

附录2 迁地保护的国家重点保护、受威胁和特有植物的比例和空缺在各科的分布

Appendix 2 The *ex situ* conserved species for National Key Protected Wild Plants (NKPWP), threatened species, and species endemic to China counted according to their belonging families and corresponding gaps

科名 Family	国家重点保护 NKPWP			受威胁 Threatened species			特有 Endemic species		
	迁地种数 No. of <i>ex situ</i> conserved	总种数 No. of total species	迁地比例 Proportion (%)	迁地种数 No. of <i>ex situ</i> conserved	总种数 No. of total species	迁地比例 Proportion (%)	迁地种数 No. of <i>ex situ</i> conserved	总种数 No. of total species	迁地比例 Proportion (%)
Acanthaceae							59	117	50
Achariaceae	1	1	100	4	4	100			
Actinidiaceae	5	5	100	28	48	58	37	63	59
Adoxaceae				1	2	50	1	2	50
Agavaceae							2	3	67
Akaniaceae	1	1	100						
Alismataceae	3	3	100	8	9	88	3	2	100
Alliaceae				1	5	20	23	56	41
Altingiaceae	1	1	100	5	5	100	5	5	100
Amaranthaceae		2		2	5	40	1	26	4
Amaryllidaceae				4	5	80	10	12	83
Amphorogynaceae				0	2	0	1	2	50
Anacardiaceae	1	1	100	8	11	72	12	27	44
Ancistrocladaceae				1	1	100			
Annonaceae	1	1	100	22	26	84	21	27	78
Anthericaceae					1		3	5	60
Apiaceae	5	7	71	11	31	35	68	329	21
Apocynaceae	2	2	100	17	36	47	61	149	41
Aquifoliaceae	1	1	100	14	27	51	73	152	48
Araceae				29	44	65	38	65	58
Araliaceae	5	10	50	12	24	50	43	83	52
Arecaceae	6	6	100	17	19	89	16	21	76
Aristolochiaceae				13	20	65	17	29	59
Asaraceae	2	2	100	15	20	75	25	36	69
Asparagaceae				3	3	100	6	14	43
Asphodelaceae							1	1	100
Aspleniaceae	1	1	100	4	6	66	6	15	40
Asteraceae	3	8	38	6	17	35	194	1115	17
Athyriaceae				8	13	61	26	116	22
Balsaminaceae				1	3	33	63	218	29
Begoniaceae	6	7	86	18	21	85	128	145	88
Berberidaceae	9	10	90	39	47	82	134	201	67
Betulaceae	3	3	100	6	10	60	29	55	53
Biebersteiniaceae							1	1	100
Bignoniaceae				3	8	37	13	17	76
Blechnaceae	1	1	100	1	3	33	1	1	100
Bombacaceae				0	1	0			
Boraginaceae		1		2	8	25	15	150	10
Borthwickiaceae				1	1	100			
Brassicaceae				0	17	0	13	118	11
Brownlowiaceae	1	1	100	1	1	100	1	1	100
Burmanniaceae				0	1	0	0	1	0
Burseraceae				3	3	100	2	2	100

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Buxaceae				7	10	70	15	27	56
Cabombaceae	1	1	100	1	1	100			
Calophyllaceae				1	1	100	1	1	100
Calycanthaceae	1	1	100	2	2	100	6	6	100
Campanulaceae		1		1	15	6	17	84	20
Cannabaceae				2	2	100	5	5	100
Capparaceae				5	8	62	3	7	43
Caprifoliaceae	1	2	50	2	10	20	19	30	63
Caryophyllaceae	1	1	100	2	10	20	16	197	8
Celastraceae	2	2	100	19	32	59	68	112	61
Centropiaceae	1	1	100	1	1	100			
Cercidiphyllaceae	1	1	100						
Chloranthaceae				1	1	100	5	9	56
Cibotiaceae	2	2	100						
Circaeasteraceae	1	1	100	1	1	100	1	1	100
Cistaceae	1	1	100	1	1	100			
Clethraceae				1	2	50	3	4	75
Clusiaceae	2	2	100	6	6	100	10	12	83
Colchicaceae				0	1	0	3	8	38
Combretaceae	3	3	100	4	4	100	0	1	0
Commelinaceae				1	1	100	5	8	62
Connaraceae				1	2	50	1	1	100
Convolvulaceae				1	2	50	7	25	28
Cordiaceae	1	1	100						
Cornaceae				4	4	100	9	18	50
Corsiaceae							1	1	100
Costaceae				1	1	100	2	2	100
Crassulaceae	6	10	60	11	52	21	27	139	19
Crypteroniaceae				1	1	100			
Cucurbitaceae	1	1	100	12	28	42	24	86	28
Cupressaceae	13	13	100	13	19	68	13	19	68
Cyatheaceae	12	15	80	4	4	100	1	1	100
Cycadaceae	23	24	96	22	22	100	13	12	100
Cymodoceaceae				0	2	0			
Cynomoriaceae	1	1	100	1	1	100			
Cyperaceae				3	14	21	61	340	18
Daphniphyllaceae							2	2	100
Davalliaceae				1	2	50	2	1	100
Dennstaedtiaceae							1	11	9
Diapensiaceae					1			1	
Dilleniaceae				1	1	100	1	1	100
Dioscoreaceae				26	28	92	17	21	81
Dipentodontaceae				0	1	0	1	2	50
Dipsacaceae				0	1	0	1	3	33
Dipteridaceae				2	2	100			
Dipterocarpaceae	8	9	89	9	12	75			

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Droseraceae	1	1	100	1	1	100	1	1	100
Dryopteridaceae				19	27	70	78	174	45
Ebenaceae	1	2	50	4	8	50	26	41	63
Ehretiaceae				1	1	100	4	7	57
Elaeagnaceae	1	1	100	4	8	50	23	54	43
Elaeocarpaceae				8	17	47	10	27	37
Ephedraceae	1	1	100	1	2	50	2	4	50
Ericaceae	5	7	71	86	142	60	270	606	45
Eriocaulaceae				1	2	50	2	13	15
Eucommiaceae				1	1	100	1	1	100
Euphorbiaceae	1	1	100	18	23	78	32	50	64
Fabaceae	40	58	69	60	126	47	157	638	25
Fagaceae	5	6	83	32	72	44	97	166	58
Frankeniaceae		1			1				
Fumariaceae	1	1	100	2	12	16	23	281	8
Garryaceae				1	2	50	4	11	36
Gentianaceae		1		4	15	26	41	280	15
Geraniaceae							6	18	33
Gesneriaceae	4	4	100	49	73	67	309	447	69
Ginkgoaceae	1	1	100	1	1	100	1	1	100
Gleicheniaceae							1	3	33
Gnetaceae					1		4	6	67
Grossulariaceae							11	46	24
Haloragaceae	1	1	100	1	2	50		2	
Hamamelidaceae	3	4	75	19	33	57	37	51	73
Helicteraceae	1	1	100	3	6	50	9	14	64
Heliotropiaceae							1	2	50
Helwingiaceae							1	4	25
Hemerocallidaceae					1		3	5	60
Hernandiaceae	1	1	100	1	2	50	3	8	38
Hydrangeaceae	2	2	100	3	4	75	47	97	48
Hydrocharitaceae	4	10	40	3	3	100	2	7	29
Hymenophyllaceae				2	8	25	0	6	0
Hypericaceae				4	10	40	18	41	44
Hypodematiaceae							3	7	43
Hypoxidaceae				1	1	100	3	3	100
Icacinaceae				4	5	80	6	6	100
Iridaceae		1		2	5	40	16	26	62
Isoetaceae	4	5	80	4	5	80			
Iteaceae							7	12	58
Ixioliriaceae							1	1	100
Ixonanthaceae				1	1	100			
Juglandaceae	1	2	50	6	7	85	6	10	60
Juncaceae							1	19	5
Lamiaceae	1	2	50	19	58	32	189	603	31
Lardizabalaceae				2	3	66	14	24	58

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Lauraceae	11	11	100	72	99	72	196	289	68
Lecythidaceae				2	2	100			
Lentibulariaceae		1			1		1	4	25
Liliaceae	14	48	29	16	47	34	19	80	24
Linderniaceae							2	13	15
Lindsaeaceae				4	5	80	0	1	0
Linnaeaceae				3	3	100	6	6	100
Loganiaceae				2	2	100	5	8	62
Lomariopsidaceae				0	1	0	0	1	0
Loranthaceae				0	1	0	4	19	21
Lowiaceae	2	2	100	2	2	100	3	3	100
Lycopodiaceae	23	51	45	8	11	72	8	25	32
Lygodiaceae				1	1	100			
Lythraceae	3	4	75	6	7	85	7	10	70
Maesaceae							5	10	50
Magnoliaceae	24	24	100	70	72	97	66	65	100
Malpighiaceae				1	1	100	3	9	33
Malvaceae				9	10	90	16	23	70
Marantaceae				2	2	100			
Marattiaceae	21	31	68	5	5	100	11	14	79
Mazaceae							9	22	41
Melanthiaceae	15	32	47	11	20	55	11	28	39
Melastomataceae	1	1	100	7	12	58	32	59	54
Meliaceae	3	3	100	6	7	85	2	4	50
Memecylaceae				1	1	100	2	5	40
Menispermaceae	2	2	100	13	23	56	18	38	47
Menyanthaceae							1	1	100
Metteniusaceae				1	1	100			
Mitrastemonaceae					1				
Moraceae	3	4	75	20	27	74	15	32	47
Morinaceae							3	7	43
Musaceae					1		5	14	36
Myricaceae				1	1	100	2	2	100
Myristicaceae	3	3	100	3	3	100			
Myrsinaceae				10	19	52	66	150	44
Myrtaceae				7	9	77	34	50	68
Nartheciaceae							4	10	40
Nelumbonaceae	1	1	100						
Nepenthaceae				1	1	100			
Nitrariaceae					1		1	1	100
Nyctaginaceae					1			2	
Nymphaeaceae	1	1	100	2	3	66	0	1	0
Nyssaceae	2	2	100	4	5	80	4	6	67
Ochnaceae	1	1	100	1	1	100	1	1	100
Oleaceae					1			1	
Oleaceae	4	4	100	10	14	71	55	76	72

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Oleandraceae				2	2	100			
Onagraceae					4			11	
Ophioglossaceae	2	2	100	2	2	100		3	
Opiliaceae							1	1	100
Orchidaceae	201	269	75	423	634	66	177	464	38
Orobanchaceae	1	3	33	2	36	5	15	382	4
Osmundaceae				1	1	100	1	1	100
Oxalidaceae							1	2	50
Paeoniaceae	7	11	64	8	10	80	10	12	83
Pandanaceae							1	1	100
Papaveraceae	1	3	33	0	7		10	45	22
Parnassiaceae							3	44	7
Passifloraceae				3	5	60	4	5	80
Paulowniaceae							6	10	60
Pentapetaceae	4	5	80	9	10	90	6	7	86
Pentaphragmataceae							1	1	100
Phymaceae				1	1	100	3	8	38
Phyllanthaceae				2	3	66	22	37	59
Phytolaccaceae							1	1	100
Pinaceae	18	23	78	35	47	74	29	51	57
Piperaceae				3	5	60	20	32	62
Pittosporaceae				2	4	50	25	46	54
Plagiogyriaceae							0	1	0
Plantaginaceae	2	2	100	1	3	33	11	62	18
Plumbaginaceae				2	3	66	4	12	33
Poaceae	13	29	45	25	51	49	305	768	40
Podocarpaceae	6	8	75	9	10	90	1	2	50
Podostemaceae	3	6	50	3	5	60		1	
Polemoniaceae								1	
Polygalaceae				3	6	50	9	26	35
Polygonaceae	1	1	100	6	13	46	22	70	31
Polypodiaceae	1	1	100	11	21	52	19	54	35
Posidoniaceae				0	1	0			
Primulaceae		1		13	30	43	101	234	43
Proteaceae				3	5	60	7	12	58
Psilotaceae				1	1	100			
Pteridaceae	3	3	100	12	16	75	31	80	39
Putranjivaceae							0	4	0
Rafflesiaceae	1	1	100	1	1	100			
Ranunculaceae	4	10	40	20	84	23	107	751	14
Rehmanniaceae		1		1	3	33	6	9	67
Rhamnaceae	1	1	100	8	11	72	46	91	51
Rhizophoraceae				3	3	100	2	2	100
Rosaceae	17	21	81	32	60	53	312	706	44
Rubiaceae	4	4	100	20	48	41	134	356	38
Ruscaceae	2	2	100	10	21	47	101	168	60

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Rutaceae	5	5	100	9	16	56	32	60	53
Sabiaceae				1	1	100	13	24	54
Salicaceae				11	49	22	52	266	20
Samydaceae				0	1	0			
Sapindaceae	11	12	92	40	47	85	50	64	78
Sapotaceae	3	3	100	3	6	50	4	8	50
Saururaceae				1	1	100	1	1	100
Saxifragaceae				2	5	40	27	211	13
Scheuchzeriaceae		1			1				
Schisandraceae	2	2	100	3	3	100	25	36	69
Schizaeaceae				1	2	50			
Schoepfiaceae							1	2	50
Scrophulariaceae		1		2	6	33	8	33	24
Selaginellaceae							8	14	57
Simaroubaceae							3	5	60
Sladeniaceae					1			1	
Smilacaceae					4		26	47	55
Solanaceae	2	2	100	9	15	60	12	25	48
Sparrmanniaceae				1	1	100	4	14	29
Stachyuraceae				2	2	100	4	3	100
Staphyleaceae				1	3	33	5	11	45
Stemonaceae				2	2	100	4	4	100
Stemonuraceae				2	2	100			
Sterculiaceae	7	8	88	13	17	76	10	22	45
Styracaceae	6	8	75	19	22	86	25	34	74
Surianaceae	1	1	100						
Symplocaceae				2	7	28	7	17	41
Taccaceae				3	3	100	2	2	100
Tamaricaceae	1	1	100	4	9	44	10	12	83
Tapisciaceae							1	1	100
Taxaceae	17	21	81	13	17	76	8	11	73
Tectariaceae				4	6	66	4	7	57
Ternstroemiaceae	1	1	100	17	31	54	51	100	51
Tetracentraceae	1	1	100				1	1	100
Tetramelaceae	1	1	100	1	1	100			
Theaceae	25	35	71	42	59	71	90	139	65
Thelypteridaceae				3	5	60	14	53	26
Thesiaceae					2		1	9	11
Thismiaceae							0	3	0
Thymelaeaceae	2	2	100	5	15	33	30	95	32
Tiliaceae	2	2	100	3	6	50	10	25	40
Tofieldiaceae							2	2	100
Triuridaceae					1			1	
Trochodendraceae				1	1	100			
Typhaceae		1		2	5	40	2	6	33
Ulmaceae	2	2	100	6	7	85	14	20	70

王利松, 湛青青, 廖景平, 黄宏文 (2023) 我国迁地保护的国家重点保护、受威胁和特有维管植物多样性. 生物多样性, 31, 22495. <https://www.biodiversity-science.net/CN/10.17520/biods.2022495>.

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Urticaceae				6	13	46	58	285	20
Valerianaceae	1	1	100				2	19	11
Velloziaceae		1			1			1	
Viburnaceae				4	8	50	36	51	71
Violaceae				4	14	28	19	47	40
Viscaceae							2	8	25
Vitaceae	1	2	50	4	19	21	31	94	33
Woodsiaceae		1		1	2	50	2	16	12
Ximeniaceae	1	1	100	1	1	100	1	1	100
Xyridaceae				1	1	100	1	1	100
Zingiberaceae	5	5	100	20	22	90	86	108	80
Zosteraceae					4				
Zygophyllaceae	1	1	100	1	1	100	1	3	33