Sibbaldia sericea*	√	√	√	√	√	√	×	×	×	×	×	×
1364	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1365	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1366	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1367	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1368	*Sibbaldia sericea*	×	×	×	×	√	√	×	×	×	×	×	×
1369	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1370	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1371	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1372	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1373	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1374	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1375	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1376	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1377	*Sibbaldia sericea*	×	√	×	√	√	√	×	×	×	×	×	×
1378	*Sibbaldianthe adpressa*	√	√	√	√	√	√	×	×	×	×	×	×
1379	*Sibbaldianthe adpressa*	√	√	√	√	√	√	√	√	√	√	√	√
1380	*Sibbaldianthe adpressa*	√	√	√	√	√	√	√	√	√	√	√	√
1381	*Sibbaldianthe adpressa*	√	√	√	√	√	√	√	√	√	√	√	√
1382	*Sibbaldianthe adpressa*	√	√	√	√	√	√	√	√	√	√	√	√
1383	*Sibbaldianthe adpressa*	√	√	√	√	√	√	√	√	√	√	√	√
1384	*Sibbaldianthe adpressa*	√	√	√	√	√	√	√	√	√	√	√	√
1385	*Sibbaldianthe bifurca*	√	√	√	√	√	√	×	×	×	×	×	×
1386	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1387	*Sibbaldianthe bifurca*	√	√	√	√	√	√	×	√	×	√	√	√
1388	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1389	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1390	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1391	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1392	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1393	*Sibbaldianthe bifurca*	×	√	×	√	√	√	×	×	×	×	√	√
1394	*Sibbaldianthe bifurca*	×	×	×	×	√	√	×	×	×	×	√	√
1395	*Sibbaldianthe bifurca*	×	×	×	×	√	√	×	×	×	×	√	√
1396	*Sibbaldianthe bifurca*	×	×	×	×	√	√	×	√	×	√	√	√
1397	*Sibbaldianthe bifurca*	×	×	×	×	√	√	×	×	×	×	√	√
1398	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5	Species TOP1	Species TOP5	Genus TOP1	Genus TOP5	Family TOP1	Family TOP5
1399	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1400	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1401	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1402	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1403	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1404	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1405	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1406	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1407	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1408	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1409	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1410	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1411	*Sibbaldianthe bifurca*	√	√	√	√	√	√	√	√	√	√	√	√
1412	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1413	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1414	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1415	*Silene jeniseensis*	√	√	√	√	√	√	×	√	√	√	√	√
1416	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1417	*Silene jeniseensis*	√	√	√	√	√	√	×	√	×	√	×	√
1418	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1419	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1420	*Silene jeniseensis*	√	√	√	√	√	√	×	√	×	√	×	√
1421	*Silene jeniseensis*	√	√	√	√	√	√	×	×	×	×	×	×
1422	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1423	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1424	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1425	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1426	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√
1427	*Silene jeniseensis*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1428	*Silene jeniseensis*	√	√	√	√	√	√	×	×	×	×	×	×
1429	*Silene jeniseensis*	√	√	√	√	√	√	×	×	×	×	×	×
1430	*Silene jeniseensis*	√	√	√	√	√	√	×	×	×	×	×	×
1431	*Stipa baicalensis*	√	√	√	√	√	√	×	×	×	×	×	×
1432	*Stipa baicalensis*	×	×	×	×	√	√	×	×	×	×	×	×
1433	*Taraxacum mongolicum*	×	×	×	×	√	√	×	×	×	×	×	×
1434	*Teloxys aristata*	×	×	×	×	×	×	×	×	×	×	√	√
1435	*Teloxys aristata*	×	√	×	√	×	√	×	×	×	×	√	√
1436	*Teloxys aristata*	√	√	√	√	√	√	×	×	×	×	×	×
1437	*Teloxys aristata*	×	×	×	×	×	×	√	√	√	√	√	√
1438	*Teloxys aristata*	×	×	×	×	×	√	√	√	√	√	√	√
1439	*Teloxys aristata*	√	√	√	√	√	√	×	×	×	×	×	×
1440	*Teloxys aristata*	×	√	×	√	×	√	×	×	×	×	×	×
1441	*Teloxys aristata*	√	√	√	√	√	√	×	×	×	×	×	×
1442	*Teloxys aristata*	√	√	√	√	√	√	×	×	×	×	×	×
1443	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1444	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1445	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1446	*Thalictrum petaloideum*	√	√	√	√	√	√	×	×	×	×	×	×
1447	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1448	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1449	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1450	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1451	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1452	*Thalictrum petaloideum*	√	√	√	√	√	√	×	√	×	√	×	√
1453	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1454	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1455	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√
1456	*Thalictrum petaloideum*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1457	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1458	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1459	*Thermopsis lanceolata*	√	√	√	√	√	√	×	√	×	√	×	√
1460	*Thermopsis lanceolata*	√	√	√	√	√	√	×	×	×	×	×	√
1461	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1462	*Thermopsis lanceolata*	√	√	√	√	√	√	×	√	×	√	×	√
1463	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1464	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1465	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1466	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1467	*Thermopsis lanceolata*	√	√	√	√	√	√	×	√	×	√	√	√
1468	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1469	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1470	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1471	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1472	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1473	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1474	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1475	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1476	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1477	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1478	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1479	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1480	*Thermopsis lanceolata*	√	√	√	√	√	√	√	√	√	√	√	√
1481	*Tournefortia sibirica*	×	√	×	√	×	√	√	√	√	√	√	√
1482	*Tournefortia sibirica*	√	√	√	√	√	√	√	√	√	√	√	√
1483	*Tournefortia sibirica*	√	√	√	√	√	√	√	√	√	√	√	√
1484	*Tournefortia sibirica*	√	√	√	√	√	√	√	√	√	√	√	√
1485	*Tournefortia sibirica*	√	√	√	√	√	√	√	√	√	√	√	√

		216 species grassland plants intelligent recognition model						15K intelligent recognition model					
No.	Test species	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5	Species TO P1	Species TO P5	Genus TO P1	Genus TO P5	Family TO P1	Family TO P5
1486	*Tournefortia sibirica*	√	√	√	√	√	√	√	√	√	√	√	√
1487	*Tournefortia sibirica*	√	√	√	√	√	√	√	√	√	√	√	√
1488	*Vicia amoena*	√	√	√	√	√	√	×	√	√	√	√	√
1489	*Vicia amoena*	√	√	√	√	√	√	×	×	√	√	√	√
1490	*Vicia amoena*	√	√	√	√	√	√	×	√	×	√	√	√
1491	*Vicia amoena*	×	√	√	√	√	√	×	√	√	√	√	√
1492	*Vicia amoena*	√	√	√	√	√	√	×	√	×	√	√	√
1493	*Vicia amoena*	√	√	√	√	√	√	×	√	√	√	√	√
1494	*Vicia amoena*	√	√	√	√	√	√	√	√	√	√	√	√
1495	*Vicia amoena*	√	√	√	√	√	√	×	√	√	√	√	√
1496	*Vicia amoena*	√	√	√	√	√	√	×	√	√	√	√	√
1497	*Vicia amoena*	√	√	√	√	√	√	×	√	√	√	√	√
1498	*Vicia amoena*	√	√	√	√	√	√	×	√	√	√	√	√