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Flora of Jeokgeunsan Mountain in the Civilian Control Zone, Gangwon-do, South Korea

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ABSTRACT

The flora of Jeokgeunsan Mountain forest genetic resources protection zone was identified and the major flora distribution examined. From May 2011 to September 2012, the flora was made up of taxonomic groups including 84 families, 283 genera, 432 species, four subspecies, 59 varieties, and six forma. Eleven families and 16 taxonomic groups were endemic plants to Korea, and 13 taxonomic groups were rare flora of Korea designated by the National Forest Service. Eight families and 24 taxonomic groups for naturalized plants were confirmed and the naturalization rate was 4.8%. Out of 501 taxonomic groups, 404 were resource plants of which 208 (41.5%) were edible plants, 152 (30.3%) were medicinal plants, 199 (39.7%) were herbaceous plants, and 55 (11.0%) were ornamental plants.

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Introduction

Jeokgeunsan Mountain (1071 m), which is located in the Civilian Control Zone, is situated in the southeastern part of Cheorwon-gun, Gangwon-do, Korea and its administrative borders are with Wonnam-myeon of Cheorwon-gun and Sangseo-myeon of Hwacheon-gun. It is located at north latitude 38° 17' 12" and east longitude 127° 36' 22" and is part of the Hanbuk Mountain Range that breaks apart from the North Korean Chugaryeong Mountain (752 m) of North Korea from the Baekdu Mountain Range. The Hanbuk Mountain Range begins at Chugaryeong and continues to Baekamsan Mountain (1170 m), Jeokgeunsan Mountain, Dae-seongsan Mountain (1175 m), Gwangdeoksan Mountain (1046 m), Baekunsan Mountain (903 m), and Gukmanbong (1167 m), which are currently military zones that restrict civilian access.

Jeokgeunsan Mountain has been designated in one area (1849 ha) as a primeval forest type of the forest genetic resource protection zone designated and administered by the Forest Protection Act, and is being administered by the Northern Regional Forest Service, Chuncheon National Forest Administration Office. The Civilian Control Zone completely restricts access by civilians,

and direct plant investigations are difficult due to spatial constraints such as military facilities and mine fields. Thus, the flora and vegetation were examined in areas around the military facilities and areas in which safety had been confirmed (Kim and Jeong, 2002; Kim et al., 2010; Oh et al., 2009).

Therefore, this study aimed at identifying the flora growing in the Jeokgeunsan Mountain Forest Genetic Resource Protection Zone to reclassify the designation type of the forest genetic resource protection zone, while providing basic data for the management and preservation of efficient plant resources and forest genetic resource protection zones.

Materials and methods

In order to identify the flora of Jeokgeunsan Mountain, field investigations were carried out on six separate occasions from June 2011 to September 2012. The investigation routes normally included valley areas where various species grew wild, slightly dry slope areas, and ridge areas for a balanced ecologic vegetation area (Figure 1, Table 1).

Also, in order to improve the accuracy of results, only those plants with reproductive organs such as flowers, fruits, and pollen were collected. The collected plants were produced as pressed leaf and immersion specimens and stored at the Korea National Arboretum Forest Life Specimen Center Plant Specimen Office (KH). A large part of the Jeokgeunsan area is covered by mine fields, therefore it is a difficult area to access. Thus, when

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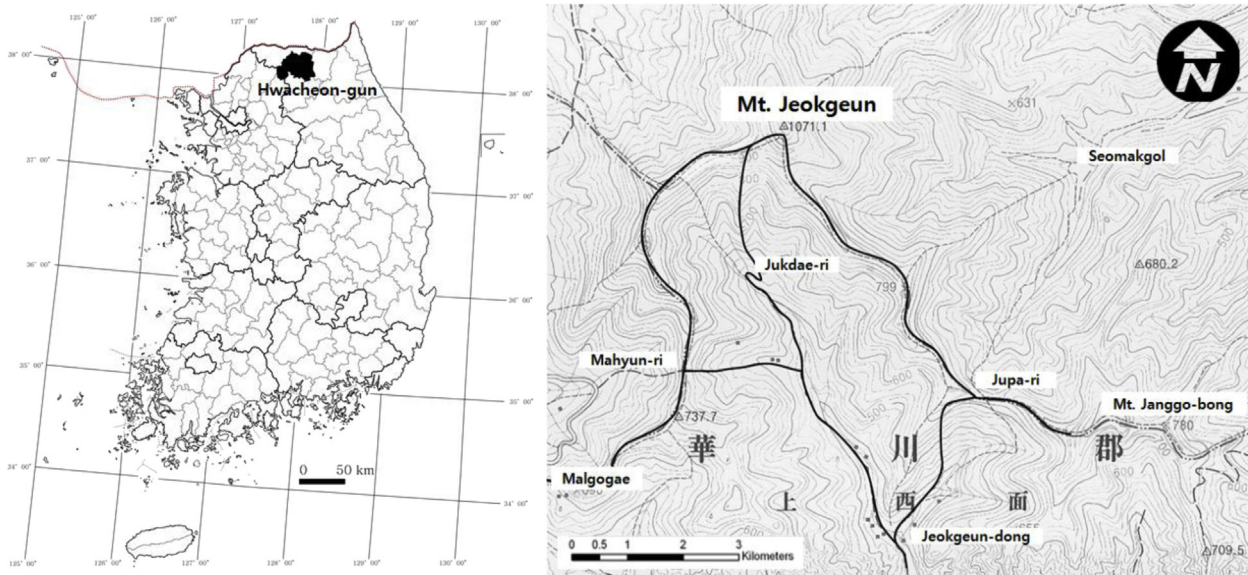


Figure 1. Map of the investigated area in Jeokgeunsan Mountain.

identification was possible or for specific taxonomic groups such as rare species, plants were recorded as iconic documents for species preservations and were included in the flora list without plant specimens.

Identification of the observed plants referred to the illustrated plant books of Lee (1980, 1996a, 1996b, 2003a, 2003b, 2006a, 2006b), Kim and Kim (2011), and Park (2009); for several ferns the illustrated fern book of Korea (Korean Fern Society, 2005) was used, and for Graminae, the illustrated plant book 1 of Korea was used (Korea National Arboretum, 2004). Vascular plant listing followed Engler's taxonomic system (Melchior, 1964) and their scientific names and Korean names were listed according to the Korea National Arboretum list 2014 (<http://www.nature.go.kr/>). Based on the drafted vascular plant list, the Korean endemic plants (Oh et al., 2005), rare plants (Korea National Arboretum, 2008), floristic characteristic plants (Ministry of Environment and National Institute of Environmental Research, 2006), naturalized plants (Lee et al., 2011; Park, 1995, 2001, 2009), and resource plant usefulness (Lee, 1976) were arranged and presented separately from the overall vascular plant list. The list also included planted species, which were indicated using the word "planted" in front of their Korean name (Appendix 1).

Table 1
Investigation dates and routes.

Date	Survey routes
9 May 2011	A: Jeokgeundong → Jupa-ri → Janggobong B: Jupa-ri → Jeokgeunsan
16 June 2011	A: Jeokgeundong → Jukdaeri → Jeokgeunsan B: Jeokgeundong → Mahyunri → Jeokgeundong
17 June 2011	A: Jeokgeunsan → Mahyunri → Malgogae B: Jeokgeunsan → Jupa-ri → Jeokgeundong
24 August 2011	A: Jeokgeunsan → Jukdaeri → Janggobong B: Jeokgeundong → Jupa-ri → Jeokgeundong
25 August 2011	A: Jeokgeundong → Jukdaeri → Jeokgeundong B: Jeokgeundong → Mahyunri → Jeokgeundong
07 September 2012	A: Jeokgeundong → Jupa-ri → Jeokgeunsan B: Malgogae → Mahyunri → Jeokgeundong

Results

Vascular flora

Vascular plants found in the Jeokgeunsan area revealed through this study a total of 501 taxonomic groups comprising 84 families, 283 genera, 432 species, four subspecies, 59 varieties, and six forma. For Pteridophyta, there were eight families, 16 genera, four varieties, and 30 taxonomic groups; Gymnospermae had one family, two genera, three species, and three taxonomic groups; dicotyledons of Angiospermae had 66 families, 211 genera, 314 species, four subspecies, 46 varieties, five forma, and 369 taxonomic groups; and monocotyledons had nine families, 54 genera, 89 species, nine varieties, one forma, and 99 taxonomic groups (Table 2).

When organizing by family, there were 62 taxonomic groups in the Compositae family, 29 in the Rosaceae, 26 in the Lilaceae, 23 in the Leguminosae, 19 in the Aspidiaceae, 17 in the Labiatae, 17 in the Ranunculaceae, 14 in the Umbelliferae, 14 in the Polygonaceae, 14 in the Cruciferae, and 13 taxonomic groups in the Cyperaceae families (Appendix 1).

Endemic plants

Of the 501 taxonomic groups found in the investigation area, endemic plants (Oh et al., 2005) included *Populus tomentiglandulosa*, and *Forsythia koreana* (Rehder) Nakai that were planted, as

Table 2
Summary on the floristics in Jeokgeunsan Mountain.

Taxa	Fam.	Gen.	Sp.	Subsp.	Var.	For.	Total
Pteridophyta	8	16	26	–	4	–	30
Gymnospermae	1	2	3	–	–	–	3
Angiospermae	75	265	403	4	55	6	468
Dicotyledons	66	211	314	4	46	5	369
Monocotyledons	9	54	89	–	9	1	99
Total	84	283	432	4	59	6	501

Fam = family; For = Forma; Gen = genus; Sp = species; Subsp = subspecies; Var = variety.

Table 3
List of Korean endemic plants in Jeokgeunsan Mountain.

Family name	Scientific name	Korean name
Salicaceae	<i>Populus tomentiglandulosa</i> T.B. Lee	은사시나무(planted)
Urticaceae	<i>Pilea oligantha</i> Nakai	강계큰물통이
Ranunculaceae	<i>Aconitum pseudolaevae</i> Nakai	진범
Ranunculaceae	<i>Clematis brachyura</i> Maxim.	외대으아리
Ranunculaceae	<i>Clematis trichotoma</i> Nakai	할미밀망
Ranunculaceae	<i>Thalictrum rochebrunianum</i> var. <i>grandisepalum</i> (H. Lev.) Nakai	금평의다리
Aristolochiaceae	<i>Asarum versicolor</i> (K. Yamaki) Y.N. Lee	누늬족도리쭈
Saxifragaceae	<i>Philadelphus schrenkii</i> Rupr.	고광나무
Saxifragaceae	<i>Saxifraga octopetala</i> Nakai	구실바위취
Leguminosae	<i>Vicia chosenensis</i> Ohwi	노랑갈퀴
Geraniaceae	<i>Geranium knuthii</i> Nakai	큰세잎취손이
Oleaceae	<i>Forsythia koreana</i> (Rehder) Nakai	개나리(planted)
Labiatae	<i>Salvia chanryoenica</i> Nakai	참배암차즈기
Caprifoliaceae	<i>Weigela subsessilis</i> (Nakai) L.H.Bailey	병꽃나무
Compositae	<i>Cirsium setidens</i> (Dunn) Nakai	고려영경취
Compositae	<i>Saussurea seoulensis</i> Nakai	분취

well as *Pilea oligantha* Nakai, *Aconitum pseudolaevae* Naka, *Clematis brachyura* Maxim., *Clematis trichotoma* Nakai, *Thalictrum rochebrunianum* var. *grandisepalum* (H. Lev.) Nakai, *Asarum versicolor* (K. Yamaki) Y.N. Lee, *Philadelphus schrenkii* Rupr., *Saxifraga octopetala* Nakai, *Vicia chosenensis* Ohwi, *Geranium knuthii* Nakai, *Salvia chanryoenica* Nakai, *Weigela subsessilis* (Nakai) L.H. Bailey, *Cirsium setidens* (Dunn) Nakai, *Saussurea seoulensis* Nakai, etc., for a total of 11 families, 15 genera, and 16 taxonomic groups, and endemic plants (Oh et al., 2005) accounted for 4.88% of the 328 taxonomic groups (Table 3).

Rare plants

For rare plants (Korea National Arboretum, 2008) designated by the Korea Forest Service, a total of 11 species and 13 taxonomic groups were confirmed (Table 4). Among them, critically endangered (CR) species were not found. For endangered (EN) species, there was *Saxifraga octopetala* Nakai; for vulnerable (VU) species, there was *Leontopodium japonicum* Miq.; and for least concerned (LC) species, there were a total of 10 taxonomic groups such as *Aristolochia contorta* Bunge, *Aristolochia manshuriensis* Kom., *Rodgersia podophylla* A. Gray, *Viola albida* Palib., *Syringa patula* var. *kamibayshii* (Nakai) K. Kim, *Trigonotis icumae* (Maxim.) Makino, *Salvia chanryoenica* Nakai, *Patrinia saniculaefolia* Hemsl, *Lilium*

Table 4
List of Korean rare plants and red list in Jeokgeunsan Mountain.

Family	Scientific name/Korean name	Degree	
		1 ^a	2 ^b
Saxifragaceae	<i>Saxifraga octopetala</i> Nakai 구실바위취		EN
Compositae	<i>Leontopodium japonicum</i> Miq. 왜송다리		VU
Aristolochiaceae	<i>Aristolochia contorta</i> Bunge 취방울덩굴		LC
Aristolochiaceae	<i>Aristolochia manshuriensis</i> Kom. 등취		
Saxifragaceae	<i>Rodgersia podophylla</i> A.Gray 도깨비부채	LC	
Violaceae	<i>Viola albida</i> Palib. 태백제비꽃		
Oleaceae	<i>Syringa patula</i> var. <i>kamibayshii</i> (Nakai) K.Kim 정향나무		
Boraginaceae	<i>Trigonotis icumae</i> (Maxim.) Makino 덩굴꽃마리	LC	
Labiatae	<i>Salvia chanryoenica</i> Nakai 참배암차즈기		
Valerianaceae	<i>Patrinia saniculaefolia</i> Hemsl. 금마타리		
Liliaceae	<i>Lilium distichum</i> Nakai ex Kamib. 말나리	LC	
Liliaceae	<i>Streptopus ovalis</i> (Ohwi) F.T.Wang & Y.C.Tang 금강애기나리		
Scrophulariaceae	<i>Scrophularia koraiensis</i> Nakai 토현삼		DD

DD = data deficient; EN = endangered species; LC = least concern; VU = vulnerable.

^a Ministry of Environment and National Institute of Biological Resources (red list)

^b Korea Forest Service (rare plants).

distichum Nakai ex Kamib., *Streptopus ovalis* (Ohwi) F.T. Wang & Y.C. Tang, and there was one taxonomic group with data deficiency such as *Scrophularia koraiensis* Nakai.

Also, for ratings according to the red list (Ministry of Environment and National Institute of Biological Resources, 2012) designated by the Ministry of Environment, there were three taxonomic groups designated as LC such as *Rodgersia podophylla* A. Gray, *Trigonotis icumae* (Maxim.) Makino, and *Lilium distichum* Nakai ex Kamib. The Korea Forest Service rare plant list and the Ministry of Environment red list ratings are different according to the opinions of experts, so it is judged that an integrated rating must be achieved in the future.

Floristic characteristic plants

Floristic characteristic plants are as shown in Table 5. Class V was not found in the investigated area. Six species and eight taxonomic groups were found in Class IV, such as *Rodgersia podophylla* A.Gray, *Prunus davidiana* (Carriere) Franch., *Spiraea miyabei* Koidz., *Acer pictum* subsp. *mono* (Maxim.) Ohashi, *Patrinia rupestris* (Pall.) Juss., *Leontopodium japonicum* Miq., *Festuca rubra* L., and *Poa viridula* Palib. Class III included *Betula chinensis* Maxim., *Aconitum longecassidatum* Nakai, *Aristolochia manshuriensis* Kom., and *Sanguisorba hakusanensis* Makino for a total of 12 families in 16 taxonomic groups.

For Class II, there were 25 taxonomic groups including *Ulmus laciniata* (Trautv.) Mayr, *Thalictrum rochebrunianum* var. *grandisepalum* (H. Lé.v.) Nakai, *Mukdenia rossii* (Oliv.) Koidz., *Aruncus dioicus* var. *kamtschaticus* (Maxim.) H. Hara, *Potentilla dickinsii* Franch. & Sav., and *Acer triflorum* Kom. and there were 27 taxonomic groups in Class 1 such as *Dryopteris crassirhizoma* Nakai, *Juglans mandshurica* Maxim., and *Betula davurica* Pall.

Naturalized plants

A total of eight families and 24 taxonomic groups were found for naturalized plants, which accounted for 4.8% of the 501 taxonomic groups found. This was approximately 7.5% of the 321 taxonomic groups of naturalized plants found within Korea reported by Lee et al., (2011). For the investigated naturalized plants, 10 taxonomic groups were in the Compositae family, five in the Graminae, and three in the Leguminosae families (Table 6). Many of the naturalized plants were concentrated in the barracks and military operation routes, thus, in order to prevent penetration into the

Table 5

List of 5th to 3rd degree taxa of specially designated plants by the Ministry of Environment National Institute of Environmental Research.

Family	Scientific name/Korean name	Degree (total)
Saxifragaceae	<i>Rodgersia podophylla</i> A. Gray 도깨비부채	IV (8)
Rosaceae	<i>Prunus davidiana</i> (Carriere) Franch. 산복사나무	
Rosaceae	<i>Spiraea miyabei</i> Koidz. 덩굴조팝나무	III (16)
Aceraceae	<i>Acer pictum</i> subsp. <i>mono</i> (Maxim.) Ohashi 고로쇠나무	
Valerianaceae	<i>Patrinia rupestris</i> (Pall.) Juss. 돌마타리	
Compositae	<i>Leontopodium japonicum</i> Miq. 왜솔다리	
Gramineae	<i>Festuca rubra</i> L. 왕김의털	
Gramineae	<i>Poa viridula</i> Palib. 청포아풀	
Betulaceae	<i>Betula chinensis</i> Maxim. 개박달나무	
Ranunculaceae	<i>Aconitum longecassidatum</i> Nakai 흰진범	
Aristolochiaceae	<i>Aristolochia manshuriensis</i> Kom. 등취	
Rosaceae	<i>Sanguisorba hakusanensis</i> Makino 산오이풀	
Rosaceae	<i>Spiraea chamaedryfolia</i> L. 인가목조팝나무	
Rosaceae	<i>Spiraea fritschiana</i> C.K.Schneid. 참조팝나무	
Leguminosae	<i>Vicia chosensis</i> Ohwi 노랑갑귀	
Aceraceae	<i>Acer komarovii</i> Pojark. 시닥나무	
Umbelliferae	<i>Angelica gigas</i> Nakai 참당귀	
Oleaceae	<i>Syringa reticulata</i> var. <i>mandshurica</i> (Maxim.) H. Hara 개회나무	
Labiatae	<i>Salvia chanryoenica</i> Nakai 참배암차즈기	
Labiatae	<i>Teucrium veronicoides</i> Maxim. 괄향	
Scrophulariaceae	<i>Scrophularia koraiensis</i> Nakai 토현삼	
Gramineae	<i>Diarrhena fauriei</i> (Hack.) Ohwi 광릉용수염	
Gramineae	<i>Phaenosperma globosa</i> Munro ex Benth. 산기장	
Cyperaceae	<i>Carex jaluensis</i> Kom. 참삿갓사초	

Below III omitted.

forest area, continuous monitoring and research on naturalized plants is necessary.

Classification by use

Results according to the economic value standards based on the study of Lee (1976), found that among the 501 taxonomic groups found in the investigation area, 404 were of value as resource plants. When classifying them by usage, they were in the order of

Table 6

List of naturalized plants in Jeokgeunsan Mountain.

Family	Scientific name	Korean name
Polygonaceae	<i>Fallopia dumetorum</i> (L.) Holub	닭의정풀
Caryophyllaceae	<i>Cerastium glomeratum</i> Thuill.	유럽점나도나물
Chenopodiaceae	<i>Chenopodium album</i> L.	흰명아주
Cruciferae	<i>Lepidium apetalum</i> Willd.	다닥냉이
Cruciferae	<i>Thlaspi arvense</i> L.	말냉이
Leguminosae	<i>Amorpha fruticosa</i> L.	죽제비싸리
Leguminosae	<i>Robinia pseudoacacia</i> L.	아까시나무
Leguminosae	<i>Trifolium repens</i> L.	토끼풀
Onagraceae	<i>Oenothera biennis</i> L.	달맞이꽃
Compositae	<i>Ambrosia artemisiifolia</i> L.	돼지풀
Compositae	<i>Ambrosia trifida</i> L.	단풍잎돼지풀
Compositae	<i>Aster pilosus</i> Willd.	미국쑥부쟁이
Compositae	<i>Bidens frondosa</i> L.	미국가막사리
Compositae	<i>Carduus crispus</i> L.	지느러미영경귀
Compositae	<i>Chrysanthemum leucanthemum</i> L.	불란서국화
Compositae	<i>Conyza canadensis</i> (L.) Cronquist	망초
Compositae	<i>Cosmos bipinnatus</i> Cav.	코스모스
Compositae	<i>Erigeron annuus</i> (L.) Pers.	개망초
Compositae	<i>Taraxacum officinale</i> Weber	서양민들레
Gramineae	<i>Agropyron repens</i> (L.) P.Beauv.	구주개밀
Gramineae	<i>Dactylis glomerata</i> L.	오리새
Gramineae	<i>Festuca arundinacea</i> Schreb.	큰김의털
Gramineae	<i>Lolium perenne</i> L.	호밀풀
Gramineae	<i>Poa pratensis</i> L.	왕포아풀

Table 7

Usefulness of vascular plants distributed in Jeokgeunsan Mountain.

Use	E	M	P	O	T	F	S	R	U
No. of taxa	208	152	199	55	20	6	7	3	97
Ratio (%)	41.5	30.3	39.7	11.0	4.0	1.2	1.4	0.6	19.4

E = edible plant; F = fiber plant; M = medicinal plant; O = ornamental plant; P = pasture plant; R = industrial raw material plant; S = stain plant; T = timber plant; U = unknown use plant.

edible plants in 208 taxonomic groups (41.5%), medicinal plants in 152 taxonomic groups (30.3%), grass plants in 199 taxonomic groups (39.7%), ornamental plants in 55 taxonomic groups (11.0%), wooden plants in 20 taxonomic groups (4.0%), dyeing plants in seven taxonomic groups (1.4%), industrial plants in three taxonomic groups (0.6%), and 97 taxonomic groups (19.4%) were plants having uses unknown. It was also found that of the 501 taxonomic groups, 145 had two or more uses (Table 7, Appendix 1).

Management and preservation plans

The Forest Genetic Resource Protection Zone comprises forests that require preservation of their ecology. They are designated into seven types: primeval forests; alpine plant zones; rare forest floors unique to Korea; rare plant Habitat; useful plant Habitat; forest wetlands and river valley areas in forests; and natural ecology preservation areas. Furthermore, for efficient preservation and management, they are classified as core zones and buffer zones (Korea National Arboretum, 2007). The Jeokgeunsan Mountain Forest Genetic Resource Protection Zone has been designated and managed as a primeval forest type, but it is now thought that it should be reclassified as a natural ecology preservation zone in order to devise more efficient administration plans.

Preservation plans for rare and endemic plants should also be devised. Rare and endemic plants are commonly distributed in hiking trails and military operation routes. In particular, *Leontopodium japonicum* Miq. is distributed around military operation routes from 1000 m above sea level to the top of Jeokgeunsan Mountain. However, there is a possibility of damage due to avalanches, loss of soil, and other natural disturbances, as well as human disturbances such as loss due to the construction of military operation routes or by animals. Thus, it is necessary to devise preservation plans for the long-term monitoring of indigenous plants by installing information signs and protective fences.

It is also considered that indigenous plants are on the decline due to presence of vine plants, Thus, it is necessary to renovate the spontaneous land environment by removing these vine plants. For the preservation of indigenous plants, management of naturalized plants is also necessary. Naturalized plants grow around the barracks and military facilities, and on military operation routes and it is believed that they will threaten other indigenous plants by intruding upon the forest areas. Therefore, because naturalized plants have superior reproductive abilities compared to indigenous plants, they should be continuously removed and monitored.

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Appendix 1. List of vascular plants distributed in Jeokgeunsan Mountain.

Scientific name/Korean name	1	2	3	4	5	6
Equisetaceae 속새과						
<i>Equisetum arvense</i> L. 쇠뜨기						E,P
Lycopodiaceae 석송과						
<i>Lycopodium serratum</i> Thunb. 땃톱						M
Selaginellaceae 부처손과						
<i>Selaginella rossii</i> (Baker) Warb. 구실사리	HS111153					U
Osmundaceae 고비과						
<i>Osmunda cinnamomea</i> var. <i>forkiensis</i> Copel. 쟁고비						
<i>Osmunda japonica</i> Thunb. 고비						E,M
Pteridaceae 고사리과						
<i>Dennstaedtia hirsuta</i> (Sw.) Mett. ex Miq. 잔고사리	HS110448					U
<i>Dennstaedtia wilfordii</i> (T.Moore) H.Christ 황고사리	HS111070					U
<i>Pteridium aquilinum</i> var. <i>latiusculum</i> (Desv.) Underw. ex Hell. 고사리						E,M
Dryopteridaceae 먼마과						
<i>Arachniodes borealis</i> Seriz. 약살고사리	HS111334					U
<i>Athyrium brevifrons</i> Kodama ex Nakai 참새발고사리						E,M
<i>Athyrium niponicum</i> (Mett.) Hance 개고사리	HS111039					E
<i>Athyrium vidalii</i> (Franch. & Sav.) Nakai 산개고사리						E,M
<i>Deparia japonica</i> (Thunb.) M.Kato 진고사리	HS111158					U
<i>Deparia pycnosora</i> (H.Christ) M.Kato 털고사리	HS111252					U
<i>Dryopteris bissetiana</i> (Baker) C.Chr. 산족제비고사리						U
<i>Dryopteris chinensis</i> (Baker) Koidz. 가는잎족제비고사리	HS111263					U
<i>Dryopteris crassirhizoma</i> Nakai 관중				I		E,M
<i>Onoclea orientalis</i> (Hook.) Hook. 개면마	HS111336					U
<i>Onoclea sensibilis</i> var. <i>interrupta</i> Maxim. 야산고비	HS111166					E
<i>Polystichum braunii</i> (Spenn.) Fee 줄나도히초미	HS111076			II		U
<i>Polystichum ovatopaleaceum</i> var. <i>coraiense</i> (H.Christ) Sa.Kurata 참나도히초미	HS111150			I		U
<i>Polystichum tripterum</i> (Kunze) C.Presl 십자고사리						U
<i>Thelypteris laxa</i> (Franch. & Sav.) Ching 드문고사리	HS111267			I		U
<i>Thelypteris palustris</i> (Salisb.) Schott 처녀고사리						U
<i>Woodsia manchuriensis</i> Hook. 만주우드풀	L110777					U
<i>Woodsia polystichoides</i> D.C.Eaton 우드풀	HS111255					U
Aspleniaceae 꼬리고사리과						
<i>Asplenium incisum</i> Thunb. 꼬리고사리						U
<i>Asplenium ruprechtii</i> Kurata 거미고사리						U
<i>Asplenium yokoscense</i> (Franch. & Sav.) H.Christ 뱀고사리						E
Polypodiaceae 고란초과						
<i>Lepisorus ussuriensis</i> (Regel & Maack) Ching 산일엽초						U
Pinaceae 소나무과						
<i>Larix kaempferi</i> (Lamb.) Carriere 일본잎갈나무	L110797					T
<i>Pinus densiflora</i> Siebold & Zucc. 소나무	HS111036					E,M,O,T
<i>Pinus koraiensis</i> Siebold & Zucc. 잣나무				I		E,M,O,T
Juglandaceae 가래나무과						
<i>Juglans mandshurica</i> Maxim. 가래나무				I		E,F,T
<i>Platycarya strobilacea</i> Siebold & Zucc. 굴피나무						U
Salicaceae 버드나무과						
<i>Populus davidiana</i> Dode 사시나무				I		M,P
<i>Populus tomentiglandulosa</i> T.B.Lee 은사시나무(planted)	L110775		O			T
<i>Salix caprea</i> L. 호랑버들						P
<i>Salix gracilistyla</i> Miq. 갯버들	HS111073					P
<i>Salix koreensis</i> Andersson 버드나무	HS110439					P
Betulaceae 자작나무과						
<i>Alnus sibirica</i> Fisch. ex Turcz. 물오리나무						R
<i>Betula chinensis</i> Maxim. 개박달나무				III		T
<i>Betula davurica</i> Pall. 물박달나무	HS111096			I		T
<i>Betula schmidtii</i> Regel 박달나무	HS110422			I		T
<i>Carpinus cordata</i> Blume 까치박달						T
<i>Corylus heterophylla</i> Fisch. ex Trautv. 개암나무	L110784					E,M,P
<i>Corylus sieboldiana</i> Blume 참개암나무						E,M
<i>Corylus sieboldiana</i> var. <i>mandshurica</i> (Maxim. & Rupr.) C.K.Schneid. 들개암나무	HS111216					E,M
Fagaceae 참나무과						
<i>Castanea crenata</i> Siebold & Zucc. 밤나무						E,M,R,T
<i>Quercus dentata</i> Thunb. 떡갈나무						E,M,R,T
<i>Quercus mongolica</i> Fisch. ex Ledeb. 신갈나무						E,P,T
<i>Quercus variabilis</i> Blume 굴참나무						E,M,R,T
Ulmaceae 느릅나무과						
<i>Ulmus davidiana</i> var. <i>japonica</i> (Rehder) Nakai 느릅나무						E,M,T
<i>Ulmus laciniata</i> (Trautv.) Mayr 난티나무				II		E,M,T
Moraceae 뽕나무과						
<i>Morus bombycis</i> Koidz. 산뽕나무						E,M,P,R
Cannabaceae 삼과						
<i>Humulus japonicus</i> Siebold & Zucc. 환삼덩굴						E,M,P
Urticaceae 쑥기쭈과						

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<i>Boehmeria spicata</i> (Thunb.) Thunb. 좁깨잎나무						F
<i>Boehmeria tricuspis</i> (Hance) Makino 거북꼬리						E,F
<i>Boehmeria tricuspis</i> var. <i>unicuspis</i> Makino 풀거북꼬리	HS111062					E,F
<i>Pilea japonica</i> (Maxim.) Hand.-Mazz. 산물롱이	HS111272					U
<i>Pilea mongolica</i> Wedd. 모시물롱이	HS111057					P
<i>Pilea oligantha</i> Nakai 강계큰물롱이			O			P
Loranthaceae 겨우살이과						
<i>Viscum album</i> var. <i>coloratum</i> (Kom.) Ohwi 겨우살이						M
Polygonaceae 마디풀과						
<i>Aconogonon alpinum</i> (All.) Schur 심아	HS111198					E
<i>Fallopia dumetorum</i> (L.) Holub 닭의덩굴	HS111028				O	U
<i>Fallopia multiflora</i> (Thunb.) Haraldson 하수오						M
<i>Persicaria dissitiflora</i> (Hemsl.) H.Gross ex Mori 가시여뀌	HS111044					U
<i>Persicaria lapathifolia</i> (L.) Gray 흰여뀌	HS111288					U
<i>Persicaria longiseta</i> (Brujin) Kitag. 개여뀌	HS111055					U
<i>Persicaria nepalensis</i> (Meisn.) H.Gross 산여뀌	HS111305					U
<i>Persicaria posumbu</i> var. <i>laxiflora</i> (Meisn.) H. Hara 장대여뀌	HS111038					U
<i>Persicaria sagittata</i> (L.) H.Gross ex Nakai 미꾸리낙시						P
<i>Persicaria senticosa</i> (Meisn.) H.Gross ex Nakai 머느리말씻개	HS111034					E,P
<i>Persicaria thunbergii</i> (Siebold & Zucc.) H.Gross ex Nakai 고마리						P
<i>Persicaria viscofera</i> (Makino) Nakai 끈끈이여뀌	HS111148					P
<i>Polygonum aviculare</i> L. 마디풀						E,M
<i>Rumex acetosa</i> L. 수영	HS110436					M
Caryophyllaceae 석죽과						
<i>Arenaria serpyllifolia</i> L. 벼룩이자리						E
<i>Cerastium glomeratum</i> Thuill. 유럽점나도나물					O	U
<i>Cerastium holosteoides</i> var. <i>hallaisanense</i> (Nakai) Mizush. 점나도나물	HS110442					E
<i>Cucubalus baccifer</i> var. <i>japonicus</i> Miq. 덩굴별꽃	HS111168					U
<i>Lychnis cognata</i> Maxim. 동자꽃	HS111212			I		O,P
<i>Pseudostellaria heterophylla</i> (Miq.) Pax ex Pax & Hoffm. 개별꽃						E,M
<i>Pseudostellaria palibiniana</i> (Takeda) Ohwi 큰개별꽃	L110802					E
<i>Sagina japonica</i> (Sw.) Ohwi 개미자리						M
<i>Silene firma</i> Siebold & Zucc. 장구채	HS111045					E,M,P
<i>Stellaria aquatica</i> (L.) Scop. 쇠별꽃						E,M
<i>Stellaria media</i> (L.) Vill. 별꽃						E
Chenopodiaceae 명아주과						
<i>Chenopodium album</i> L. 흰명아주	HS111054				O	E,P
Magnoliaceae 목련과						
<i>Magnolia sieboldii</i> K.Koch 함박꽃나무	HS110412					O,P
Schisandraceae 오미자과						
<i>Schisandra chinensis</i> (Turcz.) Baill. 오미자						E,M
Lauraceae 녹나무과						
<i>Lindera obtusiloba</i> Blume 생강나무	JJ110469					E,M,O
Ranunculaceae 미나리아재비과						
<i>Aconitum jaluense</i> Kom. 투구꽃	HS111215			I		M
<i>Aconitum longecassidatum</i> Nakai 흰진범	HS111268			III		M
<i>Aconitum pseudolaevae</i> Nakai 진범	HS111165		O			M
<i>Aquilegia buergeriana</i> var. <i>oxysepala</i> (Trautv. & Meyer) Kitam. 매발톱	L110794			II		O
<i>Cimicifuga foetida</i> L. 황새송마	HS111075					M
<i>Clematis apiifolia</i> DC. 사위질빵	HS111342					U
<i>Clematis brachyura</i> Maxim. 외대으아리	L110793		O			M
<i>Clematis heracleifolia</i> DC. 병조희풀	HS111217					M
<i>Clematis patens</i> C.Morren & Decne. 큰꽃으아리				I		O
<i>Clematis terniflora</i> var. <i>mandshurica</i> (Rupr.) Ohwi 으아리	HS110415					M
<i>Clematis trichotoma</i> Nakai 할미말망	HS111042		O			U
<i>Hepatica asiatica</i> Nakai 노루귀						O
<i>Pulsatilla koreana</i> (Yabe ex Nakai) Nakai ex Nakai 할미꽃						M
<i>Ranunculus chinensis</i> Bunge 짓가락나물						U
<i>Thalictrum aquilegifolium</i> var. <i>sibiricum</i> Regel & Tiling 쟁의다리	HS111328					E,M,P
<i>Thalictrum filamentosum</i> var. <i>tenerum</i> (Huth) Ohwi 산쟁의다리	L110800					M
<i>Thalictrum rochebrunianum</i> var. <i>grandisepalum</i> (H.Lev.) Nakai 금쟁의다리			O	II		U
Menispermaceae 방기과						
<i>Menispermum dauricum</i> DC. 새모래덩굴						U
Chloranthaceae 홀아비꽃대과						
<i>Chloranthus japonicus</i> Siebold 홀아비꽃대	JJ110473			I		U
Aristolochiaceae 쥐방울덩굴과						
<i>Aristolochia contorta</i> Bunge 쥐방울덩굴	HS111316	LC		I		M
<i>Aristolochia manshuriensis</i> Kom. 등취		LC		III		M
<i>Asarum sieboldii</i> Miq. 죽도리풀	L110789					M
<i>Asarum versicolor</i> (K.Yamaki) Y.N.Lee 무늬죽도리풀	L110790		O			U
Actinidiaceae 다래나무과						
<i>Actinidia arguta</i> (Siebold & Zucc.) Planch. ex Miq. 다래	HS111270					E,M
<i>Actinidia kolomikta</i> (Maxim. & Rupr.) Maxim. 쥐다래	L110786					E
<i>Actinidia polygama</i> (Siebold & Zucc.) Planch. ex Maxim. 개다래						E,M
Guttiferae 물레나물과						

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<i>Hypericum ascyron</i> L. 물레나물	HS111266					E,O
<i>Hypericum erectum</i> Thunb. 고추나물						M,P
Papaveraceae 양귀비과						
<i>Chelidonium majus</i> var. <i>asiaticum</i> (Hara) Ohwi 애기똥풀						M
Fumariaceae 현호색과						
<i>Corydalis pauciovulata</i> Ohwi 산괴불주머니	HS111067					U
<i>Corydalis speciosa</i> Maxim. 산괴불주머니						U
Cruciferae 십자화과						
<i>Arabis glabra</i> Bernh. 장대나물						E
<i>Arabis hirsuta</i> (L.) Scop. 털장대	L110806					E
<i>Barbarea orthoceras</i> Ledeb. 나도냉이						M
<i>Berteroella maximowiczii</i> (Palib.) O.E.Schulz 장대냉이	HS110429					E
<i>Capsella bursapastoris</i> (L.) L.W.Medicus 냉이						E,M
<i>Cardamine fallax</i> L. 좁쌀냉이						E
<i>Cardamine impatiens</i> L. 씨리냉이						E
<i>Cardamine komarovii</i> Nakai 논쟁이냉이	L110778			I		E
<i>Cardamine leucantha</i> (Tausch) O.E.Schulz 미나리냉이	HS110433					E
<i>Draba nemorosa</i> L. 꽃다지						E,M
<i>Lepidium apetalum</i> Willd. 다닥냉이					O	E,M
<i>Rorippa indica</i> (L.) Hiern 개갓냉이						E
<i>Rorippa palustris</i> (Leyss.) Besser 속속이풀						E
<i>Thlaspi arvense</i> L. 말냉이					O	E
Crassulaceae 돌나물과						
<i>Hylotelephium erythrostictum</i> (Miq.) H.Ohba 정의비름	HS111331					E,M,P
<i>Hylotelephium verticillatum</i> (L.) H.Ohba 세잎정의비름	HS111311			I		
<i>Hylotelephium viviparum</i> (Maxim.) H.Ohba 새끼정의비름	HS111214					O
<i>Sedum kamtschaticum</i> Fisch. & Mey. 기린초	HS111236					E
<i>Sedum polytrichoides</i> Hemsl. 바위채송화	HS110432					U
<i>Sedum sarmentosum</i> Bunge 돌나물						E,M
Saxifragaceae 범의귀과						
<i>Astilbe rubra</i> Hook.f. & Thomson 노루오줌	HS111117					M,P
<i>Deutzia parviflora</i> Bunge 말밭도리	HS110437					O
<i>Deutzia uniflora</i> Shirai 매화말밭도리	HS110423					O
<i>Mukdenia rossii</i> (Oliv.) Koidz. 돌단풍				II		O
<i>Philadelphus schrenckii</i> var. <i>jackii</i> Koehne 털고광나무	L110785					O,P
<i>Philadelphus schrenckii</i> Rupr. 고광나무	HS110427					O,P
<i>Rodgersia podophylla</i> A.Gray 도깨비부채		LC		IV		U
<i>Saxifraga fortunei</i> var. <i>incislobata</i> (Engl. & Irmsch.) Nakai 바위떡풀						E
<i>Saxifraga octopetala</i> Nakai 구실바위취	HS111343	EN	O			U
Rosaceae 장미과						
<i>Agrimonia pilosa</i> Ledeb. 짚신나물	HS111129					E,M,P
<i>Aruncus dioicus</i> var. <i>kamtschaticus</i> (Maxim.) H. Hara 논개승마	JJ110457			II		U
<i>Crataegus pinnatifida</i> Bunge 산사나무						E,M
<i>Duchesnea indica</i> (Andr.) Focke 뱀딸기	L110788					E,M,P
<i>Geum aleppicum</i> Jacq. 큰뽕무	HS111059					E,P
<i>Malus baccata</i> (L.) Borkh. 야광나무	HS111189			I		E,M
<i>Potentilla cryptotaeniae</i> Maxim. 물양지꽃	HS111063			I		P
<i>Potentilla dickinsii</i> Franch. & Sav. 돌양지꽃	HS111156			II		U
<i>Potentilla fragarioides</i> var. <i>major</i> Maxim. 양지꽃						E,M
<i>Potentilla freyniana</i> Bornm. 세잎양지꽃						E,P
<i>Prunus davidiana</i> (Carriere) Franch. 산복사나무	HS111048			IV		U
<i>Prunus japonica</i> var. <i>nakaii</i> (H.Lev.) Rehder 이스라지	HS111317					E,M,P
<i>Prunus persica</i> (L.) Batsch 복사나무	HS111323					E,P
<i>Prunus sargentii</i> Rehder 산벚나무						O,P
<i>Prunus serrulata</i> var. <i>pubescens</i> (Makino) Nakai 잔털벚나무	L110792					E,O
<i>Rosa multiflora</i> Thunb. 찔레꽃						E,M,P
<i>Rubus crataegifolius</i> Bunge 산딸기						E,M,P
<i>Rubus oldhamii</i> Miq. 줄딸기						E
<i>Rubus phoenicolasius</i> Maxim. 곶딸기						E
<i>Sanguisorba hakusanensis</i> Makino 산오이풀				III		M
<i>Sanguisorba officinalis</i> L. 오이풀						M,P
<i>Sorbus alnifolia</i> (Siebold & Zucc.) K.Koch 팔배나무						E,P
<i>Sorbus commixta</i> Hedl. 마가목						M,O
<i>Spiraea blumei</i> G.Don 산조팝나무				I		O
<i>Spiraea chamaedryfolia</i> L. 인가목조팝나무	HS110446			III		O
<i>Spiraea fritschiana</i> C.K.Schneid. 참조팝나무	JJ110455			III		O
<i>Spiraea miyabei</i> Koidz. 덩불조팝나무	HS110435			IV		O
<i>Spiraea prunifolia</i> f. <i>simpliciflora</i> Nakai 조팝나무						E,M,O
<i>Stephanandra incisa</i> (Thunb.) Zabel 국수나무	JJ110467					R
Leguminosae 콩과						
<i>Amorpha fruticosa</i> L. 쪽제비싸리					O	P
<i>Amphicarpaea bracteata</i> subsp. <i>edgeworthii</i> (Benth.) H.Ohashi 새콩	HS111029					E,P
<i>Chamaecrista nomame</i> (Siebold) H.Ohashi 차풀						E,M,P
<i>Desmodium podocarpum</i> var. <i>oxyphyllum</i> (DC.) H.Ohashi 도독놈의갈고리	HS111178					

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<i>Glycine soja</i> Siebold & Zucc. 돌콩	HS111052					E,P
<i>Indigofera kirilowii</i> Maxim. ex Palib. 땅비싸리	HS110414					O
<i>Kummerowia striata</i> (Thunb.) Schindl. 매듭풀						P
<i>Lathyrus davidii</i> Hance 활랑나물	HS111257					E,M
<i>Lespedeza bicolor</i> Turcz. 싸리	HS111090					O,P
<i>Lespedeza cyrtobotrya</i> Miq. 참싸리	HS111123					F,O
<i>Lespedeza maximowiczii</i> C.K.Schneid. 조록싸리						O,P
<i>Lespedeza tomentosa</i> (Thunb.) Siebold ex Maxim. 개싸리	HS111025					P
<i>Maackia amurensis</i> Rupr. 다릅나무						T
<i>Pueraria lobata</i> (Willd.) Ohwi 취	HS111033					E,M,P,R
<i>Robinia pseudoacacia</i> L. 아까시나무	HS111262				O	P,T
<i>Sophora flavescens</i> Solander ex Aiton 고삼						M
<i>Trifolium repens</i> L. 토끼풀					O	P
<i>Vicia amoena</i> Fisch. ex DC. 갈퀴나물	HS111027					E,P
<i>Vicia chosensis</i> Ohwi 노랑갈퀴	HS110413		O	III		P
<i>Vicia japonica</i> A.Gray 넓은잎갈퀴	HS111242					E,P
<i>Vicia unijuga</i> A.Braun 나비나물	HS111253					E,P
<i>Vicia venosa</i> var. <i>cuspidata</i> Maxim. 광릉갈퀴						E
<i>Vigna angularis</i> var. <i>nipponensis</i> (Ohwi) Ohwi & H. Ohashi 새팔	HS111179					E
Oxalidaceae 썩이밥과						
<i>Oxalis corniculata</i> L. 썩이밥	HS111128					E,M
<i>Oxalis obtriangulata</i> Maxim. 큰썩이밥				I		E
<i>Oxalis stricta</i> L. 선썩이밥	HS110440					E
Geraniaceae 쥐손이풀과						
<i>Geranium knuthii</i> Nakai 큰세잎쥐손이	HS111234		O			M
<i>Geranium koreanum</i> Kom. 둥근이질풀						M,P
<i>Geranium sibiricum</i> L. 쥐손이풀	HS111116					M,P
<i>Geranium thunbergii</i> Siebold & Zucc. 이질풀						M,P
<i>Geranium wilfordii</i> Maxim. 세잎쥐손이	HS111183					M
Euphorbiaceae 대극과						
<i>Securinega suffruticosa</i> (Pall.) Rehder 광대싸리	JJ110465					M
Rutaceae 운향과						
<i>Phellodendron amurense</i> Rupr. 향벽나무				II		M,P
Simaroubaceae 소태나무과						
<i>Picrasma quassioides</i> (D.Don) Benn. 소태나무						F,M
Anacardiaceae 옻나무과						
<i>Rhus javanica</i> L. 붉나무						E,M,R
<i>Rhus tricoarpa</i> Miq. 개옻나무	HS110411					M
Aceraceae 단풍나무과						
<i>Acer komarovii</i> Pojark. 시달나무				III		O
<i>Acer pictum</i> subsp. <i>mono</i> (Maxim.) Ohashi 고로쇠나무	HS111060			IV		M,O,P
<i>Acer pseudosieboldianum</i> (Pax) Kom. 당단풍나무						O
<i>Acer tataricum</i> subsp. <i>ginnala</i> (Maxim.) Wesm. 신나무						P
<i>Acer triflorum</i> Kom. 복자기				II		O
Balsaminaceae 봉선화과						
<i>Impatiens nolitangere</i> L. 노랑물봉선	HS111297			I		P
<i>Impatiens textori</i> Miq. 물봉선	HS111219					M
<i>Impatiens textori</i> var. <i>koreana</i> Nakai 흰물봉선	HS111105					U
Celastraceae 노박덩굴과						
<i>Celastrus orbiculatus</i> Thunb. 노박덩굴	HS111283					E,O,R
<i>Euonymus alatus</i> (Thunb.) Siebold 화살나무						E,M,P
<i>Euonymus alatus</i> f. <i>ciliatodentatus</i> (Franch. & Sav.) Hiyama 회잎나무						E,P
<i>Tripterygium regelii</i> Sprague & Takeda 미역줄나무	HS111192					U
Staphyleaceae 고추나무과						
<i>Staphylea bumalda</i> DC. 고추나무	HS111332					E
Vitaceae 포도과						
<i>Ampelopsis brevipedunculata</i> (Maxim.) Trautv. 개머루	HS111261					U
<i>Parthenocissus tricuspidata</i> (Siebold & Zucc.) Planch. 담쟁이덩굴						O,P
Tiliaceae 피나무과						
<i>Tilia amurensis</i> Rupr. 피나무						P,T
<i>Tilia mandshurica</i> Rupr. & Maxim. 찰피나무						P,T
Sterculiaceae 벽오동과						
<i>Corchoropsis tomentosa</i> (Thunb.) Makino 수까치개	HS111037					U
Violaceae 제비꽃과						
<i>Viola acuminata</i> Ledeb. 줄방제비꽃						E
<i>Viola albida</i> Palib. 태백제비꽃	HS111243	LC				E
<i>Viola albida</i> var. <i>chaerophylloides</i> (Regel) F.Maek. ex Hara 남산제비꽃	HS111161					U
<i>Viola collina</i> Besser 둥근털제비꽃	L110804					U
<i>Viola keiskei</i> Miq. 잔털제비꽃	HS111281					U
<i>Viola mandshurica</i> W.Becker 제비꽃	HS111346					E,M,P
<i>Viola orientalis</i> (Maxim.) W.Becker 노랑제비꽃	HS110441			II		U
<i>Viola rossii</i> Hemsl. 고깔제비꽃	HS111322					M
<i>Viola tokubuchiana</i> var. <i>takedana</i> (Makino) F.Maek. 민둥외제비꽃	HS111304			II		U
<i>Viola variegata</i> Fisch. ex Link 알록제비꽃	HS111256					E,O
<i>Viola verecunda</i> A.Gray 콩제비꽃	HS111109					E,P

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Onagraceae 바늘꽃과						
<i>Oenothera biennis</i> L. 달맞이꽃	HS111312				O	O,P
Alangiaceae 박쥐나무과						
<i>Alangium platanifolium</i> var. <i>trilobum</i> (Miq.) Ohwi 박쥐나무						E,P
Cornaceae 층층나무과						
<i>Cornus controversa</i> Hemsl. 층층나무						U
<i>Cornus macrophylla</i> Wall. 곰의말채나무	L110798					U
Araliaceae 두릅나무과						
<i>Aralia cordata</i> var. <i>continentalis</i> (Kitag.) Y.C.Chu 독활	HS111279					E,M
<i>Aralia elata</i> (Miq.) Seem. 두릅나무						E,M
<i>Eleutherococcus sessiliflorus</i> (Rupr. & Maxim.) S.Y.Hu 오갈피나무	L110791			I		E,M
<i>Kalopanax septemlobus</i> (Thunb.) Koidz. 음나무	HS111203					E,P
Umbelliferae 산형과						
<i>Angelica amurensis</i> Schischk. 지리강활	HS111173					U
<i>Angelica czernaevia</i> (Fisch. & C.A.Mey.) Kitag. 잔잎바디	HS111310					E
<i>Angelica dahurica</i> (Fisch. ex Hoffm.) Benth. & Hook.f. ex Franch. & Sav. 구릿대						E,P
<i>Angelica decursiva</i> (Miq.) Franch. & Sav. 바디나물	HS111102					E,M
<i>Angelica gigas</i> Nakai 참당귀	HS111164					E
<i>Angelica polymorpha</i> Maxim. 궁중이				III		E,M
<i>Angelica tenuissima</i> Nakai 고본	HS111207			II		M
<i>Anthriscus sylvestris</i> (L.) Hoffm. 전호						M,P
<i>Cymopterus melanotilingia</i> (H.Boissieu) C.Y.Yoon 큰참나물				II		E
<i>Heracleum moellendorffii</i> Hance 어수리	HS111119					E,P
<i>Ostericum grosseserratum</i> (Maxim.) Kitag. 신감채	HS111250					P
<i>Peucedanum terebinthaceum</i> (Fisch.) Fisch. ex DC. 기름나물	HS111093					E
<i>Pimpinella brachycarpa</i> (Kom.) Nakai 참나물	HS111195					E,P
<i>Sanicula chinensis</i> Bunge 참반디	HS111269					E,M
Ericaceae 진달래과						
<i>Rhododendron mucronulatum</i> Turcz. 진달래	HS111151					E,O
<i>Rhododendron schlippenbachii</i> Maxim. 철쭉	HS111227					O
<i>Vaccinium hirtum</i> var. <i>koreanum</i> (Nakai) Kitam. 산앵도나무	HS111152			II		E
Primulaceae 영초과						
<i>Lysimachia clethroides</i> Duby 큰까치수염	HS111140					E,P
<i>Lysimachia vulgaris</i> var. <i>davurica</i> (Ledeb.) R.Kunth 좁쌀풀	HS111229					U
<i>Primula jesoana</i> Miq. 큰영초	JJ110447			II		E,O
Styracaceae 때죽나무과						
<i>Styrax obassia</i> Siebold & Zucc. 쪽동백나무	HS111069					O,P
Symplocaceae 노린재나무과						
<i>Symplocos chinensis</i> f. <i>pilosa</i> (Nakai) Ohwi 노린재나무	JJ110452					P
Oleaceae 물푸레나무과						
<i>Forsythia koreana</i> (Rehder) Nakai 개나리(planted)			O			M,O
<i>Fraxinus mandshurica</i> Rupr. 들메나무				I		P,T
<i>Fraxinus rhynchophylla</i> Hance 물푸레나무	HS111078					M,P
<i>Syringa patula</i> var. <i>kamibayshii</i> (Nakai) K.Kim 정향나무		LC				O
<i>Syringa reticulata</i> var. <i>mandshurica</i> (Maxim.) H. Hara 개회나무	JJ110460			III		U
Asclepiadaceae 박주가리과						
<i>Cynanchum ascyrifolium</i> (Franch. & Sav.) Matsum. 민백미꽃	JJ110449					M
<i>Metaplexis japonica</i> (Thunb.) Makino 박주가리						E,M,P
Rubiaceae 꼭두서니과						
<i>Asperula maximowiczii</i> Kom. 개갈퀴	HS111333					U
<i>Galium pogonanthum</i> Franch. & Sav. 산갈퀴	HS111222					U
<i>Galium spurium</i> var. <i>echinospermon</i> (Wallr.) Hayek 갈퀴덩굴						E,M
<i>Rubia akane</i> Nakai 꼭두서니	HS111107					U
<i>Rubia chinensis</i> Regel & Maack 큰꼭두서니	HS110425					M,P
<i>Rubia cordifolia</i> var. <i>pratensis</i> Maxim. 갈퀴꼭두서니						M
Convolvulaceae 메꽃과						
<i>Calystegia sepium</i> var. <i>japonicum</i> (Choisy) Makino 메꽃						E,P
<i>Cuscuta japonica</i> Choisy 새삼	HS111314					M
Boraginaceae 지치과						
<i>Trigonotis icumae</i> (Maxim.) Makino 덩굴꽃마리						E
<i>Trigonotis peduncularis</i> (Trevir.) Benth. ex Hemsl. 꽃마리		LC		I		E
Verbenaceae 마편초과						
<i>Callicarpa japonica</i> Thunb. 작살나무						O
Labiatae 꿀풀과						
<i>Agastache rugosa</i> (Fisch. & Mey.) Kuntze 배초향						E
<i>Clinopodium chinense</i> var. <i>parviflorum</i> (Kudo) Hara 층층이꽃	HS111249					E
<i>Isodon excisus</i> (Maxim.) Kudo 오리방풀	HS111114					E
<i>Isodon inflexus</i> (Thunb.) Kudo 산박하	HS111089					E
<i>Isodon japonicus</i> (Burm.) Hara 방아풀						E
<i>Leonurus japonicus</i> Houtt. 익모초	HS111041					M
<i>Leonurus macranthus</i> Maxim. 송장풀	HS111320					M
<i>Lycopus lucidus</i> Turcz. ex Benth. 십싸리	HS111202					M
<i>Meehanian urticifolia</i> (Miq.) Makino 벌개덩굴						E,P
<i>Mosla punctulata</i> (J.F.Gmelin) Nakai 들깨풀						M

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Scientific name/Korean name	1	2	3	4	5	6
<i>Phlomis umbrosa</i> Turcz. 속단	HS111184					E,M
<i>Prunella vulgaris</i> var. <i>lilacina</i> Nakai 꿀꿀	HS110416					M
<i>Salvia chanryoenica</i> Nakai 참배암차즈기	HS111068	LC	O	III		O
<i>Scutellaria fauriei</i> H.Lev. & Vaniot 그늘골무꽃	HS110418					U
<i>Scutellaria pekinensis</i> var. <i>transitra</i> (Makino) Hara 산골무꽃						U
<i>Stachys japonica</i> Miq. 석잠풀						P
<i>Teucrium veronicoides</i> Maxim. 괘향	HS111258			III		U
Solanaceae 가지과						
<i>Physalistrum japonicum</i> (Franch. & Sav.) Honda 가시파리	HS111271					U
Scrophulariaceae 현삼과						
<i>Melampyrum roseum</i> Maxim. 꽃머느리밭풀	HS111351					U
<i>Melampyrum roseum</i> var. <i>ovalifolium</i> Nakai ex Beauverd 알머느리밭풀	HS111133					U
<i>Pedicularis resupinata</i> L. 송이풀	HS111233					E,M
<i>Phtheirospermum japonicum</i> (Thunb.) Kanitz 나도송이풀	HS111348					U
<i>Scrophularia koraiensis</i> Nakai 토현삼	HS111113			III		M
Acanthaceae 쥐꼬리망초과						
<i>Justicia procumbens</i> L. 쥐꼬리망초	HS111335					M,P
Phrymaceae 파리풀과						
<i>Phryma leptostachya</i> var. <i>asiatica</i> H. Hara 파리풀	HS111275					M
Plantaginaceae 질경이과						
<i>Plantago asiatica</i> L. 질경이	HS111308					E,M,P
Caprifoliaceae 인동과						
<i>Lonicera maackii</i> (Rupr.) Maxim. 괴불나무						E
<i>Sambucus sieboldiana</i> var. <i>miquelii</i> (Nakai) Hara 지렁쿠나무	HS110444					E,M,P
<i>Viburnum opulus</i> var. <i>calvescens</i> (Rehder) H. Hara 백당나무	L110782					O
<i>Weigela florida</i> (Bunge) A.DC. 붉은 병꽃나무	HS111221			II		O,P
<i>Weigela praecox</i> (Lemoine) L.H.Bailey 소영도리나무	J110446			II		O
<i>Weigela subsessilis</i> (Nakai) L.H.Bailey 병꽃나무			O			O,P
Valerianaceae 마타리과						
<i>Patrinia rupestris</i> (Pall.) Juss. 돌마타리	HS111228			IV		U
<i>Patrinia saniculaefolia</i> Hemsl. 금마타리	J110454	LC		II		U
<i>Patrinia scabiosaefolia</i> Fisch. ex Trevir. 마타리	HS111136					E,M,P
<i>Patrinia villosa</i> (Thunb.) Juss. 옥갑	HS111244					E
<i>Valeriana amurensis</i> P.A.Smirn. ex Kom. 설령쥐오줌풀	J110472					U
<i>Valeriana fauriei</i> Briq. 쥐오줌풀						E
Campanulaceae 초롱꽃과						
<i>Adenophora divaricata</i> Franch. & Sav. 넓은잔대	HS111097					E
<i>Adenophora remotiflora</i> (Siebold & Zucc.) Miq. 모시대	HS111344					E,M
<i>Adenophora triphylla</i> var. <i>japonica</i> (Regel) H. Hara 잔대	HS111327					E,M
<i>Asyneuma japonicum</i> (Miq.) Briq. 영아자	HS111061					E
<i>Campanula punctata</i> Lam. 초롱꽃						O
<i>Codonopsis lanceolata</i> (Siebold & Zucc.) Trautv. 더덕	J110445					E,M,P
<i>Platycodon grandiflorum</i> (Jacq.) A.DC. 도라지						M,O
<i>Platycodon grandiflorum</i> f. <i>albiflorum</i> (Honda) H. Hara 백도라지	HS111082					E,M,O
Compositae 국화과						
<i>Achillea alpina</i> L. 톨풀				II		E,M
<i>Adenocaulon himalaicum</i> Edgew. 멀가치						E
<i>Ainsliaea acerifolia</i> Sch.Bip. 단풍취	HS111135					E
<i>Ambrosia artemisiifolia</i> L. 돼지풀	HS111058				O	U
<i>Ambrosia trifida</i> L. 단풍잎돼지풀					O	U
<i>Artemisia capillaris</i> Thunb. 사철썩	HS111137					E,P
<i>Artemisia feddei</i> H.Lev. & Vaniot 뽕썩	HS111154					U
<i>Artemisia gmelini</i> Weber ex Stechm. 더위지기	HS111087					M,P
<i>Artemisia japonica</i> Thunb. 제비썩	HS111120					E,P
<i>Artemisia keiskeana</i> Miq. 맑은대썩	HS111208					E,M,P
<i>Artemisia princeps</i> Pamp. 썩	HS111211					U
<i>Artemisia stolonifera</i> (Maxim.) Kom. 넓은잎외썩	HS111302					E,P
<i>Aster ageratoides</i> Turcz. 까실썩부쟁이	HS111035					U
<i>Aster hispidus</i> Thunb. 갯썩부쟁이						E,M
<i>Aster incisus</i> Fisch. 가새썩부쟁이	HS111046					U
<i>Aster pilosus</i> Willd. 미국썩부쟁이	HS111026				O	U
<i>Aster scaber</i> Thunb. 참취	HS111300					E,P
<i>Aster tataricus</i> L.f. 개미취	HS111197					E,M,P
<i>Aster yomena</i> (Kitam.) Honda 썩부쟁이						U
<i>Atractylodes ovata</i> (Thunb.) DC. 삼주	HS111231					E,M,P
<i>Bidens frondosa</i> L. 미국가막사리	HS111106				O	P
<i>Carduus crispus</i> L. 지느러미영경귀					O	E,M
<i>Carpesium divaricatum</i> Siebold & Zucc. 긴담배풀	HS111051					E,M
<i>Carpesium triste</i> Maxim. 두메담배풀						U
<i>Chrysanthemum leucanthemum</i> L. 불란서국화					O	U
<i>Cirsium japonicum</i> var. <i>maackii</i> (Maxim.) Matsum. 영경귀	HS111315					E,M,P
<i>Cirsium pendulum</i> Fisch. ex DC. 큰영경귀				I		E
<i>Cirsium setidens</i> (Dunn) Nakai 고려영경귀	HS111313		O	II		E
<i>Conyza canadensis</i> (L.) Cronquist 망초					O	E
<i>Cosmos bipinnatus</i> Cav. 코스모스					O	U

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Scientific name/Korean name	1	2	3	4	5	6
<i>Crepidiastrum denticulatum</i> (Houtt.) Pak & Kawano 이고들빼기	HS111074					E,P
<i>Dendranthema zawadskii</i> (Herb.) Tzvelev 산구절초	HS111224					M,P
<i>Dendranthema zawadskii</i> var. <i>latilobum</i> (Maxim.) Kitam. 구절초	HS111239					M,P
<i>Erigeron annuus</i> (L.) Pers. 개망초					O	E
<i>Eupatorium japonicum</i> Thunb. 등골나물						E,P
<i>Eupatorium lindleyanum</i> DC. 골등골나물	HS111084					E,P
<i>Hemistepta lyrata</i> Bunge 지칭개						E,P
<i>Hieracium umbellatum</i> L. 조밥나물	HS111112					E,P
<i>Ixeridium dentatum</i> (Thunb.) Tzvelev 썸바귀						E,M,P
<i>Ixeris debilis</i> (Thunb.) A.Gray 벌썸바귀						E,P
<i>Ixeris polycephala</i> Cass. 벌썸바귀						E,P
<i>Ixeris stolonifera</i> A.Gray 좁썸바귀	HS110430					P
<i>Ixeris strigosa</i> (H.Lev. & Vaniot) J.H.Pak & Kawano 선썸바귀						E,P
<i>Lactuca indica</i> f. <i>indivisa</i> (Makino) Hara 가는잎왕고들빼기	HS111031					E,P
<i>Lactuca indica</i> L. 왕고들빼기						E,M,P
<i>Lactuca raddeana</i> Maxim. 산썸바귀	HS111185					E,P
<i>Lactuca triangulata</i> Maxim. 두메고들빼기	HS111079					P
<i>Leibnitia anandria</i> (L.) Turcz. 습나물	HS111187					E,P
<i>Leontopodium japonicum</i> Miq. 왜송다리	HS110445	VU		IV		
<i>Ligularia fischeri</i> (Ledeb.) Turcz. 곰취	HS111209			II		E
<i>Picris hieracioides</i> var. <i>koreana</i> Kitam. 쇠서나물	HS111125					E,P
<i>Saussurea gracilis</i> Maxim. 은분취						P
<i>Saussurea grandifolia</i> Maxim. 서덜취	HS111206					E,P
<i>Saussurea seoulensis</i> Nakai 분취	HS111205		O			E,P
<i>Saussurea tanakae</i> Franch. & Sav. ex Maxim. 당분취	HS111204					P
<i>Serratula coronata</i> var. <i>insularis</i> (Iljin) Kitam. 산비장이						E
<i>Sigesbeckia pubescens</i> (Makino) Makino 털진득찰						M,P
<i>Solidago virgaurea</i> subsp. <i>asiatica</i> Kitam. ex Hara 미역취	HS111091					E,M
<i>Syneilesis palmata</i> (Thunb.) Maxim. 우산나물	HS111094					U
<i>Synurus deltooides</i> (Aiton) Nakai 수리취	HS111296					E,P
<i>Taraxacum officinale</i> Weber 서양민들레					O	E
<i>Taraxacum platycarpum</i> Dahlst. 민들레						E,M
Liliaceae 백합과						
<i>Allium macrostemon</i> Bunge 산달래	HS111330					E
<i>Allium sacculiferum</i> Maxim. 참산부추	HS111306					E
<i>Allium thunbergii</i> G.Don 산부추	HS111147					E
<i>Convallaria keiskei</i> Miq. 은방울꽃						M,P
<i>Disporum smilacinum</i> A.Gray 애기나리	HS111347					E,P
<i>Disporum viridescens</i> (Maxim.) Nakai 큰애기나리	HS110434					E,P
<i>Erythronium japonicum</i> (Balrer) Decne. 얼레지				I		E,M
<i>Heloniopsis koreana</i> Fuse, N.S.Lee & M.N. Tamura 처녀치마	L110787		O	II		U
<i>Hemerocallis coreana</i> Nakai 꿀잎원추리	HS111235					E,O,P
<i>Hemerocallis minor</i> Mill. 애기원추리	HS111098					E,O,P
<i>Hosta longipes</i> (Franch. & Sav.) Matsum. 비비추						E,P
<i>Lilium amabile</i> Palib. 털종나리						E,M
<i>Lilium distichum</i> Nakai ex Kamib. 말나리						E
<i>Lilium tsingtauense</i> Gilg 하늘말나리	HS111099	LC		II		E,M,O,P
<i>Polygonatum inflatum</i> Kom. 통동굴레	JJ110458					U
<i>Polygonatum involucreatum</i> (Franch. & Sav.) Maxim. 용동굴레	HS111157					E,P
<i>Polygonatum odoratum</i> var. <i>pluriflorum</i> (Miq.) Ohwi 통굴레	HS110417					E,P
<i>Scilla scilloides</i> (Lindl.) Druce 무릇						E
<i>Smilacina japonica</i> A.Gray 풀썸대						U
<i>Smilax china</i> L. 청미래덩굴						E,M,P
<i>Smilax nipponica</i> Miq. 선밀나물						E,P
<i>Smilax sieboldii</i> f. <i>intermis</i> (Nakai) Hara 민청가시덩굴						E,P
<i>Smilax sieboldii</i> Miq. 청가시덩굴						E,P
<i>Streptopus ovalis</i> (Ohwi) F.T.Wang & Y.C.Tang 금강애기나리	L110783	LC		II		U
<i>Veratrum maackii</i> var. <i>japonicum</i> (Baker) T.Schmizu 여로	HS111095					M
<i>Veratrum maackii</i> var. <i>parviflorum</i> (Maxim.) Hara 파란여로						M
Dioscoreaceae 마과						
<i>Dioscorea batatas</i> Decne. 마						E,M,P
<i>Dioscorea nipponica</i> Makino 부채마						E,P
Iridaceae 붓꽃과						
<i>Iris sanguinea</i> Donn ex Horn 붓꽃						M,O,P
Juncaceae 골풀과						
<i>Juncus effusus</i> var. <i>decepiens</i> Buchenau 골풀	HS111050					M,P
<i>Juncus tenuis</i> Willd. 길골풀	HS110449					U
Commelinaceae 닭의장풀과						
<i>Commelina communis</i> L. 닭의장풀	HS111264					E,M,P
<i>Streptolirion volubile</i> Edgew. 덩굴닭의장풀	HS111040					E
Gramineae 벼과						
<i>Agropyron ciliare</i> (Trin.) Franch. 속털개밀						P
<i>Agropyron repens</i> (L.) P.Beauv. 구주개밀	HS111309				O	U
<i>Agropyron tsukushiense</i> var. <i>transiens</i> (Hack.) Ohwi 개밀						P

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Scientific name/Korean name	1	2	3	4	5	6
<i>Agrostis clavata</i> Trin. 산겨이삭	HS110455					P
<i>Agrostis clavata</i> var. <i>nukabo</i> Ohwi 겨이삭						P
<i>Alopecurus aequalis</i> Sobol. 뚝새풀						P
<i>Arundinella hirta</i> (Thunb.) Koidz. 새						P
<i>Arundinella hirta</i> var. <i>ciliata</i> Koidz. 털새	HS111210					U
<i>Bromus japonicus</i> Thunb. 참새귀리						P
<i>Calamagrostis arundinacea</i> (L.) Roth 실새풀	HS111301					P
<i>Dactylis glomerata</i> L. 오리새					O	P
<i>Diarrhena fauriei</i> (Hack.) Ohwi 광릉홍수염	HS111077			III		P
<i>Diarrhena mandshurica</i> Maxim. 겁질홍수염	HS111092			I		P
<i>Digitaria ciliaris</i> (Retz.) Koel. 바랭이	HS111177					U
<i>Digitaria violascens</i> Link 민바랭이	HS111149					P
<i>Eragrostis ferruginea</i> (Thunb.) P.Beauv. 그렁	HS111200					P
<i>Eragrostis multicaulis</i> Steud. 비노리						P
<i>Eriochloa villosa</i> (Thunb.) Kunth 나도개피	HS111276					P
<i>Festuca arundinacea</i> Schreb. 큰김의털	HS110454				O	U
<i>Festuca ovina</i> L. 김의털	HS110447					P
<i>Festuca parvigluma</i> Steud. 김의털아재비						P
<i>Festuca rubra</i> L. 왕김의털				IV		P
<i>Hemarthria sibirica</i> (Gand.) Ohwi 쇠치기풀	HS111180					P
<i>Hierochloa odorata</i> (L.) P.Beauv. 향모						U
<i>Koeleria cristata</i> (L.) Pers. 도랭이피						P
<i>Lolium perenne</i> L. 호밀풀	HS110450				O	U
<i>Melica nutans</i> L. 왕쌀새	HS110426			II		P
<i>Melica onoei</i> Franch. & Sav. 쌀새	HS111066					P
<i>Miscanthus sinensis</i> var. <i>purpurascens</i> (Andersson) Rendle 역새	HS111049					P
<i>Muhlenbergia huegelii</i> Trin. 큰쥐꼬리새	HS111141					P
<i>Panicum bisulcatum</i> Thunb. 개기장	HS111274					E,P
<i>Pennisetum alopecuroides</i> (L.) Spreng. 수크령						P
<i>Phaenosperma globosa</i> Munro ex Benth. 산기장	JJ110461			III		P
<i>Phalaris arundinacea</i> L. 갈풀						P
<i>Phragmites communis</i> Trin. 갈대						M,P
<i>Phragmites japonica</i> Steud. 달뿌리풀	HS111126					M,P
<i>Poa acroleuca</i> Steud. 실폐아풀	JJ110462					P
<i>Poa pratensis</i> L. 왕포아풀					O	P
<i>Poa sphondylodes</i> Trin. 포아풀	HS110453					P
<i>Poa viridula</i> Palib. 청포아풀				IV		P
<i>Setaria faberii</i> Herrm. 가을강아지풀	HS111047					P
<i>Setaria glauca</i> (L.) P.Beauv. 금강아지풀	HS111030					P
<i>Setaria viridis</i> (L.) P.Beauv. 강아지풀	HS111100					P
<i>Spodipogon cotulifer</i> (Thunb.) Hack. 기름새						P
<i>Spodipogon sibiricus</i> Trin. 큰기름새	HS111299					P
<i>Stipa pekinensis</i> Hance 나래새	HS111086					P
<i>Trisetum bifidum</i> (Thunb.) Ohwi 잠자리피	HS110458					P
<i>Zoysia japonica</i> Steud. 잔디(식재)	HS111196					O
Araceae 천남성과						
<i>Arisaema amurense</i> Maxim. 둥근일천남성	JJ110450					M,P
<i>Arisaema peninsulae</i> Nakai 점박이천남성						M,P
Cyperaceae 사초과						
<i>Carex bostrychostigma</i> Maxim. 길뚝사초						P
<i>Carex ciliatomarginata</i> Nakai 털대사초						P
<i>Carex dispalata</i> Boott 샷갓사초	HS111104					P
<i>Carex forficula</i> Franch. & Sav. 산뚝사초	L110799					P
<i>Carex glabrescens</i> Ohwi 곱슬사초	HS110452					P
<i>Carex humilis</i> var. <i>nana</i> (H.Lev. & Vaniot) Ohwi 가는잎그늘사초	HS110424					P
<i>Carex jaluensis</i> Kom. 참샷갓사초	L110773			III		P
<i>Carex japonica</i> Thunb. 개쩌버리사초	HS110456					P
<i>Carex leiorhyncha</i> C.A.Mey. 산쟁이사초	HS110419					P
<i>Carex maackii</i> Maxim. 타래사초	L110781			I		P
<i>Carex neurocarpa</i> Maxim. 썩이사초	HS111339					P
<i>Carex polyschoena</i> H.Lev. & Vaniot 가지청사초	HS110428					P
<i>Carex siderosticta</i> Hance 대사초						P
Orchidaceae 난초과						
<i>Cephalanthera longibracteata</i> Blume 은대난초	JJ110463					U
<i>Liparis kumokiri</i> F.Maek. 옥잠난초						U
<i>Spiranthes sinensis</i> (Pers.) Ames 타래난초	HS111194					U

1 = voucher; 2 = rare plants (Forest Service); 3 = endemic plants; 4 = floristics special plant (Ministry of environment I, II, III, IV, V); 5 = naturalized plants; 6 = use of plants; E = edible; F = fiber; I = industrial; M = medicinal; O = ornamental; P = pastures; T = timber; U = unknown.

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