

# Taxonomic Status of Endemic Plants in Korea

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**ABSTRACT:** Disagreement among the various publications providing lists of Korean endemic plants makes confusion inevitable. We summarized the six previous reports providing comprehensive lists of endemic plants in Korea: 407 taxa in Lee (1982), 570 taxa in Paik (1994), 759 taxa in Kim (2004), 328 taxa in Korea National Arboretum (2005), 515 taxa in the Ministry of Environment (2005) and 289 taxa in Flora of Korea Editorial Committee (2007). The total number of endemic plants described in the previous reports was 970 taxa, including 89 families, 302 genera, 496 species, 3 subspecies, 218 varieties, and 253 formae. Endemic plants listed four times or more were collected to compare the data in terms of scientific names and synonyms (339 taxa in 59 families and 155 genera). If the varieties and formae were excluded, the resulting number of endemic plants was 252 taxa for the 339 purported taxa analyzed. Seven of the 155 genera analyzed were Korean endemic genera. Among the 339 taxa, the same scientific names were used in the original publications for 256 taxa (76%), while different scientific names were used for 83 taxa (24%). The four largest families were Compositae (42 taxa, 12.4%), Ranunculaceae (19 taxa, 5.6%), Rosaceae (19 taxa, 5.6%), and Scrophulariaceae (19 taxa, 5.6%). *Saussurea* (Compositae) had the highest number of taxa within one genus (17 taxa; 5% of total endemic taxa).

**Key words:** endemic plant, Korean endemic genus, Korean endemic plant, taxonomic composition

## INTRODUCTION

An endemic plant is a taxon that shows a limited distribution as a result of the characteristics of the plant, its seed dispersal, diastrophism and isolation mechanisms (Kim and Chun 1991). Korean endemic plants inhabit only the Korean Peninsula, a geographically unique environment, and have acclimatized to the Korean Peninsula, resulting in genetic differentiation from taxa found outside Korea, because of their long-term isolation (Chung 1986).

The conservation of biological diversity has become a worldwide issue since the endorsement of the Convention on Biological Diversity at the UN Conference on Environmental Development (UNCED) in Rio de Janeiro, Brazil, in 1992. Biodiversity, a compound word meaning biological diversity, represents variation in life forms on the Earth's ecosystem. In general, biodiversity is identified at three levels, genetic diversity, species diversity, and ecosystem diversity (McNeely et al. 1990), and species diversity is used as a practical index of ecosystem and biological resources. The depletion of biological resources

caused by overpopulation and economic development is becoming a concern of the international community. Climate change may also influence biological resources. Furthermore, extinction of endemic plants found only in Korea means permanent extinction of the species from the Earth, as well as a loss to the natural heritage of the Korean people. Therefore, it is important that the endemic plants of the country be documented and studied, to provide information that can be used in conservation programs.

However, disagreement among scholars and institutions is causing confusion in research on the endemic plants of Korea, which prompted us to compile data to evaluate the actual condition of the endemic plants. We compared the scientific names and synonyms of endemic plants used in six major publications on Korean endemic plants with the aim of providing a more consistent interpretation that can be used as a basis for research on endemic plants in Korea.

## MATERIALS AND METHODS

We analyzed six publications that provide lists of endemic plants in Korea: Endemic Plants and Their Distribution in Korea (Lee 1982), Substance of the Korean

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**Table 1.** Summary of the endemic plants of Korea listed in the six reports considered in this study.

Report	Class	Fam.	Gen.	Sp.	Ssp.	Var.	Svar.	For.	Total
Lee (1982)	Pteridophyta	4	5	11	–	–	–	–	11
	Gymnospermae	3	5	3	–	6	–	7	16
	Angiospermae	54	162	325	–	40	–	15	380
	Monocotyledons	8	24	45	–	7	–	–	52
	Dicotyledons	46	138	280	–	33	–	15	328
	Total	61	172	339	–	46	–	22	407
Paik (1994)	Pteridophyta	4	8	9	–	3	–	1	13
	Gymnospermae	3	6	4	–	3	–	–	7
	Angiospermae	65	215	256	1	168	1	124	550
	Monocotyledons	9	32	33	–	20	–	12	65
	Dicotyledons	56	183	223	1	148	1	112	485
	Total	72	229	269	1	174	1	125	570
Kim (2004)	Pteridophyta	6	9	11	–	3	–	1	15
	Gymnospermae	3	6	4	–	3	–	6	13
	Angiospermae	75	249	325	–	126	–	280	731
	Monocotyledons	10	37	49	–	18	–	36	103
	Dicotyledons	65	212	276	–	108	–	244	628
	Total	84	264	340	–	132	–	287	759
KNA <sup>*</sup> (2005)	Pteridophyta	5	7	7	–	2	–	–	9
	Gymnospermae	1	2	2	–	1	–	–	3
	Angiospermae	51	151	254	2	60	–	–	316
	Monocotyledons	10	27	49	1	13	–	–	63
	Dicotyledons	41	124	205	1	47	–	–	253
	Total	57	160	263	2	63	–	–	328
ME <sup>**</sup> (2005)	Pteridophyta	5	9	12	–	3	–	1	16
	Gymnospermae	2	3	2	–	–	–	1	3
	Angiospermae	65	203	260	2	110	–	124	496
	Monocotyledons	8	31	45	–	20	–	12	77
	Dicotyledons	57	172	215	2	90	–	112	419
	Total	72	215	274	2	113	–	126	515
FKEC <sup>†</sup> (2007)	Pteridophyta	3	3	3	–	–	–	–	3
	Gymnospermae	1	2	2	–	–	–	–	2
	Angiospermae	56	140	237	1	38	–	8	284
	Monocotyledons	10	25	48	–	4	–	1	53
	Dicotyledons	46	115	189	1	34	–	7	231
	Total	60	145	242	1	38	–	8	289

\* ; Korea National Arboretum

\*\* ; Ministry of Environment

† ; Flora of Korea Editorial Committee

Endemic Plants and Investigation of Their Distribution (Paik 1994), Korean Endemic Plants (Kim 2004), Endemic Species of Korea (Ministry of Environment 2005), Endemic Vascular Plants in the Korean Peninsula (Korea National Arboretum 2005) and The Genera of Vascular Plants of Korea (Flora of Korea Editorial Committee 2007). In 1952, T. Nakai divided Korean endemic plants into 1,118 taxa including 642 species, 402 varieties and 74 formae, an interpretation that was accepted uncritically for a while. However, more recently, this taxonomy has fallen into disfavor as it appears that the taxa were subdivided too much (Paik and Heo 2002). Therefore, the report of T.

Nakai was excluded from this study. Endemic plants listed in four or more of the six previous reports were analyzed to compare the scientific and synonym names used. We considered named taxa as units in this study, rather than focusing on species and subspecies.

## RESULTS AND DISCUSSION

### Endemic plants of six previous reports

The lists of endemic plants in the six previous reports are summarized in Table 1. Lee (1982) recorded 407 taxa, including 61 families, 172 genera, 339 species, 46

varieties, and 22 formae while Paik (1994) identified 570 taxa including 72 families, 229 genera, 269 species, one subspecies, 174 varieties, one subvariety, and 125 formae. However, Paik (1999) added 23 taxa left out of his previous report of 1994, resulting in a total of 593 taxa including 72 families, 233 genera, 282 species, one subspecies, 177 varieties, one subvariety, and 132 formae. Kim (2004) added more formae to the reports of Lee (1982) and Paik (1999) and reported 759 taxa that represent 84 families, 264 genera, 340 species, 132 varieties, and 287 formae. Meanwhile, the Korea National Arboretum (KNA) (2005) published 328 taxa including 57 families, 160 genera, 263 species, 2 subspecies, and 63 varieties, while removing names and formae that do not appear legitimate as well as plants that are likely or known to inhabit neighboring countries. The Ministry of Environment (ME) (2005) published a paper that identified 515 taxa including 72 families, 215 genera, 274 species, 2 subspecies, 113 varieties, and 126 formae, but also included 55 problematic taxa, including 15 taxa that need to be reassessed taxonomically, 36 taxa that are likely to be found in neighboring countries, one taxon with possible clonal variation, one taxon that needs further investigation, one taxonomically uncertain taxon, and one hybrid taxon. Finally, the Flora of Korea Editorial Committee (FKEC) (2007) published a list of 289 endemic taxa that includes 60 families, 145 genera, 242 species, one subspecies, 38 varieties and 8 forma (Table 1).

The total number of endemic plants in the six reports was 970 taxa: 89 families, 302 genera, 496 species, 3 subspecies, 218 varieties, and 253 formae. Of these, 290 taxa [111 taxa from Lee (1982), 4 taxa from Paik (1994), 150 taxa from Kim (2004), 5 taxa from KNA (2005), 3 taxa from ME (2005), 17 taxa from FKEC (2007)] were recorded only in one of the six documents (Appendix 1). On the other hand, 129 taxa were identified in two documents (Appendix 2), 212 taxa in three documents (Appendix 3), and 339 taxa in four or more of the six documents (Table 2).

The 329 tree taxa found in one or more of the six plant lists consisted of 40 families, 95 genera, 128 species, 102 varieties and 99 forma while the 641 taxa of herbs consisted of 62 families, 212 genera, 368 species, 3 subspecies, 116 varieties and 154 forma. The 577 taxa of herbs were perennial (90% of the 641 taxa), 30 taxa (4.7%) were winter annual or biennial, and 34 taxa (5.3%) were annual.

The 970 taxa consisted of 18 taxa of Pteridophyta with 6 families, 9 genera, 14 species, 3 varieties and one forma; 20 taxa of Gymnospermae with 3 families, 7 genera, 4 species, 13 varieties and 3 forma; 147 taxa of Monocotyledons

(Angiospermae) with 11 families, 51 genera, 90 species, 22 varieties and 35 forma; 785 taxa of Dicotyledons (Angiospermae) with 69 families and 235 genera, 388 species, 3 subspecies, 180 varieties and 214 forma. The largest number of taxa was in the family Compositae, with 27 genera (8.9%), 90 taxa (9.3%). Rosaceae was the second-best represented family with 21 genera (7.0%) and 81 taxa (8.4%) (Table 3).

#### Endemic plants described four times or more in the six previous reports

Endemic plants listed only once or twice in the six previous reports were excluded from consideration, and those listed three times comprised 212 taxa, of which 147 taxa (69.3%) were found only in Paik (1994), Kim (2004) and ME (2005). We decided to compile a list of the endemic plants that were listed in four or more of the six reports. However, it should be also noted that the previous reports provide no clear taxonomic criteria defining endemic plants among the 970 taxa. Endemic plants described in four or more of the six previous reports were analyzed: 339 taxa consisting of 59 families, 155 genera, 252 species, one subspecies, 67 varieties, and 19 formae.

The 69 tree taxa found on four or more lists consisted of 18 families, 38 genera, 48 species, 12 varieties and 9 forma, while the 270 taxa of herbs included 45 families, 119 genera, 204 species, one subspecies, 55 varieties and 10 forma. The 270 taxa of herbs were comprised of 245 perennial taxa (90.7% of herb taxa), 12 winter annual or biennial taxa (4.5%), and 13 annual taxa (4.8%).

The 339 taxa included on four or more of the plant lists consisted of 11 taxa of Pteridophyta (5 families, 7 genera, 9 species and 2 varieties); 4 taxa of Gymnospermae (2 families, 4 genera, 3 species, and one forma); 54 taxa of Monocotyledons (Angiospermae) (8 families, 21 genera, 36 species, 15 varieties, and 3 forma); and 270 taxa of Dicotyledons (Angiospermae) (44 families and 123 genera, 204 species, one subspecies, 49 varieties and 16 forma). Among the 339 taxa, the same scientific names were used for 256 taxa (76%) in the previous reports while different scientific names were used for 83 taxa (24%) in the six previous reports.

Seven of the 155 genera analyzed in this paper were Korean endemic genera; *Mankyua*, *Megaleranthis*, *Coreanomecon*, *Pentactina*, *Echinosophora*, *Abeliophyllum*, and *Hanabusaya* (Kim 2004). One endemic taxon was included in each of the genera *Mankyua*, *Megaleranthis*, *Coreanomecon*, *Pentactina* and *Echinosophora* while 2 taxa were included in each of the genera *Abeliophyllum* and *Hanabusaya* (Table 2).

The four families with the largest numbers of

**Table 2.** List of 339 endemic plant taxa listed in at least four of the six reports. The endemic plants list is arranged in the order followed by the Illustrated Flora of Korea (Lee 1999). This list includes 225 taxa from Lee (1982), 316 taxa from Paik (1994), 331 taxa from Kim (2004), 274 taxa from KNA (2005), 321 taxa from ME (2005) and 220 taxa from FKEC (2007).

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
Lycopodiaceae							
1	<i>Lycopodium integrifolium</i> Matsuda & Nakai : L, P, K, M <sup>†</sup> <i>Huperzia integrifolia</i> (Matsuda) Z. Satou : F <sup>†</sup>	*	*	*		*	*
Ophioglossaceae							
2	<sup>†</sup> <i>Mankyua chejuense</i> B.Y. Sun, M.H. Kim & C.H. Kim			*	*	*	*
Pteridaceae							
3	<i>Adiantum coreanum</i> Tagawa	*	*	*	*	*	
Aspidiaceae							
4	<i>Woodsia pseudo-ilvensis</i> Tagawa	*	*	*	*	*	
5	<i>Woodsia saitosana</i> Tagawa	*	*	*	*	*	
6	<i>Dryopteris austriaca</i> var. <i>subopposita</i> H. Ito		*	*	*	*	
7	<i>Athyrium acutipinnulum</i> Kodama ex Nakai	*		*	*	*	
8	<i>Athyrium excelsius</i> Nakai	*	*	*		*	
9	<i>Athyrium koryoense</i> Tagawa	*	*	*		*	
10	<i>Athyrium nakaii</i> Tagawa	*	*	*	*	*	
Aspleniaceae							
11	<i>Asplenium anogrammoides</i> (Christ) Fedde : L <sup>†</sup> <i>A. sarelii</i> var. <i>anogrammoides</i> (Christ) Tagawa : P, K, N, M <sup>†</sup>	*	*	*	*	*	
Taxaceae							
12	<i>Taxus caespitosa</i> Nakai	*	*	*		*	
Pinaceae							
13	<i>Abies koreana</i> Wilson	*	*	*	*	*	*
14	<i>Picea pungsanensis</i> Uyeki	*	*	*	*	*	*
15	<i>Larix gmelinii</i> var. <i>principis-ruprechtii</i> for. <i>vividis</i> T. Lee : L <sup>†</sup> <i>L. olgensis</i> Henry var. <i>koreana</i> Nakai for. <i>viridi</i> (Wilson) Nakai : P, K, M <sup>†</sup>	*	*	*		*	
Gramineae							
16	<i>Sasa coreana</i> Nakai	*	*	*	*	*	*
17	<i>Sasa quelpaertensis</i> Nakai	*		*	*		*
18	<i>Calamagrostis subacrochaeta</i> Nakai	*	*	*	*	*	*
19	<i>Calamagrostis hymenoglossa</i> Ohwi : L, P, K, M <sup>†</sup> <i>C. arundinacea</i> subsp. <i>hymenoglossa</i> (Ohwi) T. Koyama : N <sup>†</sup>	*	*	*	*	*	
20	<i>Elymus coreanus</i> Honda : P, K, M <sup>†</sup> <i>Asperella coreanus</i> (Honda) Neski : N <sup>†</sup>		*	*	*	*	
21	<i>Ischaemum antheophoroides</i> (Steud.) Miquel for. <i>coreanum</i> (Nakai) Y.N. Lee		*	*		*	*
22	<i>Festuca ovina</i> L. var. <i>koreana-alpina</i> Ohwi		*	*	*	*	
23	<i>Festuca ovina</i> L. var. <i>chosenica</i> Ohwi		*	*	*	*	
24	<i>Puccinellia coreensis</i> (Hack.) Honda		*	*	*	*	*
25	<i>Poa takeshimana</i> Honda	*	*	*	*	*	*
26	<i>Poa kumkangsani</i> Ohwi	*	*	*	*	*	*
27	<i>Poa deschampsoides</i> Ohwi	*	*	*	*	*	*
28	<i>Poa kamboensis</i> Ohwi	*	*	*	*	*	*
29	<i>Poa ullungdoensis</i> Chung		*	*	*	*	*
30	<i>Miscanthus changii</i> Y. Lee		*	*	*	*	*
Cyperaceae							
31	<i>Carex humbertiana</i> Ohwi	*	*	*	*	*	*
32	<i>Carex blepharicarpa</i> Fr. var. <i>insularis</i> Nakai	*	*	*		*	
33	<i>Carex aphanolepis</i> Fr. et Sav. var. <i>mixta</i> Nakai		*	*	*	*	
34	<i>Carex subumbellata</i> Meninsh. var. <i>koreana</i> Ohwi	*	*	*	*	*	
35	<i>Carex sabyensis</i> Lessing ex Kunth var. <i>leiosperma</i> Ohwi		*	*	*	*	
36	<i>Carex erythrobasis</i> H. Lev. & Vaniot.		*	*	*	*	*
37	<i>Carex fusanensis</i> Ohwi : L, K <sup>†</sup> <i>C. gifuensis</i> Franch. var. <i>koreana</i> Nakai : P, M <sup>†</sup>	*	*	*		*	
38	<i>Carex okamotoi</i> Ohwi	*	*	*	*	*	*
39	<i>Carex tenuiformis</i> Lev. et Van var. <i>neo-filipes</i> (Nakai) Ohwi ex Hatus.		*	*	*	*	
40	<i>Carex phaeothrix</i> Ohwi	*	*	*	*	*	
41	<i>Carex ochrochlamys</i> Ohwi	*			*	*	*

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
42	<i>Carex pseudochinensis</i> H. Lev. & Vaniot.	*	*	*	*	*	*
43	<i>Carex ligulata</i> Nees var. <i>austrokoreensis</i> Ohwi : L, P, K <sup>†</sup> <i>C. austrokoreensis</i> Ohwi : M <sup>†</sup>	*	*	*		*	
44	<i>Scleria mutoensis</i> Nakai	*	*	*	*	*	*
Araceae							
45	<i>Arisaema takesimense</i> Nakai	*	*	*	*	*	*
46	<i>Arisaema convolutum</i> Nakai : L <sup>†</sup> <i>A. peinsulae</i> Nakai for. <i>convolutum</i> (Nakai) Y. Kim et S. Ko : P, K, M <sup>†</sup>	*	*	*		*	
Eriocaulaceae							
47	<i>Eriocaulon glaberimum</i> Miyabe var. <i>platypetalum</i> (Satake) Satake		*	*	*	*	*
48	<i>Eriocaulon sphagnicolum</i> Ohwi	*	*	*	*	*	*
Liliaceae							
49	<i>Allium cyaneum</i> Regal var. <i>deltoides</i> S. Yu & W. Lee et S. Lee		*	*	*	*	*
50	<i>Allium deltoide-fistulosum</i> S. Yu & W. Lee et S. Lee		*	*	*	*	
51	<i>Allium senescens</i> L. var. <i>minor</i> S. Yu & W. Lee et S. Lee		*	*		*	*
52	<i>Polygonatum quelpaertense</i> Ohwi ex. Nakai : L, N <sup>†</sup> <i>P. odoratum</i> (Mill.) Druce var. <i>quelpaertense</i> (Ohwi) Hara : P, M <sup>†</sup>	*	*		*	*	
53	<i>Polygonatum grandicaule</i> Y.S. Kim, B.U. Oh & C.G. Jang			*	*	*	*
54	<i>Polygonatum infundiflorum</i> Y.S. Kim, B.U. Oh & C.G. Jang			*	*	*	*
55	<i>Smilacina bicolor</i> Nakai	*	*	*	*	*	*
56	<i>Veratrum bohnhofii</i> Loesener fil. var. <i>latifolium</i> Nakai	*	*	*		*	
Amaryllidaceae							
57	<i>Lycoris koreana</i> Nakai : L, P, ME <sup>†</sup> <i>L. sanguinea</i> var. <i>koreana</i> (Nakai) T. Koyama : K <sup>†</sup>	*	*	*		*	
58	<i>Lycoris chejuensis</i> K.H. Tae & S.C. Ko			*	*	*	*
59	<i>Lycoris chinensis</i> Traub. var. <i>sinuolata</i> K.H. Tae & S.C. Ko			*	*	*	*
60	<i>Lycoris flsvescens</i> M.Y. Kim & S.T. Lee			*	*	*	*
61	<i>Lycoris flsvescens</i> var. <i>uydoensis</i> M.Y. Kim : K, M <sup>†</sup> <i>Lycoris uydoensis</i> M.Y. Kim : N, F <sup>†</sup>			*	*	*	*
Iridaceae							
62	<i>Iris odaesanensis</i> Y. Lee	*	*	*		*	*
63	<i>Iris koreana</i> Nakai			*	*	*	*
64	<i>Iris rossii</i> Baker var. <i>latifolia</i> : P, N, F <sup>†</sup> <i>Iris rossii</i> Baker for. <i>latifolia</i> : K <sup>†</sup>		*	*	*		*
65	<i>Iris sanguinea</i> Hornemann var. <i>violacea</i> Makino : P, K, M <sup>†</sup> <i>I. sanguinea</i> Hornemann for. <i>violacea</i> Makino : K <sup>†</sup>		*	*	*	*	
Orchidaceae							
66	<i>Habenaria cruciformis</i> Ohwi		*	*	*	*	
67	<i>Liparis koreana</i> (Nakai) Nakai	*	*	*	*	*	*
68	<i>Calanthe coreana</i> Nakai	*	*	*	*	*	
69	<i>Diplolabellum coreanum</i> Maekawa ex Nakai : L, P, N, M <sup>†</sup> <i>Oreorchis coreana</i> Finet : K, F <sup>†</sup>	*	*	*	*	*	*
Chloranthaceae							
70	<i>Chloranthus japonicus</i> var. <i>koreanus</i> (Nakai) T. Lee : L <sup>†</sup> <i>C. fortunei</i> (A. Gray) Sikms-Laub var. <i>koreanus</i> (Nakai) Hiyama : P, K, M <sup>†</sup>	*	*	*		*	
Salicaceae							
71	<i>Salix dependens</i> Nakai	*	*	*	*	*	*
72	<i>Salix xerophila</i> Floderus var. <i>fuscescens</i> (Nakai) W. Lee : P, K, N, M <sup>†</sup> <i>Salix xerophila</i> Floderus for. <i>fuscescens</i> Nakai : F <sup>†</sup>		*	*	*	*	*
73	<i>Salix sericeo-cinerea</i> Nakai	*	*	*	*	*	
74	<i>Salix hallaisan</i> Leville	*	*	*			*
75	<i>Salix hallaisanensis</i> for. <i>longifolia</i> Nakai : P, K, M <sup>†</sup> <i>Salix hallaisanensis</i> var. <i>longifolia</i> Nakai : F <sup>†</sup>		*	*		*	*
76	<i>Salix ishidoyana</i> Nakai	*	*	*	*	*	*
77	<i>Salix kangensis</i> Nakai	*	*	*		*	*
78	<i>Salix blinii</i> H. Lev.	*	*	*	*	*	*
79	<i>Salix koriyanagi</i> Kimura		*	*	*	*	
80	<i>Salix bicarpa</i> Nakai	*	*	*	*	*	*

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
Betulaceae							
81	<i>Betula ermani</i> var. <i>saitoana</i> Hatus. : L, K, N <sup>†</sup>	*	*	*	*		
	<i>B. ermanii</i> subvar. <i>saitoana</i> (Nakai) Schneid. : P <sup>†</sup>						
82	<i>Carpinus latiflora</i> (S et Z.) Blume var. <i>longispica</i> Uyeki		*	*	*	*	*
83	<i>Carpinus latiflora</i> (S et Z.) Blume for. <i>macrophylla</i> (Nakai) W. Lee : P, K, M <sup>†</sup>		*	*	*	*	
	<i>Carpinus latiflora</i> var. <i>macrophylla</i> Nakai : N <sup>†</sup>						
Fagaceae							
84	<i>Quercus dentata</i> Thunb for. <i>fallax</i> (Nakai) W. Lee : P, K, M <sup>†</sup>		*	*	*	*	
	<i>Quercus dentata</i> var. <i>fallax</i> Nakai : N <sup>†</sup>						
Ulmaceae							
85	<i>Ulmus macrocarpa</i> Hance var. <i>macrophylla</i> (Nakai) T. Lee : L, P <sup>†</sup>	*	*	*		*	
	<i>U. macrocarpa</i> Hance for. <i>macrophylla</i> (Nakai) M. Kim : K, M <sup>†</sup>						
86	<i>Celtis edulis</i> Nakai	*	*	*			*
87	<i>Celtis choseniana</i> Nakai	*	*	*			*
Urticaceae							
88	<i>Urtica laetevirens</i> Maxim. var. <i>robusta</i> F. Maekawa		*	*	*	*	
89	<i>Pilea taquetii</i> Nakai	*	*	*	*	*	*
90	<i>Pilea oligantha</i> Nakai	*	*	*	*	*	
91	<i>Boehmeria taquetii</i> Nakai : L, K, N, M <sup>†</sup>	*	*	*	*	*	
	<i>Duretia taquetii</i> (Nakai) Nakai : P <sup>†</sup>						
92	<i>Boehmeria hirtella</i> Satake	*	*	*	*	*	
93	<i>Boehmeria nakaiana</i> Satake	*	*	*	*	*	
94	<i>Boehmeria quepartensis</i> Satake	*	*	*	*	*	
Aristolochiaceae							
95	<i>Asarum maculatum</i> Nakai	*	*	*	*	*	*
96	<i>Asarum glabrata</i> (C.S. Yook & J.G. Kim & J. Nam) B.U. Oh : N, M <sup>†</sup>			*	*	*	*
	<i>Asarum misandrum</i> B. Oh & J. Kim : K, F <sup>†</sup>						
Polygonaceae							
97	<i>Rheum coreanum</i> Nakai	*	*	*	*	*	
98	<i>Bistorta globispica</i> Nakai	*	*	*	*	*	*
99	<i>Aconogonum microcarpum</i> (Kitag.) Hara		*	*	*	*	*
100	<i>Aconogonum mollifolium</i> (Kitag.) Hara	*	*	*	*	*	*
101	<i>Aconogonum brachytricum</i> (Ohwi) T. Lee		*	*	*	*	
102	<i>Fallopia koreana</i> B.U.Oh & J.G.Kim			*	*	*	*
Chenopodiaceae							
103	<i>Axyris koreana</i> Nakai		*	*	*	*	
Phytolaccaceae							
104	<i>Phytolacca insularis</i> Nakai	*	*	*	*	*	*
Caryophyllaceae							
105	<i>Pseudostellaria coreana</i> (Nakai) Ohwi	*	*	*	*	*	
106	<i>Pseudostellaria monantha</i> Ohwi		*	*	*	*	
107	<i>Pseudostellaria bulbosa</i> (Nakai) Nakai		*	*	*	*	
108	<i>Pseudostellaria okamotoi</i> Ohwi	*	*	*	*	*	*
109	<i>Pseudostellaria setulosa</i> Ohwi		*	*	*	*	*
110	<i>Melandryum umbellatum</i> Nakai : L, P, K, M <sup>†</sup>	*	*	*	*	*	*
	<i>Silene myongcheonensis</i> S.P. Hong & H.K. Moon : N, F <sup>†</sup>						
111	<i>Silene fasciculata</i> Nakai	*	*	*	*	*	*
112	<i>Silene takesimensis</i> Uyeki & Sakata		*	*	*	*	*
Nymphaeaceae							
113	<i>Nymphaea minima</i> Nakai : L, K <sup>†</sup>	*	*	*	*	*	
	<i>N. tetragona</i> Georgi var. <i>minima</i> (Nakai) W. Lee : P, N, M <sup>†</sup>						
Ranunculaceae							
114	<i>Clematis fusca</i> Turczaninow var. <i>coreana</i> Nakai ex Mori		*	*	*	*	*
115	<i>Clematis nobilis</i> Nakai : L <sup>†</sup>	*	*	*		*	
	<i>C. nobilis</i> for. <i>plena</i> Uyeki et Sakata : P, K, M <sup>†</sup>						
116	<i>Clematis trichotoma</i> Nakai	*	*	*	*	*	*
117	<i>Pulsatilla nivalis</i> Nakai	*	*	*	*	*	*
118	<i>Hepatica insularis</i> Nakai	*	*	*	*	*	*

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
119	<i>Hepatica maxima</i> Nakai	*	*	*	*	*	*
120	<i>Anemone koraiensis</i> Nakai	*	*	*	*	*	*
121	<i>Ranunculus crucilobus</i> Leveille : P, N, M, F <sup>†</sup> <i>R. japonicus</i> var. <i>crucilobus</i> (Leveille) M. Kim : K <sup>†</sup>		*	*	*	*	*
122	<i>Callianthemum insigne</i> (Nakai) Nakai		*	*	*	*	*
123	<i>Thalictrum rochebrunianum</i> var. <i>grandisepalum</i> (H. Lev.) Nakai	*	*	*	*	*	*
124	<i>Thalictrum actaeifolium</i> Sieb. et Zucc var. <i>brevistylum</i> Nakai		*	*	*	*	*
125	<i>Thalictrum uchiyamai</i> Nakai		*	*	*	*	*
126	<i>Thalictrum coreanum</i> H. Lev.	*	*	*	*	*	*
127	<i>Thalictrum osmorhizoides</i> Nakai	*	*	*	*	*	*
128	<i>Aconitum pseudolaeve</i> Nakai		*	*	*	*	*
129	<i>Aconitum pteropus</i> Nakai	*	*	*	*	*	*
130	<i>Aconitum quelpaertense</i> Nakai		*	*	*	*	*
131	<i>Aconitum austro-koreense</i> Koidz.	*	*	*	*	*	*
132	<sup>‡</sup> <i>Megaleranthis saniculifolia</i> Ohwi		*	*	*	*	*
Berberidaceae							
133	<i>Berberis koreana</i> Palib.	*	*	*	*	*	*
134	<i>Berberis koreana</i> Palibin for. <i>angustifolia</i> (Nakai) W. Lee : P, K, M <sup>†</sup> <i>B. koreana</i> var. <i>angustifolia</i> Nakai : N <sup>†</sup>		*	*	*	*	
135	<i>Berberis amurensis</i> var. <i>quelpaertensis</i> (Nakai) Nakai	*	*	*	*		*
Papaveraceae							
136	<i>Hylomecon hylomeconoides</i> T. Lee : L <sup>†</sup> <sup>‡</sup> <i>Coreanomecon hylomeconoides</i> Nakai : P, K, N, M, F <sup>†</sup>	*	*	*	*	*	*
Fumariaceae							
137	<i>Corydalis filistipes</i> Nakai	*	*	*	*	*	*
138	<i>Corydalis albipetala</i> B.U. Oh			*	*	*	*
139	<i>Corydalis grandicalyx</i> B.U. Oh & Y.S. Kim		*	*	*	*	*
140	<i>Corydalis humilis</i> B.U. Oh & Y.S. Kim			*	*	*	*
141	<i>Corydalis maculata</i> B.U. Oh & Y.S. Kim		*	*	*	*	*
Cruciferae							
142	<i>Cardamine leucantha</i> (Tausch) O.E. var. <i>toensis</i> (Nakai) T. Lee	*	*	*		*	
143	<i>Cardamine glechomifolia</i> Levl.		*	*	*	*	*
144	<i>Cardamine koreana</i> (Nakai) Nakai	*	*	*	*	*	*
145	<i>Arabis takesimana</i> Nakai	*	*	*	*	*	*
146	<i>Arabis serrata</i> var. <i>hallaisanensis</i> (Nakai) Ohwi	*	*	*		*	
147	<i>Arabis columnalis</i> Nakai	*	*	*	*	*	*
148	<i>Arabis ligulifolia</i> Nakai	*	*	*	*	*	*
Crassulaceae							
149	<i>Orostachys fififera</i> Nakai	*	*	*		*	
150	<i>Orostachys saxatilis</i> Nakai	*	*	*	*	*	
151	<i>Sedum kamtschaticum</i> Fischer var. <i>takesimense</i> (Nakai) M. Park : P <sup>†</sup> <i>Sedum takesimense</i> Nakai : K, M, F <sup>†</sup>		*	*		*	*
152	<i>Sedum viridescens</i> Nakai : L, P, K <sup>†</sup> <i>Hylotelephium viridescens</i> (Nakai) H. Ohba : N, M, F <sup>†</sup>	*	*	*	*	*	*
153	<i>Sedum zokuriense</i> Nakai : L, K, N, F <sup>†</sup> <i>S. kamtschaticum</i> Fischer var. <i>zokuriense</i> (Nakai) M. Park : P, M <sup>†</sup>	*	*	*	*	*	*
154	<i>Sedum latiovalifolium</i> Y.N. Lee			*	*	*	*
Saxifragaceae							
155	<i>Astilbe rubra</i> Hook. f. et Thomas. ex. f. var. <i>taquetii</i> (Lev.) Hara		*	*	*	*	*
156	<i>Astilbe divaricata</i> Nakai : L, K <sup>†</sup> <i>A. rubra</i> var. <i>divaricatum</i> (Nakai) W. Lee : P, N, M <sup>†</sup>	*	*	*	*	*	
157	<i>Saxifraga furumii</i> Nakai	*	*	*	*	*	*
158	<i>Saxifraga fortunei</i> Hooker fil. var. <i>pilosissima</i> Nakai : P, N, M <sup>†</sup> <i>Saxifraga fortunei</i> Hooker fil. for. <i>pilosissima</i> (Nakai) M. Kim : K <sup>†</sup>		*	*	*	*	
159	<i>Saxifraga octopetala</i> Nakai	*	*	*	*	*	*
160	<i>Chrysosplenium barbatum</i> Nakai	*	*	*	*	*	
161	<i>Chrysosplenium flaviflorum</i> Ohwi	*	*	*	*	*	*
162	<i>Chrysosplenium hallaisanense</i> Nakai	*	*	*	*	*	

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
163	<i>Kirengeshoma koreana</i> Nakai : L, P, N, F <sup>†</sup> <i>K. palmata</i> var. <i>koreana</i> (Nakai) M. Kim : K <sup>†</sup>	*	*	*	*	*	*
164	<i>Deutzia paniculata</i> Nakai	*	*	*	*	*	*
165	<i>Philadelphus koreanus</i> Nakai		*	*	*		*
166	<i>Philadelphus scaber</i> Nakai		*	*	*		*
Rosaceae							
167	<sup>‡</sup> <i>Pentactina rupicola</i> Nakai	*	*	*	*	*	*
168	<i>Spiraea chartacea</i> Nakai	*	*	*	*	*	*
169	<i>Physocarpus insularis</i> (Nakai) Nakai		*		*	*	*
170	<i>Aruncus aethusifolius</i> (H.Lev.) Nakai : L, P, N, F <sup>†</sup> <i>A. dioicus</i> (Walter) Fernald var. <i>aethusifolius</i> (Levl.) Hara : K, M <sup>†</sup>	*	*	*	*	*	*
171	<i>Potentilla dickinsii</i> Fr. et Sav. var. <i>brevisetata</i> Nakai		*	*	*	*	
172	<i>Potentilla dickinsii</i> Fr. et Sav. var. <i>glabrata</i> Nakai		*	*	*	*	*
173	<i>Rubus longisepalus</i> Nakai : L, P, K <sup>†</sup> <i>Rubus tozawai</i> Nakai ex Chung var. <i>longisepalus</i> : F <sup>†</sup>	*	*	*		*	*
174	<i>Rubus longisepalus</i> var. <i>tozawai</i> (Nakai) T.B. Lee : L, P, N <sup>†</sup> <i>R. longisepalus</i> Nakai for. <i>tozawai</i> (Nakai) M. Kim : K <sup>†</sup> <i>R. tozawai</i> Naka ex Chung var. <i>tozawai</i> : F <sup>†</sup>	*	*	*	*		*
175	<i>Rubus takesimensis</i> Nakai	*	*	*	*	*	*
176	<i>Rubus schizostylus</i> H.Lev.	*	*	*	*	*	*
177	<i>Rubus hongnoensis</i> Nakai		*	*		*	*
178	<i>Filipendula formosa</i> Nakai	*	*	*	*	*	*
179	<i>Filipendula glaberrima</i> Nakai : L, K <sup>†</sup> <i>F. palmat</i> (Pallas) Maxim. var. <i>glabra</i> Ledeb. ex. Kom. et Alis. : P, M <sup>†</sup>	*	*	*		*	
180	<i>Rosa maximowicziana</i> Regel var. <i>pilosa</i> (Nakai) Nakai		*	*	*	*	
181	<i>Rosa kokusanensis</i> Nakai : L, P, K, M <sup>†</sup> <i>R. maximowicziana</i> var. <i>kokusanensis</i> (Nakai) M. Kim : K <sup>†</sup>	*	*	*	*	*	
182	<i>Prunus takesimensis</i> Nakai	*	*	*	*	*	*
183	<i>Prunus ishidoyana</i> Nakai	*	*	*	*	*	
184	<i>Pourthiaea villosa</i> (Thunb.) Decne var. <i>brunnea</i> (Levl.) Nakai		*	*	*		*
185	<i>Sorbus commixta</i> Hedlund for. <i>pilosa</i> (Nakai) Nakai : P, K, M <sup>†</sup> <i>S. commixta</i> var. <i>pilosa</i> Nakai : N <sup>†</sup>		*	*	*	*	
Leguminosae							
186	<sup>‡</sup> <i>Echinosophora koreensis</i> Nakai : L, P, K, M <sup>†</sup> <i>Sophora koreensis</i> Nakai : N, F <sup>†</sup>	*	*	*	*	*	*
187	<i>Lespedeza maximowiczii</i> Schneider var. <i>tricolor</i> Nakai	*	*	*		*	
188	<i>Lespedeza maritima</i> Nakai		*	*	*	*	*
189	<i>Vicia venosissima</i> Nakai	*	*	*		*	
190	<i>Vicia angusti-pinnata</i> Nakai : L, P, M <sup>†</sup> <i>V. hirticalycina</i> Nakai for. <i>angustipinnata</i> (Nakai) M. Kim : K <sup>†</sup>	*	*	*		*	
191	<i>Vicia hirticalycina</i> Nakai : L, K, N, F <sup>†</sup> <i>V. anguste-pinnata</i> Nakai var. <i>hirticalycina</i> (Nakai) W. Lee : P, M <sup>†</sup>	*	*	*	*	*	*
192	<i>Indigofera grandiflora</i> B.H.Choi & S.K.Cho			*	*	*	*
193	<i>Caragana koreana</i> Nakai	*	*	*		*	
194	<i>Astragalus adsurgens</i> Pallas var. <i>alpinus</i> Nakai : L, P, M <sup>†</sup> <i>A. membranaceus</i> Bunge var. <i>alpinus</i> Nakai : K <sup>†</sup>	*	*	*		*	
195	<i>Astragalus koraiensis</i> Y. Lee : P, N, M <sup>†</sup> <i>A. sikokianus</i> var. <i>koraiensis</i> (Y. Lee) M. Kim : K <sup>†</sup>		*	*	*	*	
196	<i>Oxytropis strobilacea</i> Bunge		*	*	*	*	
Geraniaceae							
197	<i>Geranium koraiense</i> Nakai	*	*	*		*	
198	<i>Geranium koreanum</i> Komarov for. <i>hirsutum</i> (Nakai) M. Park : P, K <sup>†</sup> <i>Geranium koreanum</i> Komarov var. <i>hirsutum</i> Nakai : M, F <sup>†</sup>		*	*	*	*	*
199	<i>Geranium lasicaulon</i> Nakai		*	*	*	*	
200	<i>Geranium knuthii</i> Nakai	*	*	*	*	*	*
Euphorbiaceae							
201	<i>Euphorbia pekinensis</i> Rupr. var. <i>fauriei</i> (Lev. & Van.) Hurusawa. : L, P, K, M <sup>†</sup> <i>E. fauriei</i> Lev. et Vnt. : N, F <sup>†</sup>	*	*	*	*	*	*



Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
202	<i>Euphorbia octoradiata</i> Lev. et Vnt.	*	*	*	*	*	
203	<i>Euphorbia pekinensis</i> var. <i>subulatifolius</i> (Hurus.) T. Lee : L, P, M <sup>†</sup> <i>E. pekinensis</i> Rupr. for. <i>subulatifolius</i> (Hurus.) M. Kim : K <sup>†</sup> <i>E. subulatifolius</i> Hurus. : N <sup>†</sup>	*	*	*	*	*	
Buxaceae							
204	<i>Buxus microphylla</i> var. <i>koreana</i> for. <i>elongata</i> (Nakai) T. Lee	*	*	*		*	
Balsaminaceae							
205	<i>Impatiens textori</i> Miq. for. <i>atrosanguinea</i> (Nakai) T.B. Lee : P, M <sup>†</sup> <i>I. textori</i> Miq. var. <i>atrosanguinea</i> Nakai : K <sup>†</sup> <i>I. atrosanguinea</i> (Nakai) B.U. OH & Y.P. Hong : N <sup>†</sup>		*	*	*	*	
206	<i>Impatiens hypophylla</i> Makino var. <i>koreana</i> Nakai : P, M <sup>†</sup> <i>I. koreana</i> Y.N. Lee : K <sup>†</sup> <i>I. koreana</i> (Nakai) B.U. Oh : N <sup>†</sup>		*	*	*	*	
Rhamnaceae							
207	<i>Rhamnus taquetii</i> (H. Lev.) H. Lev.	*	*	*	*	*	*
Tiliaceae							
208	<i>Tilia insularis</i> Nakai	*	*	*	*	*	*
209	<i>Tilia semicostata</i> Nakai	*	*	*	*		*
Sterculiaceae							
210	<i>Corchoropsis intermedia</i> Nakai	*	*	*	*		*
Violaceae							
211	<i>Viola seoulensis</i> Nakai	*	*	*	*	*	*
212	<i>Viola kapsanensis</i> Nakai	*	*	*	*	*	*
213	<i>Viola diamantiaca</i> Nakai	*	*	*		*	
214	<i>Viola takeshimana</i> Nakai	*	*	*	*	*	*
Araliaceae							
215	<i>Acanthopanax chiisanensis</i> Nakai : L, P <sup>†</sup> <i>A. divaricatus</i> var. <i>chiisanensis</i> (Nakai) C. Kim & B. Sun : K, N, M, F <sup>†</sup>	*	*	*	*	*	*
Umbelliferae							
216	<i>Bupleurum latissimum</i> Nakai	*	*	*	*	*	*
217	<i>Pimpinella brachycarpa</i> (Kom.) Nakai var. <i>hallaisanensis</i> W. Lee & G. Jang : P <sup>†</sup> <i>P. hallaisanensis</i> (W. Lee & G. Jang) W. Lee, G. Jang & W. Paik : K, N, M, F <sup>†</sup>		*	*	*	*	*
218	<i>Pimpinella brachycarpa</i> (Kom.) Nakai var. <i>uchiyamana</i> (Nakai) W. Lee & G. Jang		*	*	*	*	*
219	<i>Tilingia nakaiana</i> Kitag.		*	*	*	*	*
220	<i>Dystaenia takeshimana</i> (Nakai) Kitag.	*	*	*	*	*	*
221	<i>Angelica cartilaginomarginata</i> (Makino) Nakai var. <i>distans</i> (Nakai) Kitagawa		*	*	*	*	
222	<i>Angelica fallax</i> H. De Boissieu : L <sup>†</sup> <i>A. polymorpha</i> Maxim. var. <i>fallax</i> (Boissieu) Kitagawa : P, K, M <sup>†</sup>	*	*	*		*	
223	<i>Peucedanum coreanum</i> Nakai	*			*	*	*
224	<i>Peucedanum insolens</i> Kitag.		*	*	*	*	
Ericaceae							
225	<i>Rhododendron saisuiense</i> Nakai	*	*	*	*		
Primulaceae							
226	<i>Lysimachia coreana</i> Nakai	*	*	*	*	*	*
227	<i>Androsace cortusaefolia</i> Nakai	*	*	*	*	*	*
Oleaceae							
228	<i>Fraxinus chiisanensis</i> Nakai		*	*	*	*	*
229	<i>Ligustrum foliosum</i> Nakai	*	*	*	*	*	*
230	<i>Ligustrum foliosum</i> for. <i>ovale</i> Nakai	*	*	*		*	
231	<sup>‡</sup> <i>Abeliophyllum distichum</i> Nakai	*	*	*	*	*	*
232	<sup>‡</sup> <i>Abeliophyllum distichum</i> for. <i>lilacinum</i> Nakai	*	*	*		*	
233	<i>Forsythia koreana</i> (Rehder) Nakai	*	*	*	*	*	*
234	<i>Forsythia ovata</i> Nakai	*	*	*	*	*	*
235	<i>Forsythia nakaii</i> (Uyeki) T.B. Lee : L, K, M <sup>†</sup> <i>F. velutina</i> Nakai : P, N, F <sup>†</sup>	*	*	*	*	*	*
236	<i>Forsythia saxatilis</i> (Nakai) Nakai	*	*	*	*	*	*
237	<i>Syringa velutina</i> Komarov var. <i>venosa</i> (Nakai) T. Lee : L, P <sup>†</sup> <i>S. patula</i> var. <i>venosa</i> (Nakai) M. Kim : K, N, F <sup>†</sup>	*	*	*	*	*	*

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
238	<i>Syringa faurieri</i> H. Lev.		*	*	*	*	
239	<i>Syringa velutina</i> var. <i>venosa</i> for. <i>lactea</i> (Nakai) T.B. Lee : L <sup>†</sup>	*	*	*		*	
	<i>S. velutina</i> var. <i>kamibayashii</i> (Nakai) T. Lee for. <i>lactea</i> (Nakai) T. Lee : P, K, M <sup>†</sup>						
Gentianaceae							
240	<i>Gentiana chosonica</i> Okuyama		*	*	*	*	*
241	<i>Gentiana takahasii</i> Mori			*	*	*	*
242	<i>Gentiana wootchuliana</i> W.K. Paik		*	*	*	*	*
243	<i>Gentiana jamesii</i> Hemsley for. <i>albiflora</i> (Nakai) Toyokumi		*	*		*	*
244	<i>Gentiana triflora</i> Pallas for. <i>alboviolacea</i> W. Paik et W. Lee ex W. Paik		*	*		*	*
Labiatae							
245	<i>Ajuga pectabilis</i> Nakai	*	*	*	*	*	*
246	<i>Scutellaria insignis</i> Nakai	*	*	*	*	*	*
247	<i>Scutellaria asperiflora</i> Nakai	*	*	*	*	*	*
248	<i>Lamium takesimense</i> Nakai : L, K, N, F <sup>†</sup>	*	*	*	*	*	*
	<i>L. album</i> L. var. <i>takesimense</i> (Nakai) Kudo : P, M <sup>†</sup>						
249	<i>Salvia chanroenica</i> Nakai	*	*	*	*	*	*
250	<i>Elsholtzia minima</i> Nakai : L, K, F <sup>†</sup>	*	*	*		*	*
	<i>E. pseudo-cristata</i> Lev. & Van. for. <i>minima</i> (Nakai) Kitagawa : P, M <sup>†</sup>						
Scrophulariaceae							
251	<i>Paulownia coreana</i> Uyeki	*	*	*	*	*	*
252	<i>Scrophularia takesimensis</i> Nakai	*	*	*	*	*	*
253	<i>Scrophularia buergeriana</i> Miquel var. <i>quelpartensis</i> Yamazaki		*	*	*	*	
254	<i>Scrophularia kakudensis</i> Fr. var. <i>microphylla</i> Nakai		*	*	*	*	
255	<i>Scrophularia cephalantha</i> Nakai		*	*	*	*	
256	<i>Pseudolysimachion pyrethrina</i> (Nakai) Yamazaki : L, K, N, F <sup>†</sup>	*	*	*	*	*	*
	<i>Veronica pyrethrina</i> Nakai : P, M <sup>†</sup>						
257	<i>Pseudolysimachion insulare</i> (Nakai) Yamazaki : L, K, N, F <sup>†</sup>	*	*	*	*	*	*
	<i>Veronica insularis</i> Nakai : P, M <sup>†</sup>						
258	<i>Pseudolysimachion kiusianum</i> var. <i>diamantiacum</i> (Nakai) Yamazaki : L, N <sup>†</sup>	*	*	*	*	*	*
	<i>Veronica kiusianum</i> Furumi var. <i>diamantiaca</i> (Nakai) Yamazaki : P, M, F <sup>†</sup>						
	<i>P. ovatum</i> ssp. <i>kiusianum</i> var. <i>diamantiacum</i> (Nakai) M. Kim : K <sup>†</sup>						
259	<i>Pseudolysimachion linariifolium</i> var. <i>villosulum</i> (Nakai) Yamazaki : L, K <sup>†</sup>	*	*	*		*	
	<i>Veronica linariifolia</i> Pallas ex Link var. <i>villosula</i> (Nakai) T. Lee : P, M <sup>†</sup>						
260	<i>Pseudolysimachion rotundum</i> (Nakai) Holub : L, K <sup>†</sup>	*	*	*		*	
	<i>Veronica rotunda</i> Nakai : P, M <sup>†</sup>						
261	<i>Pseudolysimachion rotundum</i> var. <i>coreanum</i> (Nakai) Yamazaki : L, K <sup>†</sup>	*	*	*		*	
	<i>Veronica rotundum</i> Nakai var. <i>coreanum</i> (Nakai) T. Yamaz. : P, M <sup>†</sup>						
262	<i>Euphrasia coreana</i> W. Becker	*	*	*	*	*	*
263	<i>Euphrasia coreanalpina</i> Nakai ex Y. Kimura	*	*	*	*	*	*
264	<i>Euphrasia retrotricha</i> Nakai ex Yamazaki	*	*	*	*	*	*
265	<i>Pedicularis ishidoyana</i> Koidz. & Ohwi	*	*	*	*	*	*
266	<i>Pedicularis lunaris</i> Nakai	*	*	*	*	*	*
267	<i>Pedicularis nigrescens</i> Nakai	*	*	*	*	*	*
268	<i>Pedicularis resupinata</i> L. var. <i>umbrosa</i> Kom. ex Nakai		*	*	*	*	
269	<i>Pedicularis hallaisanensis</i> Hurus.		*	*	*	*	*
Orobanchaceae							
270	<i>Orobanche filocicola</i> Nakai	*	*	*		*	
Rubiaceae							
271	<i>Rubia pubescens</i> Nakai	*			*	*	*
272	<i>Galium pusillum</i> Nakai : L, K <sup>†</sup>	*	*	*		*	
	<i>Galium verum</i> L. for. <i>pusillum</i> (Nakai) M. Park : P, M <sup>†</sup>						
273	<i>Galium koreanum</i> Nakai	*	*	*	*	*	*
274	<i>Galium boreale</i> L. var. <i>koreanum</i> Nakai		*	*	*	*	*
275	<i>Asperula lasiantha</i> Nakai	*	*	*	*	*	*
Caprifoliaceae							
276	<i>Sambucus sieboldiana</i> var. <i>pendula</i> (Nakai) T. Lee : L, P, K <sup>†</sup>	*	*	*		*	
	<i>S. pendula</i> Nakai : M <sup>†</sup>						

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
277	<i>Abelia tyaihyoni</i> Nakai : L, P, N <sup>†</sup> <i>Zabelia tyaihyoni</i> (Chung ex Nakai) Hisauti & H. Hara : K, M, F <sup>†</sup>	*	*	*	*	*	*
278	<i>Weigela subsessilis</i> (Nakai) L. H. Bailey	*	*	*	*	*	*
279	<i>Lonicera subsessilis</i> Rehder		*	*	*	*	*
280	<i>Lonicera okamotoana</i> Ohwi : L <sup>†</sup> <i>L. macimowizii</i> (Rupre.) Regel var. <i>latifolia</i> (Ohwi) Hara : P, K, N <sup>†</sup>	*	*	*	*		
Valerianaceae							
281	<i>Patrinia saniculaefolia</i> Hemsley ex Nakai	*	*	*		*	
282	<i>Valeriana officinalis</i> var. <i>latifolia</i> Nakai : L <sup>†</sup> <i>Valeriana dageletiana</i> Nakai ex F. Maek. : P, K, M, F <sup>†</sup>	*	*	*		*	*
Dipsacaceae							
283	<i>Scabiosa zuikoensis</i> Nakai : L <sup>†</sup> <i>S. tschiliensis</i> Grunning for. <i>zuikoensis</i> (Nakai) W. Lee : P, K, M <sup>†</sup>	*	*	*		*	
284	<i>Scabiosa mansenensis</i> for. <i>pinnate</i> Nakai : L <sup>†</sup> <i>S. tschiliensis</i> Grunning for. <i>pinnate</i> (Nakai) W. Lee : P, K, M <sup>†</sup>	*	*	*		*	
285	<i>Scabiosa mansenensis</i> for. <i>alpina</i> Nakai : L <sup>†</sup> <i>S. tschiliensis</i> Grunning for. <i>alpine</i> (Nakai) W. Lee : P, K, M <sup>†</sup>	*	*	*		*	
Campanulaceae							
286	<i>Adenophora koreana</i> Kitam.	*	*	*	*	*	*
287	<i>Adenophora kayasanensis</i> Kitam.	*	*	*	*	*	*
288	<i>Adenophora obovata</i> Kitam.	*	*	*		*	*
289	<i>Adenophora pulchra</i> Kitam. : L, F <sup>†</sup> <i>A. triphylla</i> (Thunb.) A. DC. for. <i>linearis</i> (Hayata) Kitam. : P, K, M <sup>†</sup>	*	*	*		*	*
290	<i>Adenophora vericillara</i> Fisch. var. <i>abbreviata</i> H. Lev.			*	*	*	*
291	<i>Adenophora racemosa</i> J.G. Lee & S.T. Lee		*	*	*	*	*
292	<i>Adenophora remotidens</i> Hemsl.		*		*	*	*
293	<i>Adenophora erecta</i> S.T. Lee, J.G. Lee et S.T. Kim			*	*	*	*
294	<i>Campanula takesimana</i> Nakai : L, K, N, M, F <sup>†</sup> <i>C. punctata</i> Lamarck var. <i>takesimana</i> (Nakai) Kitamura : P <sup>†</sup>	*	*	*	*	*	*
295	<sup>‡</sup> <i>Hanabusaya asiatica</i> Nakai	*	*	*	*	*	*
296	<sup>‡</sup> <i>Hanabusaya latisejala</i> Nakai : L, N, M, F <sup>†</sup> <sup>‡</sup> <i>H. asiatica</i> (Nakai) Nakai var. <i>latisejala</i> (Nakai) W. Lee : P, K <sup>†</sup>	*	*	*	*	*	*
297	<i>Codonopsis minima</i> Nakai	*	*	*	*	*	*
Compositae							
298	<i>Leontopodium hallaisanense</i> Hand.-Mazz.		*	*	*	*	*
299	<i>Leontopodium leiolepis</i> Nakai	*	*	*	*	*	*
300	<i>Leontopodium coreanum</i> Nakai	*	*	*	*	*	*
301	<i>Aster koraiensis</i> Nakai : L, K, N, M, F <sup>†</sup> <i>Gymnaster koraiensis</i> (Nakai) Kitamura : P <sup>†</sup>	*	*	*	*	*	*
302	<i>Aster rupicola</i> H. Lev. & Vaniot : L <sup>†</sup> <i>Heteropappus chejuensis</i> Kitamura : P, N, M <sup>†</sup> <i>A. chezuensis</i> (Kitam.) Nakai : K <sup>†</sup>	*	*	*	*	*	
303	<i>Aster hayatae</i> Lev. et Vnt.		*	*	*	*	*
304	<i>Aster altaicus</i> var. <i>uchiyamae</i> (Nakai) Kitam.	*	*	*	*	*	*
305	<i>Ligularia taquetii</i> (H. Lev. & Vaniot) Nakai	*	*	*	*	*	*
306	<i>Ligularia fischeri</i> (Ledebour) Turczinow var. <i>spiciformis</i> Nakai		*	*	*	*	
307	<i>Senecio birubonensis</i> Kitam.	*	*	*	*	*	
308	<i>Cacalia pseudo-taimingasa</i> Nakai : L, P <sup>†</sup> <i>C. firma</i> Komarov var. <i>pseudo-taimingasa</i> (Nakai) M. Kim : K <sup>†</sup> <i>Parasenecio pseudotaimingasa</i> Nakai : N, M, F <sup>†</sup>	*	*	*	*	*	*
309	<i>Achillea sibirica</i> L. subsp. <i>rhodoptarmica</i> (Nakai) Kitamura : L <sup>†</sup> <i>A. alpina</i> L. ssp. <i>rhodo-ptarmica</i> (Nakai) Kitamura : P, N, M, F <sup>†</sup> <i>A. alpina</i> L. var. <i>rhodo-ptarmica</i> (Nakai) Kitamura : K <sup>†</sup>	*	*	*	*	*	*
310	<i>Chrysanthemum zawadskii</i> Herbich var. <i>lucidum</i> (Nakai) T. Lee		*	*		*	*
311	<i>Chrysanthemum sinchangense</i> Uyeki : P, K, M <sup>†</sup> <i>Dendranthema sinchangense</i> (Uyeki) Kitam. : N <sup>†</sup>		*	*	*	*	
312	<i>Artemisia japonica</i> Thunb. var. <i>angustissima</i> (Nakai) Kitam.	*	*	*		*	*
313	<i>Artemisia japonica</i> Thunb. var. <i>hallaisanensis</i> (Nakai) Kitam.	*	*	*	*	*	*

Table 2. (continued)

No.	Scientific name	L <sup>1</sup>	P <sup>2</sup>	K <sup>3</sup>	N <sup>4</sup>	M <sup>5</sup>	F <sup>6</sup>
314	<i>Cirsium rhinoceros</i> (H. Lev. & Vaniot) Nakai	*	*	*	*	*	*
315	<i>Cirsium rhinoceros</i> Nakai for. <i>albiflorum</i> Sakata	*	*	*		*	
316	<i>Cirsium setidens</i> (Dunn) Nakai	*	*	*	*	*	*
317	<i>Cirsium chanroenicum</i> Nakai : L, P, M <sup>†</sup> <i>C. setidens</i> var. <i>chanroenicum</i> (Nakai) M. Kim : K <sup>‡</sup>	*	*	*		*	
318	<i>Saussurea calcicola</i> Nakai	*	*	*	*	*	*
319	<i>Saussurea pseudo-gracilis</i> Kitam.	*	*	*	*	*	
320	<i>Saussurea polylepis</i> Nakai	*	*	*	*	*	*
321	<i>Saussurea macrolepis</i> (Nakai) Kitamura		*	*	*	*	*
322	<i>Saussurea maximowiczii</i> Herder var. <i>triceps</i> (Lev. & Vaniot) Kitam.		*	*	*	*	
323	<i>Saussurea triangulata</i> Tra. & Mey var. <i>pinnatifida</i> (Nakai) Kitam.	*	*	*		*	
324	<i>Saussurea conandrifolia</i> Kitam.	*	*	*	*	*	*
325	<i>Saussurea koidzumiana</i> Kitam.	*	*	*	*	*	*
326	<i>Saussurea rectinervis</i> Nakai	*	*	*	*	*	*
327	<i>Saussurea rorinsanensis</i> Nakai	*	*	*	*	*	*
328	<i>Saussurea eriophylla</i> Nakai	*	*	*	*	*	*
329	<i>Saussurea diamantiaca</i> Nakai	*	*	*	*	*	*
330	<i>Saussurea chabyoungsanica</i> H.T. Im			*	*	*	*
331	<i>Saussurea myokoensis</i> Kitam.	*	*	*	*	*	*
332	<i>Saussurea uchiyamana</i> Nakai	*	*	*	*	*	*
333	<i>Saussurea umbrosa</i> Kom. var. <i>herbicola</i> Nakai	*	*	*		*	
334	<i>Saussurea seoulensis</i> Nakai	*	*	*	*	*	*
335	<i>Serratula insularis</i> var. <i>koreanna</i> Kitamura : L <sup>†</sup> <i>S. coronata</i> L. ssp. <i>insularis</i> (Iljin) Kitam. for. <i>alpine</i> (Nakai) W. Lee : P, K, M <sup>†</sup>	*	*	*		*	
336	<i>Taraxacum hallaisanense</i> Nakai	*	*	*	*	*	*
337	<i>Hololeion maximowiczii</i> Kitam. var. <i>fauriei</i> (H. Lev. & Vaniot) Kitam.		*	*	*	*	*
338	<i>Ixeris chinodebilis</i> Kitam.		*	*	*	*	
339	<i>Youngia koidzumiana</i> Kitamura		*	*	*	*	*

<sup>1</sup>; Lee 1982<sup>2</sup>; Paik 1994<sup>3</sup>; Kim 2004<sup>4</sup>; Korea National Arboretum 2005<sup>5</sup>; Ministry of Environment 2005<sup>6</sup>; Flora of Korea Editorial Committee 2007<sup>†</sup>; Synonyms of scientific names when different names were used in the six reports<sup>‡</sup>; Korean endemic genus

endemic taxa were the Compositae (42 taxa, 12.4%), Ranunculaceae (19 taxa, 5.6%), Rosaceae (19 taxa, 5.6%), and Scrophulariaceae (19 taxa, 5.6%) (Table 3). *Saussurea* (Compositae) was the genus with the highest number of endemic taxa (17 taxa; 5% of endemic taxa).

Of the 339 Korean endemic taxa, 77 taxa (23%) inhabit only North Korea while 69 taxa (20%) inhabit both South and North Korea, and 193 taxa (57%) inhabit only South Korea. The endemic plants in North Korea should be comprehensively examined and listed soon, and endemic plants defined by different taxonomists should be individually identified. National-level conservation strategies should be established as quickly as possible to save endemic plants negatively affected by climate change and environmental change in the region.

## CONCLUSION

A total of 970 taxa of Korean endemic plants were listed in the six previous reports, but the actual number varies from 289 to 759 taxa among the reports. Of these 970 taxa, 290 taxa were recorded in only one document, while 129 taxa were identified in two documents, 212 taxa were recorded in three documents and 339 taxa were recorded in four or more of the six documents. The 339 taxa found in four or more previous plant lists consist of 11 taxa of Pteridophyta (5 families, 7 genera, 9 species and 2 varieties); 4 taxa of Gymnospermae (2 families, 4 genera, 3 species, and one forma); 54 taxa of Monocotyledons (Angiospermae; 8 families, 21 genera, 36 species, 15 varieties, and 3 forma); and 270 taxa of Dicotyledons (Angiospermae: 44 families and 123 genera, 204 species,

**Table 3.** Families of the 970 taxa and 339 taxa listed as endemic plants in Korea.

Family name	970 <sup>†</sup>				Family name	339 <sup>‡</sup>			
	Gen.	%	taxa	%		Gen.	%	taxa	%
Compositae	27	8.94	90	9.28	Compositae	15	9.68	42	12.39
Rosaceae	21	6.95	81	8.35	Ranunculaceae	9	5.81	19	5.60
Ranunculaceae	13	4.30	57	5.88	Rosaceae	10	6.45	19	5.60
Liliaceae	18	5.96	55	5.67	Scrophulariaceae	5	3.23	19	5.60
Leguminosae	18	5.96	52	5.36	Gramineae	8	5.16	15	4.42
Scrophulariaceae	7	2.32	33	3.40	Cyperaceae	2	1.29	14	4.13
Labiatae	14	4.64	31	3.20	Saxifragaceae	5	3.23	12	3.54
Saxifragaceae	9	2.98	30	3.09	Oleaceae	5	3.23	12	3.54
Gramineae	11	3.64	26	2.68	Campanulaceae	4	2.58	12	3.54
Campanulaceae	4	1.32	25	2.58	Leguminosae	7	4.52	11	3.24
Cyperaceae	3	0.99	24	2.47	Salicaceae	1	0.65	10	2.95
Oleaceae	8	2.65	24	2.47	Umbelliferae	6	3.87	9	2.65
Caryophyllaceae	7	2.32	23	2.37	Liliaceae	4	2.58	8	2.36
Betulaceae	4	1.32	22	2.27	Caryophyllaceae	3	1.94	8	2.36
Salicaceae	3	0.99	21	2.16	Cruciferae	2	1.29	7	2.06
Caprifoliaceae	4	1.32	21	2.16	Aspidiaceae	3	1.94	7	2.06
Umbelliferae	11	3.64	19	1.96	Crassulaceae	2	1.29	6	1.77
Crassulaceae	2	0.66	18	1.86	Labiatae	5	3.23	6	1.77
Orchidaceae	12	3.97	16	1.65	Fumariaceae	1	0.65	5	1.47
Fumariaceae	1	0.33	15	1.55	Caprifoliaceae	4	2.58	5	1.47
Cruciferae	5	1.66	15	1.55	Orchidaceae	3	1.94	4	1.18
Tiliaceae	2	0.66	13	1.34	Geraniaceae	1	0.65	4	1.18
Aceraceae	1	0.33	12	1.24	Betulaceae	2	1.29	3	0.88
Aspidiaceae	4	1.30	12	1.24	Pinaceae	3	1.94	3	0.88
Pinaceae	4	1.30	12	1.24	Aristolochiaceae	1	0.65	2	0.59
Aristolochiaceae	1	0.33	10	1.03	Tiliaceae	1	0.65	2	0.59
Geraniaceae	1	0.33	10	1.03	Aceraceae	0	0.00	0	0.00
Others	87	28.86	203	20.92	Others	43	27.74	75	22.13
Total	302	100	970	100	Total	155	100	339	100

<sup>†</sup>; Total number of endemic plants in the six reports

<sup>‡</sup>; Endemic plants listed in at least four of the six reports

one subspecies, 49 varieties and 16 forma).

The seven Korean endemic genera include *Mankyua*, *Megaleranthis*, *Coreanomecon*, *Pentactina*, *Echinosophora*, *Abeliophyllum*, and *Hanabusaya*. The four families with the most endemic species were Compositae, Ranunculaceae, Rosaceae, and Scrophulariaceae. *Saussurea* (Compositae) has the highest number of taxa within one genus (17 taxa, or 5% of endemic taxa).

Of the 339 taxa considered, 77 taxa (23%) inhabit only North Korea while 69 taxa (20%) inhabit both South and North Korea and 193 taxa (57%) inhabit only South Korea. The endemic plants in North Korea should be listed and examined more comprehensively and national-level conservation strategies should be established to protect Korean endemic plants negatively affected by climate change and environmental change.

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**Appendix 1.** 111 taxa recorded in only one of the six reports. The endemic plant list is arranged in the order of the Illustrated Flora of Korea (Lee 1999).

Lee (1982) : *Athyrium concinnum*, *Larix gmelinii* var. *principis-ruprechtii* for. *purpurea*, *Larix gmelinii* var. *principis-ruprechtii* for. *rubescens*, *Juniperus rigida* var. *longicarpa*, *Juniperus rigida* var. *modesta*, *Juniperus rigida* var. *pendula*, *Juniperus rigida* var. *seoulensis*, *Juniperus chinensis* var. *horizontalis*, *Agropyron yezeense* var. *koryoens*, *Carex glabrescens*, *Carex gotoi*, *Carex nakasimae*, *Carex vallecuculosa*, *Hemerocallis micrantha*, *Polygonatum koreanum*, *Polygonatum robustum*, *Asparagus verrucosus*, *Ophiopogon taquetii*, *Tofieldia fauriei*, *Tofieldia nuda* var. *koreana*, *Tricyrtis dilatata*, *Aletris fauriei*, *Coeloglossum coreanum*, *Platanthera taquetii*, *Salix hulteni*, *Salix hulteni* var. *elongate*, *Salix metaformosa*, *Salix orthostemma*, *Betula paishanensis*, *Carpinus coreana* var. *major*, *Carpinus coreana* var. *multiflora*, *Dianthus morii*, *Silene jensiseensis*, *Melandryum seoulensevae* var. *ramosum*, *Clematis subtriterinata*, *Anemone maxima*, *Thalictrum punctatum*, *Thalictrum raphanorhizon*, *Thalictrum spirostigma*, *Aconitum neotortuosum*, *Corydalis chosonensis*, *Cardamine millsiana*, *Rhodiola angusta*, *Rhodiola ramosa*, *Saxifraga oblongifolia*, *Deutzia coreana*, *Deutzia coreana* var. *tozawae*, *Deutzia coreana* var. *triradiata*, *Corylopsis coreana* var. *pubescens*, *Spiraea prunifolia* var. *simpliciflora*, *Sanguisorba unsanensis*, *Rosa silenidiflora*, *Pyrus ussuriensis* var. *diamantica*, *Pyrus ussuriensis* var. *macrostipes*, *Pyrus ussuriensis* var. *seoulensis*, *Pyrus ussuriensis* var. *nankaiensis*, *Sibbaldia coreana*, *Gleditsia japonica* var. *koreensis*, *Lespedeza bicolor* var. *melanantha*, *Lespedeza thunbergii* var. *intermedia*, *Lespedeza thunbergii* var. *intermedia* for. *alba*, *Lespedeza thunbergii* var. *intermedia* for. *retusa*, *Vicia venosa* var. *cuspidate*, *Vicia unijuga* var. *angustifolia*, *Vicia unijuga* var. *venusta*, *Lathyrus nomuranus*, *Lathyrus vaniotii*, *Astragalus setsureianus*, *Euphorbia hakutosanensis*, *Buxus microphylla* var. *koreana*, *Rhamnus koraiensis*, *Rhamnus koraiensis* var. *subglabra*, *Titlia rufa*, *Titlia taquetii*, *Titlia megaphylla*, *Titlia megaphylla* for. *subintegra*, *Viola kamibayashii*, *Viola koraiensis*, *Viola oldhamiana*, *Stellera rosea*, *Rotala koreana*, *Echinopanax horridum*, *Pimpinella koreana*, *Peucedanum hakuunense*, *Libanotis coreanum*, *Bothriospermum imall*, *Stachys palustris* var. *imaii*, *Physalis repens*, *Scrophularia koreiensis* var. *velutina*, *Scrophularia koreiensis*, *Scrophularia alata* var. *borealikoreana*, *Pseudolysimachion ovatum*, *Galium remotiflorum*, *Sambucus sieboldiana* for. *glaberrima*, *Sambucus sieboldiana* var. *miquelii* for. *velutina*, *Sambucus latipinna*, *Weigela florida* for. *alba*, *Weigela florida* for. *candida*, *Weigela florida* for. *subtricolor*, *Lonicera cerasoides*, *Lonicera coreana*, *Lonicera monantha*, *Lonicera subhispidata*, *Adenophora grandiflora*, *Chrysanthemum zawadskii* var. *alpinum*, *Chrysanthemum leiphyllum*, *Artemisia brachyphylla*, *Cirsium maackii* var. *nakaiianum*, *Saussurea triangulate* var. *alpina*, *Saussurea nomurae*, *Saussurea neoserrata*, *Senecio koreanus* (111 taxa).

Paik (1994) : *Castanopsis cuspidate*, *Agrimonia coreana* for. *pilosella*, *Vicia cracca* for. *leucantha*, *Trifolium lupinaster* (4 taxa).

Kim (1999) : *Abies nephrolepis* for. *nigrocarpa*, *Picea koraiensis* var. *tonaiensis*, *Arundinella hirta* for. *variegata*, *Oplismenus undulatifolius* for. *coreanum*, *Miscanthus sinensis* var. *albiflorus*, *Miscanthus sinensis* var. *chejuensis*, *Carex okamotoi* for. *variegata*, *Carex micrantha*, *Hosta capitata* for. *albiflora*, *Hosta clausa*, *Allium scorodoprasum* var. *multituberculatum*, *Allium cyaneum* for. *albiflorum*, *Disporum ovale* for. *album*, *Lilium hansonii* for. *mutatum*, *Lilium amabile*, *Lilium tsingtauense* for. *carneum*, *Lilium callosum* for. *flavum*, *Polygonatum odoratum* var. *pluriflorum* for. *variegatum*, *Smilacina japonica* for. *luteo-carpa*, *Smilax sieboldii* for. *inermis*, *Paris verticillata* for. *nigra*, *Iris odaesanensis* for. *albiflora*, *Iris sanguinea* for. *albiflora*, *Iris ensata* var. *spontanea* for. *alba*, *Cypripedium guttatum* var. *koreanum* for. *albiflorum*, *Gymnadenia cucullata* var. *variegata*, *Gymnadenia conopsea* for. *albiflora*, *Habenaria chejuensis*, *Pogonia japonica* for. *albiflora*, *Neottia hypocaustoptica*, *Alnus japonica* var. *resinosa*, *Alnus japonica* for. *arguta*, *Asarum patens* for. *non-maculatum*, *Asarum maculatum* for. *viride*, *Asarum sieboldii* var. *mandshuricum* for. *viride*, *Asarum sieboldii* var. *sieboldii* for. *cornutum*, *Asarum versicolor* for. *non-maculatum*, *Persicaria lapathifolia* for. *alba*, *Pseudostellaria angustifolia*, *Pseudostellaria multiflora*, *Cucubalus baccifer* for. *atropurpureus*, *Dianthus superbus-chinensis*, *Dianthus superbus* var. *longicalycinus* for. *albiflorus*, *Clematis mankiuensis*, *Clematis taeguensis*, *Clematis brachyura* for. *hexasepala*, *Clematis heracleifolia* for. *albiflora*, *Clematis mandshurica* for. *lancifolia*, *Delphinium maackianum*, *Pulsatilla tongkangensis* for. *longisepala*, *Ranunculus japonicus* for. *albiflorus*, *Ranunculus quelpaetensis* for. *albiflorus*, *Adonis multiflora* for. *argentatus*, *Adonis amurensis*, *Adonis pseudoamurensis* for. *viridescensicalyx*, *Aconitum napiforme* for. *albiflorum*, *Schisandra nigra* for. *viridicarpa*, *Lindera obtusiloba* for. *ovate*, *Lindera obtusiloba* for. *quinquelobum*, *Papaver radicum* var. *pseudo-radicatum* for. *dissectipetalum*, *Papaver radicum* var. *pseudo-radicatum* for. *albiflorum*, *Corydalis wandoensis*, *Corydalis ambigua* for. *lacticolor*, *Corydalis decumbens* for. *albiflorus*, *Corydalis grandicalyx* for. *albifloris*, *Corydalis incisae* for. *albiflora*, *Corydalis remota* for. *albiflora*, *Cardamine impatiens* var. *eriocarpa*, *Cardamine resedifolia* var. *morii*, *Orostachys chongsunensis*, *Orostachys latiellipticus*, *Orostachys margaritifolius*, *Orostachys ramosus*, *Orostachys minutus* for. *abus*, *Orostachys iwarenge* for. *magnus*, *Astilbe rubra* for. *albiflora*, *Hydrangea macrophylla* var. *acuminata* for. *buergeri*, *Potentilla matsumurae* for. *alba*, *Rubus coreanus* for. *inermis*, *Rubus coreanus* for. *viridicaulis*, *Rubus phoenicolasius* for. *albiflorus*, *Filipendula formosa* for. *albiflora*, *Rosa mutiflora* for. *inermis*, *Prunus linearipetalus*, *Prunus verecunda* for. *pendula*, *Lespedeza rosea*, *Astragalus membranaceus* for. *albiflorus*, *Oxytropis anertii* for. *alba*, *Amphicarpa trisperma* for. *alba*, *Crotalaria chrysantha*, *Geranium shikokianum* var. *quelpartense* for. *albiflorum*, *Geranium koraiense* var. *chejuense*, *Zanthoxylum ailanthoides* for. *inermis*, *Euphorbia ebracteolata* for. *magna*, *Euphorbia ebracteolata* for. *coreana*, *Glochidion chodoense*, *Ilex x wandoensis*, *Impatiens noli-tangere* var. *pallid*, *Hibiscus syriacus* var. *micanthus*, *Viola woosanensis*, *Aralia elata* for. *inermis*, *Kalopanax pictum* for. *inermis*, *Sium heterophyllum*, *Primula sachalinensis* for. *albida*, *Primula sieboldii* for. *albiflora*, *Syringa patula* var. *kamibayashii*, *Gentiana axillariflora* var. *coreana* for. *alba*, *Gentiana scabra* var. *buergeri* for. *alba*, *Swertia pseudochinensis* for. *alba*, *Calystegia sepium* for. *album*, *Callicarpa chejuensis*, *Polemonium caeruleum* ssp. *kiushianum* for. *albiflorum*, *Ajuga decumbens* for. *rosa*, *Scutellaria dentata* var. *alpina* for. *albida*, *Scutellaria indica* var. *indica* for. *albiflora*, *Scutellaria strigillosa* var. *yezoensis* for. *albiflora*, *Thymus quinquecostatus* for. *albus*, *Thymus quinquecostatus* for. *magnus*, *Elsholtzia splendens* for. *albiflora*, *Elsholtzia splendens* for. *roseola*, *Elsholtzia hallasanensis*, *Elsholtzia hallasanensis* for. *albiflora*, *Isodon inflexus* for. *albiflora*, *Phlomis umbrosa* for. *albiflora*, *Melampyrum setaceum* for. *albiflorum*, *Pedicularis resupinata* var. *oppositifolia* for. *alba*, *Pedicularis resupinata* var. *resupinata* for. *albiflora*, *Veronica stelleri* var. *longistyla* for. *rufescens*, *Adenophora tyosenensis*, *Adenophora triphylla* for. *albiflora*, *Adenophora curvidens* for. *albiflora*, *Adenophora remotiflora* var. *hirticalycis*, *Lobelia chinensis* for. *tetrapetala*, *Inula salicina* var. *minipetala*, *Aster pseudoglehni*, *Aster spathulifolius* for. *alba*, *Aster spathulifolius* for. *oharai*, *Aster magnus*, *Aster magnus* for. *albiflorus*, *Aster hispidus* for. *albiflora*, *Ligularia jaluensis*, *Ligularia intermedia*, *Artemisia orthobotrys*, *Artemisia gmelini* for. *discolor*, *Cirsium setidens* for. *alba*, *Erigeron thunbergii* var. *glabratus* for. *albiflorus*, *Hemistepta lyrata* for. *alba*, *Crepidium hallasanense* (150 taxa).

KNA (2005) : *Kyllinga diflora*, *Eriocaulon latipetalum*, *Heloniopsis koreana*, *Heloniopsis tubiflora*, *Parasenecio koraiensis* (5 taxa).

ME (2005) : *Polygonatum cryptanthum*, *Lespedeza inshanica*, *Lespedeza melanantha* (3 taxa).

FKEC (2007) : *Luzula rufescens*, *Commelina mina*, *Aspidistra elatior*, *Veratrum oxysepalum*, *Pulsatilla dahurica*, *Spiraea microgyna*, *Rubus parvifolius* var. *taquetii*, *Geranium koreanum* var. *koreanum*, *Zanthoxylum coreanum*, *Rhododendron yedoense* for. *poukhanense*, *Rhododendron mucronulatum* var. *mucronulatum*, *Syringa wolfii* var. *hirsute*, *Ligustrum acutissimum*, *Gardneria insularis*, *Pseudolysimachion kiusianum* var. *glabrifolium*, *Lonicera tatarinovi* var. *leptantaha*, *Achillea ptarmica* var. *acuminata* (17 taxa).

**Appendix 2.** 129 taxa are recorded twice in the six reports. The endemic plant list is arranged in the order of the Illustrated Flora of Korea (Lee 1999).

*Polystichum cyrtolepidotum*(P: M), *Athyrium subimbricatum*(L: M), *Cephalotaxus koreana*(P: K), *Abies nephrolepis* for. *chlorocarpa*(L: K), *Abies koreana* for. *chlorocarpa*(L: K), *Abies koreana* for. *nigrocarpa*(L: K), *Abies koreana* for. *rubrocarpa*(L: K), *Zostera geojeensis*(N: F), *Sasa borealis* var. *chiisanensis*(L: F- S. *chiisanensis*), *Carex chosonica*(L: M), *Eriocaulon tenuissima*(L: P), *Luzula sudetica* var. *nipponica*(N: F), *Luzula odaesanensis*(K: F), *Hosta minor*(N: F), *Hosta jonesii*(N: F), *Hosta venusta*(N: F), *Hemerocallis hakuunensis*(L: F), *Hemerocallis taeanensis*(N: F), *Allium koreanum*(N: M), *Allium thunbergii* var. *teretifolium*(N: M), *Lilium hansonii*(K: F), *Lilium amabile*(K: F), *Lilium tenuifolium* var. *chrysanthum*(P: M), *Epipactis albiflora*(P: M), *Populus glandulosa*(N: F), *Salix pseudolasiogyne*(N: F), *Juglans mandshurica* for. *stenocarpa*(P: K), *Juglans mandshurica* var. *sieboldiana*(P: K), *Betula schmidtii* var. *lancea*(P: K- B. *schmidtii* for. *lancea*), *Betula chinensis* var. *angusticarpa*(P: K), *Betula chinensis* var. *collina*(P: K), *Quercus* × *dentato-mongolica*(P: K), *Quercus* × *alieno-serratoideis*(P: K), *Celtis korainensis* var. *arguta*(P: K), *Asarum patens*(K: N), *Asarum versicolor*(K: N- A. *chungbuensis*), *Asarum sieboldii* var. *sieboldii* for. *koreanum*(K: N- A. *koreanum*), *Minuartia imbricata* var. *koreana*(L: M- M. *macrocarpa* var. *koreana*), *Cerastium furcatum* var. *koreanum*(L: M- C. *rubescens* var. *ovatum*), *Melandryum seoulense*(L: M- M. *yanoei*), *Clematis koreana* var. *umbrosa*(P: K), *Clematis chiisanensis*(P: K), *Clematis koreana* var. *biternata*(P: K), *Clematis crassisejala*(P: K), *Clematis brachyura*(N: F), *Clematis heracleifolia* for. *rosea*(P: K), *Clematis koreana* for. *lancifolia*(P: M), *Pulsatilla tongkangensis*(K: F), *Ranunculus tachiroei* for. *glabrescens*(P: M), *Aconitum chiisanense*(L: F), *Cimicifuga austrokoreana*(N: F), *Cimicifuga heracleifolia* var. *bifida*(N: F), *Lindera glauca* var. *salicifolia*(P: K), *Papaver coreanum*(L: M), *Cardamine amaraeformis*(L: K), *Cardamine koreana*(L: K), *Orostachys kanboensis*(P: K), *Sedum rotundifolium*(P: K), *Sedum lepidopodium*(P: K), *Aceriphyllum acanthifolium*(L: M), *Deutzia parviflora* var. *barbinervis*(P: K- D. *parviflora* for. *barbinervis*), *Deutzia parviflora* var. *obscura*(P: K- D. *parviflora* for. *obscura*), *Deutzia parviflora* var. *pilosa*(P: K- D. *parviflora* for. *pilosa*), *Deutzia hamata* var. *latifolia*(P: K- D. *hamata* for. *latifolia*), *Philadelphus schrenckii*(N: F), *Philadelphus koreanus* var. *robustus*(P: K- P. *koreanus* for. *robustus*), *Philadelphus schrenckii* var. *lasiogynus*(P: K- P. *schrenckii* for. *lasiogynus*), *Ribes komarovii* var. *breviracemum*(P: K- R. *komarovii* for. *breviracemum*), *Hydrangea macrophylla* var. *acuminata* for. *fertilis*(K: F- H. *serrata* for. *fertilis*), *Distylium racemosum* for. *latifolia*(P: M), *Exochorda serratifolia* var. *oligantha*(P: K- E. *serratifolia* for. *oligantha*), *Spiraea pseudocrenata*(N: F), *Spiraea nankaiensis*(P: K), *Stephanandra incise* var. *quadrifissa*(P: K), *Rubus phoenicolasius*(P: M), *Rubus sumatranus* var. *myriadenus*(P: K), *Rubus hirsutus* var. *xanthocarpa*(P: K), *Sanguisorba officinalis* var. *glabularis*(P: K), *Sanguisorba argutidens*(L: M), *Rosa multiflora* var. *quelpaertensis*(P: K), *Rosa multiflora* var. *pilosissima*(P: K), *Rosa taisensis*(P: K), *Prunus meyeri*(P: K), *Prunus yedoensis*(P: K), *Prunus verecunda* var. *sontagiae*(P: K), *Pyrus ussuriensis* var. *hakunensis*(L: M), *Crataegus komarovii*(L: M), *Albizia coreana*(L: K- A. *kalkora* var. *coreana*), *Vicia unijuga* var. *ohwiana*(P: M- V. *ohwiana*), *Vicia linearifolia*(K: F), *Geranium eriostemon* var. *glabrescens*(P: M), *Euonymus flavescens*(P: K), *Acer mono* var. *horizontale*(P: K- A. *mono* for. *horizontale*), *Acer truncatum* var. *barbinerve*(P: K- A. *truncatum* for. *barbinerve*), *Acer palmatum* var. *pilosum*(P: K- A. *palmatum* for. *pilosum*), *Acer pseudo-sieboldianum* var. *lanuginosum*(P: K- A. *pseudo-sieboldianum* for. *lanuginosum*), *Acer micro-sieboldianum*(P: K), *Acer pseudo-sieboldianum* var. *ambiguum*(P: K- A. *pseudo-sieboldianum* for. *ambiguum*), *Acer pseudo-sieboldianum* var. *ishidoyanum*(P: K- A. *pseudo-sieboldianum* for. *ishidoyanum*), *Impatiens aphanantha*(P: K), *Titlia ovalis*(L: F), *Tilia amurensis* for. *polyantha*(P: K), *Tilia mandshurica* for. *depressa*(P: K), *Tilia mandshurica* for. *villivarpa*(P: K), *Trapa bicornis* var. *koreanus*(N: F- T. *bicornis*), *Acanthopanax seoulense*(L: P), *Acanthopanax rufinerve*(L: P), *Angelica jaluana*(L: F), *Daucus littoralis* var. *koreana*(P: K), *Rhododendron mucronulatum* var. *lucidum*(P: K- R. *mucronulatum* for. *lucidum*), *Vaccinium koreanum*(L: F- V. *hirtum* var. *koreanum*), *Primula modesta* var. *hannasanensis*(N: F), *Chionanthus retusa* var. *coreana*(P: K- C. *retusa* for. *coreana*), *Ligustrum quihoui* var. *latifolium*(P: K), *Abeliophyllum distichum* for. *eburneum*(L: K), *Abeliophyllum distichum* for. *viridicalycinum*(L: K), *Abeliophyllum distichum* for. *obtusicaarpum*(L: K), *Scutellaria indica* var. *alba*(K: M), *Scutellaria indica* var. *coccinea*(K: M), *Scutellaria pekinensis* var. *maxima*(K: M), *Phlomis koraiensis*(L: K), *Weigela toensis*(L: K- W. *florida* for. *toensis*), *Weigela subsessilis* var. *mollis*(P: K- W. *subsessilis* for. *mollis*), *Aster caber* var. *minor*(P: K- A. *caber* for. *minor*), *Dendranthema coreanum*(N: F), *Anaphalis sinica* subsp. *morii*(L: M), *Saussurea nutans*(L: F- S. *tanakae*), *Syneilesis palmate* var. *subconcolor*(P: K- *Syneilesis palmate* for. *subconcolor*), *Hieracium coreanum*(L: F).

- ; Synonyms of scientific names when different names were used in six previous reports.

L ; 34 taxa are recorded in Lee (1982)

P ; 68 taxa are recorded in Paik (1994)

K ; 79 taxa are recorded in Kim (2004)

N ; 21 taxa are recorded in KNA (2005)

M ; 27 taxa are recorded in ME (2005)

F ; 29 taxa are recorded in FKEC (2007)



**Appendix 3.** 212 taxa recorded in three of the six reports. The endemic plant list is arranged in the order of the Illustrated Flora of Korea (Lee 1999).

*Isotes koreana*(K: N: F), *Cyrtomium caryotideum* var. *koreanum*(P: K: M), *Dryopteris uniformis* for. *coreana*(P: K: M), *Asplenium curtidentis*(P: K: M), *Picea pungsanensis* var. *intercedens*(P: K: N), *Juniperus rigida* var. *koreana*(L: P: K), *Arundinaria munsuensis*(K: N: F), *Pseudosasa japonica* var. *purpurascens*(P: K: M), *Agrostis canina* for. *mutica*(P: K: M), *Calamagrostis paishanensis*(L: N: F), *Agropyron ciliare* for. *hackelianum*(P: K: M), *Carex siroumensis*(P: K: M), *Carex holotricha*(P: K: M), *Commelina communis* for. *leucantha*(P: K: C. *communis* var. *angustifolia* for. *leucantha*: M), *Hosta minor* for. *alba*(P: K: M), *Hosta longipes* for. *alba*(P: K: M), *Hosta yingeri*(K: N: F), *Allium linearifolium*(K: N: M), *Allium taquetii*(P: K: M), *Erythronium japonicum* for. *albiflorum*(P: K: M), *Lilium amabile* var. *kwangnungensis*(P: K: L. *amabile* for. *kwangnungensis*: M), *Polygonatum humillimum*(L: K: P. *humile* for. *humillimum*: N: P. *humile* var. *humillimum*), *Polygonatum stenanthum*(L: P: M), *Iris rossii* for. *alba*(P: K: M), *Sisyrinchium angustifolium* for. *album*(P: K: M), *Cypripedium guttatum* var. *koreanum*(P: K: M), *Epipactis puзенensis*(P: K: M), *Habenaria linerarifolia* for. *integriloba*(P: K: M), *Populus davidiana* for. *laticuneata*(P: K: M), *Populus tomentiglandulosa*(K: N: F), *Salix glandulosa* var. *pilosa*(P: K: F), *Salix sericeo-cinerea* for. *lanata*(P: K: M), *Salix koriyanagi* for. *rubra*(P: K: M), *Platycarya strobilacea* for. *coreana*(P: K: M), *Betula chinensis* var. *lancifolia*(P: K: B. *chinensis* for. *lancifolia*: M), *Betula microphylla* var. *coreana*(L: P: K), *Betula cyclophylla*(L: P: K), *Betula fusenensis*(L: P: K), *Alnus mandshurica* for. *barbinervis*(P: K: M), *Alnus vermicularis*(L: P: K), *Alnus japonica* var. *serrata*(P: K: A. *japonica* for. *serrata*: M), *Carpinus tschonoskii* var. *brevicalycina*(P: K: M), *Carpinus tschonoskii* var. *eximia*(L: P: K: C. *tschonoskii* for. *eximia*), *Carpinus coreana*(L, P: C. *turczaninowii* var. *coreana*: K: C. *turczaninowii* for. *coreana*), *Corylus hallaisanensis*(P: K: *Corylus sieboldiana* var. *hallaisanensis*: N), *Fagus japonica* var. *multinervis*(P: K: N: F. *engleriana*), *Quercus acuta* for. *subserra*(P: K: M), *Quercus glauca* var. *nudata*(P: K: N), *Quercus salicina* for. *latifolia*(P: K: M), *Ulmus x mesocarpa*(K: M: F), *Celtis cordifolia*(P: K: F), *Celtis jessoensis* for. *angustifolia*(P: K: M), *Broussonetia guttata* var. *humilis*(P: K: B. *kazinkii* for. *humilis*: M), *Broussonetia papyrifera* for. *lucida*(P: K: M), *Persicaria longiseta* for. *breviseta*(P: K: M), *Cinnamomum camphora* var. *cyclophyllum*(P: K: C. *camphora* for. *cyclophyllum*: N), *Corydalis hallaisanensis*(K: N: F), *Corydalis hirtipes*(P: K: N), *Cardamine komarovii* for. *macrophylla*(P: K: M), *Draba daurica* var. *meyeri*(P: K: M), *Arabis coronata* for. *leucantha*(P: K: M), *Sedum aizoon* var. *ramosum*(P: K: M), *Mukdenia rossii* for. *multiloba*(P: K: M), *Philadelphus seoulensis*(K: N: F), *Corylopsis coreana*(L: P: K: C. *gotoana* var. *coreana*), *Sorbaria sorbifolia* for. *glandulosa*(P: K: M), *Spiraea fritschiana* var. *obtusifolia*(P: K: M, S. *fritschiana* for. *obtusifolia*), *Neillia uyekii*(P: K, M: N. *uyekii* for. *papillosa*), *Rubus crataegifolius* for. *subcuneatus*(P: K: M), *Rubus coreanus* for. *concolor*(P: K: M), *Rubus arcticus* for. *dentipetala*(P: K: M), *Rubus hirsutus* for. *argyi*(P: K: M), *Sanguisorba hakusanensis* var. *coreana*(P: K: S. *hakusanensis* for. *coreana*: M), *Rosa davurica* for. *alba*(P: K: M), *Rosa davurica* var. *ellipsoidea*(P: K: R. *davurica* for. *ellipsoidea*: M), *Prunus mandshurica* for. *barbinervis*(P: K: M), *Prunus padus* for. *seoulensis*(P: K: M), *Prunus padus* for. *rufo-ferruginea*(P: K: M), *Prunus koreaiensis*(P: K: M), *Prunus jamasakura* for. *densifolia*(P: K: M), *Prunus verecunda* for. *semplicifolia*(P: K: M), *Prunus coreana*(P: K: M), *Prunus japonica* for. *rufinervis*(P: K: P. *japonica* var. *nakaii* for. *rufinervis*: M), *Crataegus pinnatifida* var. *partita*(P: K: C. *pinnatifida* for. *partita*: M), *Crataegus pinnatifida* for. *bracteata*(P: K: M), *Crataegus pinnatifida* for. *betulifolia*(P: K: M), *Sorbus amurensis* var. *rufa*(P: K: S. *amurensis* for. *rufa*: N), *Sorbus amurensis* for. *latifoliolata*(P: K: M), *Sorbus alniifolia* for. *hirtella*(P: K: M), *Sorbus alniifolia* for. *oblongifolia*(P: K: M), *Gleditsia japonica* var. *stenocarpa*(L: P: K), *Maaackia fauriei*(L: N: F), *Lespedeza robusta*(P: K: M), *Lespedeza maximowiczii* for. *albiflora*(P: K: M), *Lespedeza maximowiczii* var. *tomentella*(P: K: L. *maximowiczii* var. *tomentella*: M), *Lespedeza bicolor* var. *sericea*(P: K: L. *bicolor* for. *sericea*: M), *Lespedeza pilosa* var. *pedunculata*(P: K: M), *Vicia chosenensis*(L: N: F), *Vicia pseudo-orobus* for. *albiflora*(P: K: M), *Vicia nipponica*(P: K: M), *Vicia unijuga* for. *minor*(P: K, M: V. *unijuga* var. *kausanensis*), *Lathyrus japonica* var. *aleuticus*(P: K: M), *Indigofera kirilowii* var. *coreana*(P: K: I. *kirilowii* for. *coreana*: M), *Indigofera kirilowii* for. *albiflora*(P: K: M), *Indigofera koreana*(K: N: M), *Astragalus membranaceus* var. *mandshuricus*(P: K: M), *Amblytropis verna* var. *longicarpa*(P: K: M), *Trifolium lupinaster* var. *alpinum*(L: K: M), *Geranium shikokianum* var. *quelpaertense*(P: K: M), *Geranium taebak*(K: N: F), *Zanthoxylum piperitum* for. *pubescens*(P: K: M), *Zanthoxylum schinifolium* var. *inermis*(P: K: Z. *schinifolium* for. *inermis*: M), *Dictamnus dasycarpus* for. *velutinum*(P: K: M), *Polygala japonica* for. *leucantha*(P: K: M), *Euonymus alatus* var. *uncinata*(P: K: N), *Euonymus trapococca*(L: P: K), *Euonymus quelpaertensis*(L: P: K), *Celastrus orbiculatus* var. *sylvestris*(P: K: M), *Acer ginnala* for. *coccineum*(P: K: M), *Acer ginnala* for. *divaricatum*(P: K: M), *Acer barbinerve* for. *glabrescens*(P: K: M), *Acer okamotoanum*(L: P: K), *Acer takesimensis*(L: P: K), *Zizyphus jujuba*(P: K: M), *Rhamnus shozyoensis*(L: P: K), *Vitis ficifolia* var. *sinuata* for. *glabrata*(P: K: V. *ficifolia* for. *glabrata*: M), *Tilia amurensis* for. *grosseserrata*(P: K: M), *Tilia koreana*(L: P: K), *Grewia parviflora* for. *angusta*(P: K, M: Grewia *parviflora* var. *parviflora* for. *angusta*), *Actinidia arguta* var. *rufinervis*(P: K: Actinidia *arguta* for. *rufinervis*: M), *Stewartia koreana*(K: N: F), *Camellia japonica* for. *albipetala*(P: K: M), *Eurya japonica* for. *integra*(P: K: M), *Eurya japonica* var. *aurescens*(P: K: M), *Hypericum attenuatum* var. *confertissimum*(P: K: M), *Viola kapsanensis* for. *albiflora*(P: K: M), *Dendropanax moribifera*(L: P: K: D. *trifidus* var. *moribifera*), *Acanthopanax koreanum*(L: P: K: *Eleutherococcus gracilistylus* var. *gracilistylus* for. *koreanus*), *Aralia elata* for. *rotundata*(P: K: M), *Bupleurum longiradiatum* for. *leveillei*(P: K: M), *Angelica purpureaefolia*(P: K: A. *anomala* var. *purpureaefolia*: M), *Homopteryx nakaiana*(L: K, M: *Coelopleurum nakaiianum*), *Phyllodoce coerulea* for. *albida*(P: K: M), *Rhododendron yedoense* var. *poukhanense* for. *albiflora*(P: K: M), *Rhododendron schlippenbachii* for. *albiflorum*(P: K: M), *Lysimachia vulgaris* var. *davurica* for. *koreana*(P: K: M), *Fraxinus rhynchophylla* var. *angusticarpa*(P: K: M), *Fraxinus sieboldiana* var. *quadrijuga*(P: K: M), *Syringa reticulata* for. *bracteata*(P: K: M), *Syringa dilatata*(L: K, M: S. *oblata* var. *dilatata*), *Gentiana squarrosa* var. *microphylla*(P: K: M), *Bothrispermum secundum* for. *albiflorum*(P: K: M), *Brachybotrys pariformis* for. *albiflora*(P: K: M), *Ajuga multiflora* for. *leucantha*(P: K: M), *Ajuga multiflora* for. *rosea*(P: K: M), *Meehania urticifolia* for. *rubra*(P: K: M), *Dracocephalum argunense* for. *alba*(P: K: M), *Lamium album* var. *cuspidatum*(P: K: M, L. *cuspidatum*), *Mentha arvensis* var. *barbata*(P: N: M), *Elscholtzia ciliata* for. *leucantha*(P: K: M), *Plectranthus inflexus* var. *canescens*(P: K, M: *Isodon inflexus* for. *canescens*), *Scopolia lutescens*(K: M: F), *Veronica linariaefolia* for. *alba*(P: K: *Pseudolysimachion linariaefolia* for. *alba*: M), *Melampyrum setaceum* var. *nakaianum*(P: K: M), *Melampyrum roseum* for. *albiflorum*(P: K: M: *M. roseum* var. *ovalifolium* for. *albiflorum*), *Euphrasia mucronulata*(L: N: F), *Pedicularis manshurica* var. *coreana*(P: K: M), *Abelia mosanensis*(L: P: M), *Abelia insularis*(L: P: *Abelia coreana* var. *insularis*: K: *Zabelia biflora* for. *insularis*), *Lonicera insularis*(L: K: *Lonicera morowi* var. *insularis*: F), *Valeriana fauriei* for. *coreana*(P: K: V. *fauriei* for. *mollis*: M), *Adenophora triphylla* for. *hirsuta*(P: K: M), *Adenophora taquetii*(L: M: F), *Adenophora palustris* for. *leucantha*(P: K: M), *Adenophora liliifolia* for. *alba*(P: K: M), *Adenophora grandiflora* for. *albiflora*(P: K: M), *Campanula glomerata* var. *dahurica* for. *alba*(P: K: M), *Hanabusaya asiatica* for. *alba*(P: K: M), *Ligularia jamesii*(L: K: M), *Senecio koreanus*(P: K: M), *Cacalia auriculata* var. *matsumurana*(P: K: M), *Cirsium toraiense*(P: K: M), *Cirsium vlassovianum* for. *leucanthum*(P: K: M), *Cirsium vlassovianum* var. *album*(P: K: C. *vlassovianum* for. *album*: M), *Cirsium setidens* for. *alba*(P: K: M), *Cirsium setidens* var. *niveo-araneum*(P: K: C. *setidens* for. *niveo-araneum*: M), *Cirsium chamroenicum* var. *lanceolata*(P: K: C. *setidens* var. *chamroenicum* for. *lanceolata*: M), *Cirsium zenii*(P: K: M), *Saussurea stenolepis*(P: K: M), *Saussurea grandifolia*(P: K: M), *Saussurea maximowiczii* for. *serrata*(P: K: M), *Saussurea saxatilis*(L: N: F: S. *komaroviana* var. *komaroviana*), *Saussurea alpicola*(L: K: M), *Saussurea diamantiaca* var. *longifolia*(L: P: K), *Breca segeta* for. *lactiflora*(P: K: M).

- ; Synonyms of scientific names when different names were used in the six reports.

L ; 37 taxa are recorded in Lee (1982)

P ; 182 taxa are recorded in Paik (1994)

K ; 199 taxa are recorded in Kim (2004)

N ; 28 taxa are recorded in KNA (2005)

M ; 164 taxa are recorded in ME (2005)

F ; 23 taxa are recorded in FKEC (2007)