



Dispersion of Vascular Plant in An-do, Korea

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Abstract : The vascular plants observed in the area were composed of a total of 342 taxa; 104 families, 239 genus, 309 species, 30 varieties, 2 forms and 1 sub-species. The endangered species found in the area were *Glehnia littoralis* Fr. Schm. and *Milletia japonica* (Siebold & Zucc.) A.Gray. The five endemic plants were found growing in the area like *Carpinus coreana* Nakai., *Celtis choseniana* Nakai, *Clematis trichotoma*, *Spiraea prunifolia* for. *simpliciflora* and *Weigela subsessilis* L.H.Bailey. Specialized plants of Geumodo were a total of 45 species; 34 taxa in Grade I, 10 taxa in Grade III, and 1 taxon in Grade V. *Glehnia littoralis* Fr. Schm. and *Milletia japonica* (Siebold & Zucc.) A.Gray confirmed in this study formed a colony alongside the coast and mountain paths. Currently, the construction to build water supply and sewer systems destroyed part of the colony. Therefore, in the long-term perspective, the conservation plan such as comprehensive research and monitoring on the ecosystem shall be established to protect indeciduous plants in the warm temperate zone.

Key words : Endemic plants, Conservation plan, Warm temperate zone

Introduction

Geumodo belongs to Nam-myeon, Yeosu-si, Jeollanamdo. It is part of the Geumo Archipelago composed of neighboring islands. In particular, it boasts of beautiful natural environment which was designated as Dadohae Marine National Park stretching from south of Dolsando to the Geumo Archipelago.

This area has excellent nature and well-preserved natural environment. So, recently an increasing number of tourists visit the islands including neighboring Ando and Yeondo.

Yeosu Peninsula stretches down south from Suncheon past Yecheon-si and forks west to Yecheon-gun and east to Dolsando. The center pushes a bay into the land. Dogakji, to the direction of Yeoncheon-gun, and Dolsando drew closer and extended to the Geumo Archipelago on the south.

Ando belongs to Ando-ri, Nam-myeon, Yeosu-si. Gwanmaedo is located in Gwanmaedo-ri, Jodo-myeon, Jindo-gun, Hwawon Peninsula and Haenam Peninsula are located in Hwawon-myeon and Bukpyeong-myeon, Haenam-gun. Wando, Sinjido and Gogeumdo belong to Wando-eup, Sinji-myeon, and Gogeum-myeon, respectively.

Ando is an island formed when the southern tip of Dongbu offshoot, one of the primary offshoots of Sobaek

Mountains, submerged. Sangsan (Mt) with two peaks is located in the center of the island and the peak protruding from the center headed for the shore. This formed a rias coast with a complexity of indentations. Its geology is the Cretaceous neutral volcanic rocks.

Its soil is widely distributed at a depth of 0.5 to 2.0 m on the gentle slopes or flat areas, which is the work of accelerated chemical weathering.

Ando belongs to the Namhaesan Type in terms of the Korean climate classification and has temperate oceanic climate as the area is greatly affected by the Tsushima Warm Current, which is a branch of the Kuroshio Current and Yellow Sea Warm Current. An average annual temperature is 14.44°C and annual rainfall is 1,361.7mm. The rainfall in June to August accounts for 50 to 60% of the total rainfall due to torrential downpour which often accompanies the seasonal rain front and typhoons in the summertime.

Materials and Methods

This study was conducted twice in Ando area, part of the Geumo Archipelago from June to September, 2008. For the distribution of vascular plants, 1:25,000 topographical map produced by the National Geographic Information Institute ("NGII") and GPS were used to make a list of plants and specific plants were recorded. Appearing vascular plants were identified on the spot. If not possible, the plants were identified after being collected. Flora was arranged

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Fig. 1. Map of the surveyed routes in An-do.

according to Lee (1980) which followed Tippo & Fuller System. However, the arrangement of dicotyledon and monocotyledon was changed in consideration of plant genealogy. The research findings of Lee (1982) and Baik (1994) were referred to for native plants while the materials of the Korea Forest Service (1996) and the Ministry of Environment (2005) were referred to for rare and endangered plants. Floristically specific plants were classified as Grade V to I in accordance with the 2nd National natural environment research guidelines (Ministry of Environment, 2006).

Results and Discussion

Distribution of vascular plants in An-do

The vascular plants observed in the area were composed of a total of 342 taxa including transplanted species; 104 families, 239 genuses, 309 species, 30 varieties, 2 forms and 1 sub-species. Among the vascular plants recorded, the ferns consisted of 22 taxa; 10 families, 16 genuses, 22 species, and 29 varieties and gymnosperms consisted of 8

Table 2. The list of rare and endangered plants in An-do

Family name	Scientific name	Korean name
Umbelliferae	<i>Glehnia littoralis</i> Fr. schm.	갯방풍
Leguminosae	<i>Milletia japonica</i> A. gray	에기등

taxa; 4 families, 5 genuses and 8 species. Dicotyledon was made up of 257 taxa (79 families, 177 genuses, 225 species, 29 varieties, 2 forms and 1 sub-species) and monocotyledon was made up of 55 taxa (11 families, 41 genuses, 54 species and 1 variety). See Table 1.

On the Ando area, warm-temperate broad-leaved forests are dominant. *Cyrtomium falcatum* (L.) Presl., *Elaeagnus macrophylla* Thunb, *Fatsia japonica*, *Ficus erecta* Thunb, and *Litsea japonica* Juss grow alongside the coastal line and *Pinus thunbergii* Parlatores is dominant on the island. *Castanopsis cuspidata* var. *sieboldii* Nakai and *Camellia japonica* Linne communities grow on the undestroyed part of the area and *Eurya japonica* Thunb, *Rhus chinensis* Mill, *Litsea japonica* juss and *Ficus erecta* Thunb, live in the shrubby zone. *Ardisia japonica*, *Liriope platyphylla* and *Trachelospermum asiaticum* var. *intermedium* Nakai are mixed on the lower zone. In this study, massive communities of *Milletia japonica* (Siebold & Zucc.) A.Gray, which had not been studied, were found in some parts. Currently, some parts of the communities were destroyed by the construction of water supply and sewage systems.

Rare and endangered plants

The rare or endangered species found in the Ando area were *Glehnia littoralis* Fr. Schm. and *Milletia japonica* (Siebold & Zucc.) A.Gray. except the transplanted species. At present, *Glehnia littoralis* Fr. Schm. only remains on some parts of coastal sand hills and about 100 individuals of *Milletia japonica* (Siebold & Zucc.) A.Gray form a large community alongside mountain paths, but some parts were destroyed by the construction of the water supply and sewage systems.

Korean endemic plants

Except transplanted species, the endemic plants are five species including *Carpinus coreana* Nakai, *Celtis choseniana*, *Clematis trichotoma*, *Spiraea prunifolia* var. *simpliciflora* and *Weigela subsessilis* L. H. Bailey, which represents 1.4% of the entire vascular plants, 346 taxa, on the island

Table 1. The number of vascular plants distributed in An-do

Class of tracheophyta	Family	Genus	Species	Variety	Forma	Subsp.	Hybrid	Total
Pteridophyta	10	16	22					22
Gymnospermae	4	5	8					8
Angiospermae Dicotyledoneae	79	177	225	29	2	1		257
Monocotyledoneae	11	41	54	1				55
Total	104	239	309	30	2	1		342



Fig. 2. *Milletia japonica* A. Gray.

and 0.8% of the Korean native plants, 570 taxa (Baik, 1994).

Specialized plants

Specialized plants found in Ando (except the transplanted species) were composed of 45 species; 34 taxa in Grade 1, 10 taxa in Grade III, and 1 taxon in Grade V. (Table 4) Among them, *Milletia japonica* (Siebold & Zucc.) A.Gray in the floristically important Grade V, is exposed to man-made risks because it grows mountain paths.

Conservation measures

Though warm-temperate, deciduous broad-leaved forests appear in major zones of Ando, they are exposed to risks of

destruction because they girdle or are speckled on some parts. It is imperative to raise the awareness of residents regarding environmental protection and to pay extra caution to the storage places of fishing tools such as nets to preserve the warm-temperate broad-leaved forests. In addition, as rare species or Ministry of Environment-designated specific plants are observed alongside roads and mountain paths, the conservation measures are urgent. As *Milletia japonica* (Siebold & Zucc.) A.Gray grow in masses along with the mountain paths, some of its habitat was destroyed by the water supply and sewage system constructions and still is exposed to man-made risks. Therefore, the monitoring and long-term protection measures should be urgently taken.

Table 3. The list of the Korean endemic plants in An-do

Family name	Scientific name	Korean name
Betulaceae	<i>Capinus coreana</i> Nakai	소사나무
Ulnaceae	<i>Celtis chosenian</i> Nakai	검쟁나무
Caryophyllaceae	<i>Clematis trichotoma</i> Nakai	할미밀망
Rosaceae	<i>Spiraea prunifolia</i> var. <i>simliciflora</i> Nakai	조팝나무
Caprifoliaceae	<i>Weigela subsessilis</i> L.H. Bailey	병꽃나무

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Table 4. The list of specialized plants in An-do

Degree	Scientific name (Korean name)
I	<i>Lygodium japonicum</i> (Thunb.) Sw. (설고사리), <i>Gleichenia japonica</i> Spreng (풀고사리), <i>Cytomium fortunei</i> J. Smith (쇠고비), <i>Lemmaphyllum microphyllum</i> Pre. (콩짜개덩굴), <i>Chloranthus japonicus</i> Sieb. (홀아비꽃대), <i>Alnus hirsuta</i> (Spach) Rurr. (물오리나무), <i>Castanopsis cuspidata</i> var. <i>sieboldii</i> Nakai (구실갓밤나무), <i>Quercus variabilis</i> Bl. (굴참나무), <i>Ulmus parvifolia</i> Jacq. (참느릅나무), <i>Ficus erecta</i> var. <i>sieboldii</i> King (좁은잎천선과나무), <i>Ficus erecta</i> Thunb. (천선과나무), <i>Tetragonia tetragonoides</i> O. Kuntze (변행초), <i>Machilus thunbergii</i> A. et Z. (후박나무), <i>Neolitsea sericea</i> (BL.) Koidz. (참식나무), <i>Pittosporum tobira</i> Ait. (뽕나무), <i>Rubus hirsutus</i> Thunb. (장팔기), <i>Zanthoxylum planispinum</i> S. et Z. (개산초), <i>Euonymus japonica</i> Thunb. (사철나무), <i>Meliosma myriantha</i> S. et Z. (나도밤나무), <i>Cayratia japonica</i> (Thunb.) Gagnep. (거지덩굴), <i>Grewia biloba</i> var. <i>parviflora</i> (Bunge) Hanf.-Maz. (장구밥나무), <i>Camellia japonica</i> L. (동백나무), <i>Eurya japonica</i> Thunb. (사스레피나무), <i>Elaeagnus macrophylla</i> Thunb. (보리밥나무), <i>Hedera rohmbea</i> Bean. (송악), <i>Glehnia littoralis</i> Fr. Schm. (갯방풍), <i>Aucuba japonica</i> Thunb. (식나무), <i>Ardisia japonica</i> Bl. (자금유), <i>Ligustrum japonicum</i> Thunb. (광나무), <i>Vitex rotundifolia</i> L. fil. (순비기나무), <i>Arisaema ringens</i> Schott (큰천남성), <i>Allium tuerosum</i> Roth. (부추), <i>Ophiopogon jaburan</i> (Kunth) Lodd. (백문아재비)
II	-
III	<i>Kadcurea japonica</i> Dunal. (남오미자), <i>Cinamomum japonicum</i> Sieb. (생달나무), <i>Litsea japonica</i> Juss. (까마귀쪽나무), <i>Melia azedarach</i> var. <i>japonica</i> Makino (별구슬나무), <i>Rhus succedanea</i> L. (검양옷나무), <i>Eurya emarginata</i> (Thunb.) Makino (우묵사스레피), <i>Fatsia japonica</i> Decne. et Planch. (팔손이), <i>Callicarpa mollis</i> S. et Z. (새비나무), <i>Phaenosperma globosa</i> Munro (산기장), <i>Hosta capitata</i> Nakai (일월비비추)
IV	-
V	<i>Milletia japonica</i> A. Gray (애기등)

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Appendix 1. List of vascular plants distributed in An-do

Selaginellaceae 부처손과

Selaginella rossii (Bak.) Warb. 구실사리
Selaginella involvens (Sw.) Spring 바위손
Selaginella tamariscina (Beauv.) Spring 부처손

Equisetaceae 속새과

Equisetum arvense L. 쇠뜨기

Osaindaceae 고비과

Osmaunda japonica Thunb. 고비

Schizaeaceae 실고사리과

Lygodium japonicum (Thunb.) Sw. 실고사리

Gleicheniaceae 풀고사리과

Gleichenia japonica Spreng 풀고사리

Pteridaceae 고사리과

Dennstaedtia wilfordii (Moore) Christ. 황고사리

Davalliaceae 넝쿨고사리과

Davallia mariesii Moore 넝쿨고사리

Nephrolepis cordifolia 줄고사리

Aspidiaceae 먼마과

Polystichum tripton (Kunze) Persl 십자고사리

Cyrtomium falcatum (L.f.) C.Presl 도깨비쇠고비

Cyrtomium fortunei J.Smith 쇠고비

Dryopteris crassirhizoma Nakai 관중

Dryopteris chinensis (Baker) Koidz. 가는잎죽제비고사리

Dryopteris varia (L.) Kuntze 죽제비고사리

Athyrium yokoscense (FR. Et. SAV.) H.Christ 뱀고사리

Aspleniaceae 꼬리고사리과

Asplenium incisum Thunb. 꼬리고사리

Asplenium vidalii (Franch. & Sav.) Nakai

Polypodiaceae 고란초과

Lemmaphyllum microphyllum Pre. 콩짜개덩굴

Ginkgoaceae 은행과

Ginkgo biloba L. 은행나무

Pinaceae 소나무과

Pinus parviflora S.et Z. 섬잣나무

Pinus rigida Mill. 리기다소나무

Pinus densiflora S.et Z. 소나무

Pinus thunbergii Parl. 곰솔

Taxodiaceae 낙우송과

Cryptomeria japonica (L.fil.) D.Don 삼나무

Cupressaceae 측백나무과

Chamaecyparis obtusa (S.et Z.) En. 편백

Juniperus rigida S.et Z. 노간주나무

Gramineae 벼과

Phyllostachys bambusoides S.et Z 왕대

Sasa coeana Nakai 신이대

Sasa borealis (Hack.) Makino 조릿대

Pseudosasa japonica Makino 이대

Beckmannia syzigachne (Steud.) Fern. 개피

Calamagrostis arundinacea (L.) Roth 실새풀

Avena fatva L. 메귀리

Agropyron tsukushiense var. *transiens* (Hack.) Ohwi 개밀

Poa sphondylodes Trin. 포아풀

Phragmites communis Trin. 갈대

Phaenospema globosa Munro 산기장

Eragrostis ferruginea (Thunb.) P. Beauv. 그령

Zoysia japonica Steud. 잔디

Agrostis clavata var. *nukabo* Ohwi 겨이삭

Arundinella hrita (Thunb.) Tanaka 새

Pennisetum alopecuroides (L.) Spreng. 수크령

Setaria italica (L.) Beauv. 조

Setaria viridis (L.) Beauv. 강아지풀

Digitaria sanguinalis (L.) Scop. 바랭이

Oplisenus undulatifolius (Ard.) Roem.Et Schult. 주름조개풀

Echionochloa crus-galli (L.) Beauv. 돌피

Imperata cylindrica var. *koerigii* (Retz.) Durand Et Schinz 띠

Miscanthus sachariflorus Benth. 물억새

Misxanthus sinensis var. *purpurascens* Rebdle 억새

Spodiopogon cotulifer (Thunb.) Hack. 기름새

Cyperaceae 사초과

Carex neurocarpa Max. 팽이사초

Carex humilis Leyss. 산거울

Carex lanceolata A. Gray 그늘사초

Scirpus karuizawensis Makino 솔방울고랭이

Lipocarpa (R. BR.) Kunth 세대가리

Cyperus sanguinolentus Vahl. 방동사니대가리

Cyperus amuricus Max. 방동사니

Kyllinga brevifolia var. *leioplepis* Hara 파대가리

Araceae 천남성과

Pinellia ternata (Thunb.) Breit. 반하

Arisaema ringens Schott 큰천남성

Arisaema amurense var. *serratum* Nakai 천남성

Eriocaulaceae 곡정초과

Eriocaulon sieboldianum S.et Z. 곡정초

Commelinaceae 닭의장풀과

Commelina communis L. 닭의장풀

Juncaceae 골풀과

Juncus effusus var. *decepiens* Buchen. 골풀

Juncus setchuensis var. *effusoides* Buchenau 푸른갯골풀

Liliaceae 백합과

Hosta capitata Nakai 일월비비추

Hosta longipes (FR. Et Sav.) Matsumura 비비추

Hermerocallis fulva L. 원추리

Allium tuerosum Roth. 부추

Allium thunbergii G Don 산부추

Lilium tsingtauense Gilg 하늘말나리

Scilla scilloides (Lind.) Druce 무릇

Asparagus schoberioides Kunth 비짜루

Asparagus cochinchinensis (Lour.) Merr. 천문동

Polygonatum odoratum var. *pluriflorum* Ohwi 등굴레

Liriope platyphylla Wang et Tang 맥문동

Ophiopogon jaburan (Kunth) Lodd. 맥문아재비

Smilax china L. 청미래덩굴

Smilax sieboldii Miq. 청가시덩굴

Amarylidaceae 수선화과

Narcissus tazetta var. *chinensis* Roem. 수선화

Agavaceae 용설란과

Yucca aloifolia L. 유카

Dioscoreaceae 마과

Dioscorea vatatas Decne. 마

Dioscorea thkoro Makino 도꼬로마

Dioscorea quinqueloba Thunb. 단풍마

Orchidaceae 난초과

Amitostigma gracilis (Bl.) Schlecht. 병아리난초

Cymbidium goeringii Reichb. fil. 보춘화

Chloranthaceae 홀아비꽃대과

Chloranthus japonicus Sieb. 홀아비꽃대

Salicaceae 버드나무과

Populus nigra var. *italica* 양버들

Salix gracilistyla Miq 깃버들

Juglanaceae 가래나무과

Platycarya strobilacea S. et 굴피나무

Betulaceae 자작나무과

Alnus hirsuta (Spach) Rupr. 물오리나무

Alnus firma S. et Z. 사방오리

Capinus coreana Nakai 소사나무

Fagaceae 참나무과

Castanea crenata S. et Z. 밤나무

Castanopsis cuspidata var. *sieboldii* Nakai 구실잣밤나무

Quercus acutissima Carruth. 상수리나무

Quercus variabilis Bl. 굴참나무

Ulmaceae 느릅나무과

Ulmus parvifolia Jacq. 참느릅나무

Ulmus davidiana var. *japonica* Nak. 느릅나무

Zelkova sereata Makino 느티나무

Celtis chosenian Nakai 검팽나무

Moraceae 뽕나무과

Cudeania tricuspidata Bureau 꾸지뽕나무

Morus bombycis Koidz. 산뽕나무

Broussonetia papyrifera (L.) L'Her. ex Vent. 꾸지나무

Ficus erecta var. *seiboldii* King 좁은잎천선과나무

Ficus erecta Thunb. 천선과나무

Ficus nipponica Rg. et Sav. 모람

Ficus carica L. 무화과

Cannabaceae 삼과

Humulus japonicus S. et Z. 환삼덩굴

Urticaceae 켄기풀과

Urtica thunbergiana S. et Z. 켄기풀

Boehmeria nivea (L.) Gaudich. 모시풀

Boehmeria spicata Thunb. 좁게잎나무

Boehmeria platanifolia Fr. et Sav. 개모시풀

Polygonaceae 마디풀과

Rumex acetosa L. 수영

Rumex japonicus Houtt. 참소리쟁이

Rumex crispus L. 소리쟁이

Persicaria perfoliata H. Gross 머느리배꼽

Persicaria senticosa Gross 머느리밑씻개

Persicaria thunbergii H. Gross 고마리

Persicaria hydropiper (L.) Spach 여뀌

Fagopyrum aviculare L. 마디풀

Persicaria esculentum Moench 메밀

Chenopodiaceae 명아주과

Chenopodium album var. *centrorunbrum* Makino 명아주

Amaranthaceae 비름과

Amaranthus mangostanus L. 비름

Celosia cristata L. 맨드라미

Achyranthes japonica (Miq.) Nakai 쇠무릎

Nyctaginaceae 분꽃과

Mirabilis jalapa L. 분꽃

Phytolaccaceae 자리공과

Phytolacca esculenta V.Houtte 자리공

Aizoaceae 석류풀과

Tetragonia tetragonoides O. Kuntze 변행초

Mollugo penraphylla L. 석류풀

Portulacaceae 쇠비름과

Portulaca oleraca L. 쇠비름

Caryophyllaceae 석주과

Pseudostellaria heterophylla (Miq.) Pax 개별꽃

Stellaria aquatica Scop. 쇠별꽃

Stellaria media Villars 별꽃

Ranunculaceae 미나리아재비과

Clematis mandshurica Rupr. 으아리

Clematis apiifolia A. P. Dc. 사위질뽕

Clematis trichotoma Nakai 할미밑방

Thalictrum aquilegifolium L. 꿩의다리

Lardizabalvceae 으름덩굴과

Akebia quinata Decne. 으름

Meniapermaceae 방기과

Cocculus trilobus Dc. 땡땡이덩굴

Magnoliaceae 목련과

Kadcurea japonica Dlnal. 남오미자

Lauraceae 녹나무과

Lindera obtusiloba Bl. 생강나무

Lindera glauca Bl. 감태나무

Lindera erythrocarpa Makino 비목나무

Cinamomum japonicum Sieb. 생달나무

Machilus thunbergii A. et Z. 후박나무

Neolitsea sericea (Bl.) Koidz. 참식나무

Litsea japonica Juss. 까마귀쪽나무

Papaveraceae 양귀비과

Chelidonium majus var. *asiaticum* (Hara) Ohwi 애기뽕풀

Fumariaceae 현호색과

Corydalis tutschaminovii Bess. 현호색

Corydalis heterocarpa S. et Z. 염주괴불주머니

Corydalis speciosa Mak. 산괴불주머니

Cruciferae 십자화과

Brassica campestris var. *chinensis* Tolto 유채

Lepidium apetalum Willd. 다닥냉이

Thlapi arvense L. 말냉이

Cardamine flexuosa With. 황새냉이

Cardamine leucanta O.E. Schulz 미나리냉이

Rorippa indica (L.) Hiem 개갓냉이

Rorippa islandica (OED.) Borb. 속속이풀

Draba nemorosa var. *hebecarpa* Lindel. 꽃다지

Arabis glabra (L.) Bernh. 장대나물

Crassulaceae 돌나무과

Sedum sarmentosum Bunge 돌나물

Sedum polystichoides Hemsl. 바위채송화

Pittosporaceae 돈나무과

Pittosporum tobira Ait. 돈나무

Platanaceae 버즘나무과

Pilatanus orientalis L. 버즘나무

Rosaceae 장미과

Spiraea prunifolia var. *simliciflora* Nakai 조팝나무

Stephanandra incisa Zabel 국수나무

Duchesnea chrysantha (Zoll. Et Morr) Miq. 뽕딸기

Potentilla fragarioides var. *major* Mak. 양지꽃

Rubus corchorifolous L. fil. 수리딸기

Rubus crataegifolius Bunge 산딸기

Rubus parvifolius L. 멧석딸기

Rubus coreanus Miq. 북분자딸기

Rubus hirsutus Thunb. 장딸기

Rubus oldhamii Miq. 줄딸기

Sanguisorba officinalis L. 오이풀

Agrimonia pilosa Ledeb. 짚신나물

Rosa wichuraiana Crep. 돌가시나무

Prunus sargentii Rehder 산벚나무

Leguminosae 콩과

Albizzia julibrissin Durazz. 자귀나무

Cassia mimosoidea var. *nomame* Makino 차풀

Lespedeza maximowiczii Schneid. 조록싸리

Lespedeza cyrtobotrya Miq. 참싸리

Lespedeza bicolor Turcz. 싸리

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- Lespedeza cuneata* G Don 비수리
Kummerowia striata (Thunb.) Schindl. 매듭풀
Kummerowia stipulacea (Mak.) Makino 둥근매듭풀
Aeschynomene indica L. 자귀풀
Vicia amoena Fisch. 갈퀴나물
Lathyrus japonica Willd. 갯완두
Rhynchosia volubilis Lour. 여우콩
Pueraria thunbergiana Benth. 칩
Glycine soja S. et Z. 들콩
Indigofera kirilowii Mak. 땅비싸리
Milletia japonica A. Gray 애기등
Robinia pseudo-acacia L. 아까시나무
Amorpha fruticosa L. 토끼풀
Gertaniaceae 쥐손이풀과
Ceranium sibiricum L. 쥐손이풀
Geranium thunbergii S. et Z. 이질풀
Oxalidaceae 팽이밥과
Oxalis corniculata L. 팽이밥
Rutaceae 운향과
Zanthoxylum planispinum S. et Z. 개산초
Zanthoxylum piperitum A.P.Dc. 초피나무
Zanthoxylum schinifolium S. et Z. 산초나무
Simaroubaceae 소태나무과
Picrama dassioides (D. Don) Benn. 소태나무
Meliaceae 멸구슬나무과
Melia azedarach var. *japonica* Makino 멸구슬나무
Euphorbiaceae 대극과
Mallotus japonicus Moell.- Arg. 예덕나무
Euphorbia helioscopia L. 등대풀
Anacardiaceae 옷나무과
Rhus chinensis Mill. 붉나무
Rhus succedanea L. 검양옷나무
Celastraceae 노랑덩굴과
Euonymus japonica Thunb. 사철나무
Euonymus alatus (Thunb.) Sieb. 화살나무
Celastrus orbiculatus Thunb. 노박덩굴
Aceraceae 단풍나무과
Acer palmatum Thunb. 단풍나무
Acer pseudo-sieboldianum (Paxton) Kom. 당단풍
Sabiaceae 나도밤나무과
Meliosma myriantha S. et Z. 나도밤나무
Balsaminaceae 봉선화과
Impatiens baleamina L. 봉선화
Rhamnaceae 갈매나무과
Sageretia theezans Bronen. 상동나무
Vitaceae 포도과
Vitis thunbergii var. *sinuata* (Regel) Rehder 까마귀머루
Ampelopsis brevipedunculata var. *heterophylla* (Thunb.) Hara 개머루
Ampelopsis brevipedunculata for. *citrullifolia* Rehdre 가새잎개머루
Parthenocissus tricuspidata (S. et Z.) Planch. 담쟁이덩굴
Cayratia japonica (Thunb.) Gagnep. 거지덩굴
Tiliaceae 피나무과
Grewia biloba var. *parviflora* (Bunge) Hand.- Maz. 장구밥나무
Malvaceae 아욱과
Althaea rosea Cav. 접시꽃
Hibiscus syriacus L. 무궁화
Theaceae 차나무과
Camellia japonica L. 동백나무
Eurya japonica Thunb. 사스레피나무
Eurya emarginata (Thunb.) Makino 우묵사스레피
Violaceae 제비꽃과
Viola mandshurica W, Becker 제비꽃
Viola acuminata Ledeb. 줄방제비꽃
Opuntiaceae 선인장과
Opuntia ficus-indica var. *saboten* Makino 선인장
Elacagnaceae 보리수나무과
Elaeagnus unbellata Thunb. 보리수나무
Elaeagnus macrophylla Thunb. 보리밥나무
Ongeraceae 바늘꽃과
Oenothera adorata Jacq 달맞이꽃
Alraliceae 두릅나무과
Hedera rohombea Bean. 송악
Fatsia japonica Decne. et Planch. 팔손이
Aralia elata Seem. 두릅나무
Umbelliferae 산형과
Torilis japonica (Houtt.) Dc. 사상자
Oenanthe javanica (Bl.) Dc. 미나리
Glehnia littoralis Fr. Schm. 갯방풍
Angelica decursiva (Miq.) Fr. et Sav. 바다나물
Peucedanum terebinthaceum Fisch. 기름나물
Ledebouria seseloides (Hoffm.) Wolff 방풍
Cornaceae 층층나무과
Aucuba japonica Thunb. 식나무
Pyrolaceae 노루발과
Pyrola japonica Klenze 노루발
Ericaceae 진달래과
Rhododendron mucronulatum Turcz. 진달래
Myrsinaceae 자금우과
Ardisia japonica Bl. 자금우
Primulaceae 앵초과
Lysimachia clethroides Duby 큰까치수영
Androsace umbellata (Lour.) Merr. 봄맞이
Ebenaceae 감나무과
Diospyros kaki Thunb. 감나무
Symplocaceae 노린재나무과
Symplocos paniculata Miq. 검노린재
Styracaceae 매죽나무과
Styrax japonica S. et Z. 매죽나무
Oleaceae 물푸레나무과
Fraxinus rhynchophylla Hance 물푸레나무
Ligustrum japonicum Thunb. 광나무
Ligustrum obtusifolium S. et Z. 쥐똥나무
Forsythia koreana Nakai 개나리
Gentianaceae 용담과
Gentiana squarrosa Ledeb. 구슬봉이
Gentiana zollingeri Fawc. 큰구슬봉이
Apocynaceae 협죽도과
Trachelospermum asiaticum var. *intermedium* Nakai 마삭줄
Trachelospermum asiaticum var. *majus* (Nakai) Ohwi 백화등
Nerium indicum Mill. 협죽도
Asclepiadaceae 박주가리과
Metaplexis japonica (Thunb.) Makino 박주가리
Convolvulaceae 메밀꽃과
Calystegia japonica (Thunb.) Chois. 메꽃
Calystegia soldanella (L.) Roem. & Schultb. 갯메꽃
Cuscuta japonica Chois. 새삼
Cuscuta australis R. Br. 실새삼
Borraginaceae 지치과
Symphytum officinale L. 킴프리
Trigonotis peduncularis Benth. 꽃마리
Verbanaceae 마편초과
Callicarpa japonica Thunb. 작살나무
Callicarpa mollis S. et Z. 새비나무
Clerodendron trichotomum Thunb. 누리장나무

Vitex rotundifolia L. Fil 순비기나무

Labiatae 꿀풀과

Ajuga decumbens Thunb. 금창초

Scutellaria indica L. 골무꽃

Scutellaria baicalensis Georgi 황금

Prunella vulgaris L. 익모초

Lamium amplexicaule L. 광대나물

Lamium album var. *Barbatum* (S. et Z.) FR. Et Sav. 광대수염

Mosla punctulata (Gmel.) Nakai 들깨풀

Mosla dianthera Max. 쥐깨풀

Isodon japonicus (Burm.) Hara 방아풀

Solanaceae 가지과

Lycium chinense Mill. 구기자나무

Solanum lyatum Thunb. 배풍동

Solanum nigrum L. 까마중

Scrophulariaceae 현삼과

Mazus japonicus (Burm.f) Van Steenis 주름잎

Veronica persica Poir. 큰개불알풀

Veronica polita var. *lilacina* (Hara) Yamazaki 개불알풀

Melampyrum roseum Max. 꽃머느리밥풀

Bignoniaceae 능소화과

Campsis grandiflora (Thunb) K. Schum. 능소화

Phrymaceae 파리풀과

Phryma leptostachya var. *asiatica* Hara 파리풀

Plantaginaceae 질경이과

Plantago asiatica L. 질경이

Subiaceae 꼭두서니과

Gardenia jasminoides for. *grandiflora* Makino 치자나무

Paeonia scandens (Lour.) Meer 계요등

Rubia akane Nakai 꼭두서니

Galium spurium L. 갈퀴덩굴

Caprifoliaceae 인동과

Viburnum awbuki K. Koch 아왜나무

Weigela subsessilis L.H. Bailey 병꽃나무

Lonicera japonica Thunb. 인동

Valerianaceae 마타리과

Patrinia scabiosaefolia Fisch. 마타리

Patrinia villosa (Thunb.) Juss. 똑갈

Cucurbitaceae 박과

Trichosanthes kirilowii Max. 하늘타리

Cucurbita moschata Duchesne 호박

Campanulaceae 초롱꽃과

Adenophora triphylla var. *japonica* Hara 잔대

Codonopsis lanceolata (S. et Z.) Trautv. 더덕

Platycodon grandiflorum (Jacq.) A. DC 도라지

Compositae 국화과

Gnaphalium affine D. Don. 떡쭉

Helianthus annuus L. 해바라기

Eupatorium chinense var. *simplicifolium* Kitamura 등골나물

Eupatorium fortunei Turcz. 벌등골나물

Aster yomena Makino 쭉부쟁이

Aster scaber Thunb. 참취

Aster spathulifolius Mx. 해국

Erigeron annuus (L.) Pers. 개망초

Erigeron canadensis L. 망초

Petasites japonicus (S. et Z.) Max. 머위

Erechtites hieracifolia Raf. 붉은서나물

Senecio vulgaris L. 개쑥갓

Chrysanthemum boreale Makino 산국

Artemisia capillaris Thunb. 사철쑥

Artemisia japonica Thunb. 제비쑥

Artemisia keiskeana Miq. 맑은대쑥

Artemisia princeps var. *orientalis* (Pampan.) Hara 쑥

Eclipta prostrata L. 한련초

Rudbeckia bicolor Nutt. 원추천인국

Atractylodes japonica Koidz. 삼주

Cirsium japonicum var. *ussuriense* Kitamura 엉겅퀴

Hemistepta lyrata Bunge 지칭개

Cephalonoplos segetum (Bunge) Kitamura 조뱅이

Cosmos bipinnatus Cav. 코스모스