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• 生物多样性与外来入侵物种管理专栏 •

# 不受欢迎的生物多样性：香港的外来植物物种

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**摘要**：香港早在19世纪中叶开始就有外来植物入侵的记录。迄今为止，已发现多达238种已归化的外来或怀疑为外来的植物，其中又以薇甘菊（*Mikania micrantha*）、五爪金龙（*Ipomoea cairica*）、假臭草（*Eupatorium catarium*）、大黍（*Panicum maximum*）等最常见。外来植物最常见于受人为干扰的生境，例如荒废农田及路旁等，而较少在天然林地生境及贫瘠的灌草丛中发现。外来植物对本地生态系统的影响主要局限于低地生境。它们常形成单优种群，减少了生境及动植物的多样性。外来动物对香港原生植物影响最大的是于20世纪70年代入侵的松树线虫（*Bursaphelenchus xylophilus*）。外来的脊椎动物也有可能对香港的植被演替产生影响。目前香港的外来植物当中，有些在大陆较少分布或没有记录。作为华南最大的港口，香港对外来物种的引入扮演着重要的角色。因此制定控制外来种在香港及华南地区的引入及传播的政策及措施非常重要。

**关键词**：香港，外来种，入侵种

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## The bad biodiversity：alien plant species in Hong Kong

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**Abstract**: The flora of Hong Kong has been well-surveyed since the mid nineteenth century and has had a long history of alien plant invasions. To the present day, more than 2130 wild plant species have been recorded, including 238 species that are probably naturalized alien species. Among them, *Mikania micrantha*, *Ipomoea cairica*, *Eupatorium catarium*, and *Panicum maximum* are most abundant. Naturalized alien plants are most prominent in human-disturbed habitats, such as abandoned farmland, wasteland and roadsides, and are rarely important in relatively undisturbed forest habitats, or in fire-maintained impoverished shrubland and grassland. Impacts of naturalized alien plants on local ecosystems are so far limited to lowland habitats, including wetlands and forest margins, where they form monospecific thickets, outcompete native plant species, and reduce local habitat and animal diversity. The biggest impact on the local flora by an alien species, however, was caused by the Pinewood Nematode introduced in the 1970s. Introduction of alien vertebrates may also have an impact on Hong Kong's vegetation. As the biggest port on the southern coast of China, Hong Kong has probably been an important entry point for alien species to China. Among Hong Kong's naturalized alien plants, some have only recently been noticed, and have few or no records from the mainland. The potential for these species to invade the mainland should not be neglected. Appropriate measures to control spread of these plants, both locally and regionally, are essential.

**Key words**: Hong Kong, exotic species, invasive species

## 1 外来物种入侵香港简史

香港位于华南沿海，气候属南亚热带季风区，具

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有明显的湿热雨季和清凉旱季。虽然本地地带性植被为南亚热带常绿阔叶林,但原生植被大部分早在数世纪前就已被破坏。现今主要山地植被为长期依赖山火维持的灌草丛和较小片的次生阔叶林,而低地环境则主要为城市市区和废弃农地及村庄(Dudgeon & Corlett, 1994)。由于香港毗邻广州,早在19世纪初已有外国人在港定居和经商,后来发展成世界最重要的港口之一,因此香港长久以来一直有外来物种入侵。由于植物学家自19世纪中期开始已在香港采集植物标本并出版植物名录(Bentham, 1842;Seeman, 1857),而香港也是华南第一个出版地方植物志的地区(Bentham, 1861),因此有关外来物种入侵的记录颇为详尽。

归化外来植物物种在香港的首次记录由Seeman (1857)作出,记录了至少44个物种,包括藿香蓟(*Ageratum conyzoides*)、鬼针草(*Bidens pilosa*)以及含羞草(*Mimosa pudica*)。Bentham (1861)在香港岛记录的1200多种维管束植物中,外来物种多达55种,包括银合欢(*Leucaena leucocephala*)、鸡蛋果(*Passiflora foetida*)以及野甘草(*Scoparia dulcis*)。根据过去在香港采集的标本和已经发表的植物志及名录,Corlett (1992a)发表了144种外来植物。而一项最近进行的全香港境内的陆地生物多样性调查(Corlett *et al.*, 2000)发现,在2130多种已经或曾经在香港野外地区生长的维管束植物中,最少有180种外来物种,另外还有50种虽然来源地未能确定但明显不是香港原生的植物物种。

## 2 香港的外来植物

附录1中列出了59科238种在香港已经或曾经逸为野生的外来或怀疑为外来的维管束植物,其中最主要的是菊科(Asteraceae)、禾本科(Poaceae)、莎草科(Cyperaceae)以及豆科(Fabaceae)。香港野生外来植物当中大部分起源于南美洲或热带美洲,但也有相当部分(78种)属泛热带或全球性分布而来源地未能确定的物种,其中包括很多禾本科和莎草科的农田杂草,例如马唐(*Digitaria ciliaris*)、稗(*Echinochloa crusgalli*)以及多种莎草属植物(*Cyperus* spp.)等。这些农田杂草可能于数世纪前就已经随着农作物分布到全世界。在这些已有记录的外来植物中,薇甘菊(*Mikania micrantha*)、五爪金龙(*Ipomoea cairica*)、马缨丹(*Lantana camara*)、假臭草(*Eupatorium catarium* (*Praxelis clematidea*))及大黍(*Panicum maximum*)是最常见又最具入侵性的物种,在湿润的低地生境及沿岸地区,巴拉草(*Urochloa mutica*)、象草(*Pennisetum purpureum*)及凤眼莲(*Eichhornia crassipes*)则较常见。

这些外来物种肆虐于近期或长期受人为干扰的市区或农地生境,例如植被经常被修剪的路旁、荒废农田、荒地、鱼塘以及公路和人行道边缘。一些寿命较长的物种如马缨丹、银合欢及象草更能在环境受干扰后挣扎求存数年甚至数十年。虽然如此,大部分香港的外来物种对目前香港分布最广、由山火维持的灌草丛生境及较少受干扰的林地生境来说,影响较小。而在上述生境边缘受人为干扰的地方,外来物种才得以蔓延。这种分布或许反映出大部分外来物种未能耐受天然林地生境中激烈的竞争和阴暗的环境及灌草丛生境的贫瘠泥土。由于香港位于热带北端,受大陆性气候影响而导致间中也有颇为严寒的冬天,因此部分源自热带的外来物种在香港的分布多被局限在低地环境。此类物种包括薇甘菊、五爪金龙及马缨丹等(Corlett, 1992b)。一些源自温带的物种如庭菖蒲(*Sisyrinchium rosulatum*)及蒲公英(*Taraxacum officinale*),则只能在气温较低的高海拔地区有分布。

虽然外来植物大多依赖人为干扰来传播及维持,但也有例外情况。如野生牛可以使外来植物尤其是薇甘菊蔓延至未受人为干扰的地区,但此论点至今仍未有实验证明。与牛关系最明显的外来植物是地桃花(*Urena lobata*)及梵天花(*U. procumbens*),它们的果实具有钩状刺,可以依附人的衣服或动物的皮毛得以传播。一些外来植物如仙人掌(*Opuntia dillenii*)、羽芒菊(*Tridax procumbens*)、红毛草(*Melinus repens*)及假臭草也曾成功地在干扰较少的沙滩内陆边缘繁衍。

由于大部分在香港广泛种植的外来树种都有在其他地方逸为野生而具有危害性的例子,这些树种也有可能具入侵性(Randel & Marinelli, 1996)。例如耳果相思(*Acacia auriculiformis*)在太平洋岛屿波多黎各及美国佛罗里达州(Francis & Liogier, 1991; Randall & Marinell, 1996; Anon., 2001),红胶木(*Lophostemon confertus*)在夏威夷(Wagner *et al.*, 1990),白千层(*Melaleuca quinquenervia*)在佛罗里达州(Di Stefano & Fisher, 1983; Randall & Marinelli, 1996; Turner *et al.*, 1998),曾在当地的植林过程中

逸为野生并对当地生态造成破坏。到目前为止，香港只有木麻黄（*Casuarina equisetifolia*）和银合欢有限度地蔓延至其他没有种植的地方，例如近郊的废地、花槽和人迹罕至的沙滩。明显为逸为野生的白千层幼树则曾在数个地点被发现有较多的分布（Hau，2001）。而在香港极为广泛种植的台湾相思（*Acacia confusa*）则暂时只有在一些人工林中发现小苗而未见较大的苗木。这些香港常用的植林树种当中，银合欢及白千层已被列入世界 100 种最恶性入侵种（IUCN，2001）。虽然这些树种尚未完全逸为野生，但由于它们在香港被非常广泛地种植为成片的纯林，意味着假如它们逸为野生，有可能带来严重的生态问题。虽然本地负责植树的部门已开始对外来物种的负面影响有所认识，上述的外来树种仍占近年种植的人工林中的很大部分。

此外，与乡村有关的经济树木也不少，它们的原生地都在华南地区，并非香港原生，却在不同程度上蔓延至附近林区。例如樟树（*Cinnamomum camphora*）和牙香树（*Aquilaria sinensis*）已在香港归化野生，并常见于低海拔树林。而龙眼（*Dimocarpus longan*）、荔枝（*Litchi chinensis*）和蒲桃（*Syzygium jambos*）则只是半归化，只局限于古老村落附近。

## 3　香港近期发现的归化外来植物

由于香港为华南地区最繁忙的港口，在本地归化的外来植物很有可能在邻近地区逸为野生。一些在香港有记录的外来植物在内地极少或从未有发现或记录。例如原产南美的假臭草早在 20 世纪 80 年代于香港首次被发现，但一直被误认为熊耳草（*Ageratum houstonianum*），直到 1995 年才有人辨认（Corlett & Shaw，1995；Veldkamp，1999）。这个物种自 80 年代起在香港的荒地、路边及市区就已经很常见，到了 90 年代开始在深圳被发现，现在则已经蔓延到广州附近。

近来在香港发现的另一个外来物种是大含羞草（*Mimosa pigra*），虽然在华南地区非常稀有，在香港目前只有 1 株能育的个体和数株幼苗，但也有可能给华南生物多样性带来严重威胁。据记录，此物种能适应年降雨量 700 ~ 2250 mm 的热带季风气候，亦即与香港及大部分华南沿海地区类似的气候。在非洲、澳洲北部及泰国，这个物种经已归化为野生。因为它能在湿地、河谷平原及路边形成茂密的有刺灌木丛，使湿地干涸，甚至遏止树林演替（Lonsdale *et al.*，1989），使很多原生野生动物不能生存。IUCN（2001）也已经把这一物种列入世界 100 种最恶性入侵种名单。内地有关方面也应该关注这些有可能在不久将来在内地蔓延的入侵种。

源自北美洲的互花米草（*Spartina alterniflora*）近年也在香港新界西北部具有国际性自然保育价值的米埔自然保护区附近出现。互花米草于 60 年代起引入中国大陆并在沿海浅滩广泛种植（Xie *et al.*，2001），近年已在华东以至广西及珠海沿海逸为野生（郑松发等，1999）。它具有很强的入侵性，能够形成稠密的单优群落，并可由海边入侵红树林生境以至完全改变鸟类赖以生存的环境。IUCN（2001）也已经将其列入世界 100 种最恶性入侵种。所幸互花米草目前在香港仍然比较稀少，主要在米埔西南方的白泥地区沙质成份较高的泥滩有发现，尚未在米埔自然保护区内出现。有关的管理部门如香港世界自然基金会及香港政府渔农自然护理署，已经对已发现的小片互花米草进行人工清除，但将来仍需在附近地区进行长时期的监测，以防其死灰复燃。

除了互花米草外，米埔自然保护区最近也受到另一外来植物无瓣海桑（*Sonneratia apetala*）的入侵。这种红树林树种源于印度洋孟加拉湾，早年引进到海南岛及深圳作红树林植林用途，并逸为野生。近年本地政府部门还种植少量于米埔附近地区。令人担心的是近年在米埔自然保护区的泥滩也有发现，怀疑是从深圳传播来的无瓣海桑苗木。虽然它是乔木形态，因此没有互花米草的危害性大，但由于它能适应本地环境并且生长迅速，能直接与本地的原生红树林树种形成竞争，有可能影响本地红树的生长以至导致其灭绝。

## 4　外来物种对本地动植物的影响

除了某些因土地用途改变而在本地继续减少的农地杂草外，大部分在香港值得关注的珍稀或狭域分布的植物通常分布于较少受干扰的树林生境及山间，这些地区都因为人为活动较少及土壤贫瘠而免受外来植物入侵。因此，外来植物为本地植物种群所带来的负面影响暂时只限于低地及湿地生境，包括废弃农地，湿地及树林边缘。但是由于这些生境过去数百年来长期受人为干扰影响，外来植物对这些生境的负面影响实在很难测度。可是，有些外来植物物种已开始入侵未受干扰的天然或半天然生境，例如互花米草及无瓣海桑已开始入侵泥滩及红

树林,而在海滩边缘则有羽芒菊、假臭草及木麻黄等。

外来植物引起的负面影响最为明显的例子要算是薇甘菊。它常在低地树林边缘繁衍,覆盖本地树种的树冠层,导致树木死亡,破坏树林生境,直接影响在树林栖息的动植物。这种情况曾在香港一个重要的鹭林——沙头角丫洲出现,该处是大白鹭(*Casmerodius albus*)、夜鹭(*Nycticorax nycticorax*)、小白鹭(*Egretta garzetta*)及牛背鹭(*Bubulcus ibis*)筑巢的地点(Wong *et al.*, 1999)。薇甘菊亦常与臂形草及凤眼莲在一些湿地生境内蔓延,形成单调环境,不但降低生境的多样性,使动物失去生境,更由于此类物种的产物不适合大部分动物食用,使资源不能被充分利用,从而减低动物多样性。由于香港某些荒废农地及湿地是多种本地或全球珍稀濒危的昆虫、两栖类、鱼类及水鸟的重要湿地生境,外来物种在此类生境生长无疑对生物多样性造成威胁。

对本地植物带来最大影响的外来物种莫过于70年代意外引入的松树线虫(*Bursaphelenchus xylophilus*),它在1982年才被鉴定,是由专吃松树树皮的天牛(Cerambycidae)传播的,最少只需6个月便能杀死松树(Dudgeon & Corlett, 1994)。马尾松(*Pinus massoniana*)曾是香港最重要的造林树种,也是次生林中的优势先锋树种,但在线虫入侵后的10年间几乎完全灭绝。

近年引入的脊椎动物最终也可能影响本地植被。例如栖于树上的泰国赤腹松鼠(*Callosciurus erythraeus thai*)便是于60年代从泰国引入的。自此种松鼠引入后,随即广布于当时并无原生松鼠的香港岛林区。它是数个树种在种子传播前的主要采食者,包括有常见的先锋树种山乌桕(*Sapium discolor*),因此最终可能改变本港地区的植被成份。此松鼠的另一亚种也曾引入新界,但是暂时未有广泛分布。事实上,香港在原始植被未被破坏前,本地也应有赤腹松鼠存在,因此泰国赤腹松鼠的引入可能正好恢复种子遭采食的天然压力。另外,一种体型较大的食果性雀鸟——黑领噪鹛(*Garrulax pectoralis*)在过去10年间亦开始广泛分布于香港,明显是人们有意释放的笼鸟。与泰国赤腹松鼠一样,在香港原始植被未被破坏前,本地是应该有与黑领噪鹛差不多的大型食果性雀鸟的。由于黑领噪鹛能吞下其他本地雀鸟不能吞食的较大果实,因此能帮助这些树种传播种子(Corlett, 2001),继而让一些不常见而结较大果实的树种如丛花厚壳桂(*Cryptocarya densiflora*)、粗壮润楠(*Machilus robusta*)、广东琼楠(*Beilschmiedia fordii*)和厚边木犀(*Osmanthus marginatus*)等得以繁衍。

## 5 结论

虽然很多外来植物都能在香港野外蔓延,但真正引起严重问题的却不多。现时这些外来植物的负面影响只局限在个别低地生境,这却不表示外来植物将来不会对本地生态造成重大破坏。很多在外地带来严重问题的入侵种暂时未在香港发现或繁衍,而当它们成功蔓延后也有可能带来严重影响。一些政府部门对外来物种的危害也缺乏认识。由于香港依赖自由贸易,因此实施边境管制以防引入植物难以落实。唯一的解决方案是在物种抵港时及尚未广泛逸为野生前尽快鉴定及评估其入侵性和对本地生态及原生物种的影响,并对恶性入侵种尽快消除,以免广泛蔓延。

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## 附录　香港有记录逸为野生的外来植物

Appendix　Naturalized exotic plant species recorded from Hong Kong

注[1]：P：泛热带分布；C：全世界性分布；Am：美洲；C. Am.：中美洲；T. Am：热带美洲；N. Am：北美洲；S. Am：南美洲；Af：非洲；T. Af：热带非洲；W. Af：非洲西部；S. Af：非洲南部；As：亚洲；MC：中国大陆；E：欧洲；NE：欧亚北部

注[2]：见 Corlett *et al.* (2000)

Note[1]：P：Pantropical；C：Cosmopolitan；Am：America；C. Am：Central America；T. Am：Tropical America；N. Am：North America；S. Am：South America；Af：Africa；T. Af：Tropical Africa；W. Af：West Africa；S. Af：South Africa；As：Asia；E：Europe；NE：Northern Eurasia；MC：Mainland China

Note[2]：Local abundance follows Corlett *et al.* (2000)

| 科<br>Family | 种名<br>Species | 来源地[1]<br>Origin | 生活型<br>Growth form | 生境<br>Habitat | 数量[2]<br>Local abundance |
|---|---|---|---|---|---|
| **Pteridophytes** | | | | | |
| Adiantaceae | *Adiantum capillus-veneris* L. | P | Herb | Urban areas | Common |
| Hemionitidaceae | *Pityrogramma calomelanos* (L.) Link | T. Am | Herb | On walls and earth banks | Restricted |
| **Dicotylydons** | | | | | |
| Acanthaceae | *Andrographis paniculata* (Burm. f.) Nees | India | Herb | Wasteland | Restricted |
| Acanthaceae | *Barleria cristata* L. | India | Subshrub | Shrubland | Restricted |
| Acanthaceae | *Justicia adhatoda* L. | C. Am | Shrub | Lowland forest margins | Restricted |
| Acanthaceae | *Thunbergia alata* Bojer ex Sims | T. Af | Climber | Wasteland | Restricted |
| Acanthaceae | *Thunbergia grandiflora* Roxb. | India | Woody climber | Forest margins | Common |
| Amaranthaceae | *Achyranthes aspera* L. | P | Herb | Wasteland | Common |
| Amaranthaceae | *Alternanthera philoxeroides* (Mart.) Griseb. | T. Am | Herb | Abandoned cultivation | Common |
| Amaranthaceae | *Alternanthera sessilis* (L.) DC. | P | Herb | Wasteland and cultivated areas | Common |
| Amaranthaceae | *Amaranthus spinosus* L. | S. Am | Herb | Wasteland | Common |
| Amaranthaceae | *Amaranthus viridis* L. | P | Herb | Wasteland | Very common |
| Amaranthaceae | *Celosia argentea* L. | P | Herb | Wasteland | Very common |
| Amaranthaceae | *Gomphrena celosioides* Mart. | S. Am | Herb | Wasteland | Restricted |
| Apiaceae | *Apium leptophyllum* (Pers.) F. Muell. | T. Am | Herb | Roadsides | Restricted |
| Apiaceae | *Eryngium foetidum* L. | T. Am | Herb | Wasteland and Grassland | Restricted |
| Apocynaceae | *Catharanthus roseus* (L.) G. Don | Af | Herb | Wasteland | Common |
| Asclepiadaceae | *Asclepias curassavica* L. | T. Am | Herb | Wasteland | Common |
| Asteraceae | *Acanthospermum hispidum* DC. | T. Am | Herb | Wasteland | Very rare |
| Asteraceae | *Ageratum conyzoides* L. | T. Am | Herb | Wasteland | Common |
| Asteraceae | *Ageratum houstonianum* Mill. | T. Am | Herb | Wasteland | Common |
| Asteraceae | *Artemisia verlotiorum* Lamotte | NE | Herb | Grassland | Restricted |

**附录 (续)** Appendix (continued)

| 科<br>Family | 种名<br>Species | 来源地[1]<br>Origin | 生活型<br>Growth form | 生境<br>Habitat | 数量[2]<br>Local abundance |
|---|---|---|---|---|---|
| Asteraceae | *Bidens alba* (L.) DC. | T. Am | Herb | Wasteland | Very common |
| Asteraceae | *Bidens bipinnata* L. | Am | Herb | Wasteland | Common |
| Asteraceae | *Bidens pilosa* L. | T. Am | Herb | Wasteland | Very common |
| Asteraceae | *Carpesium abrotanoides* L. | MC | Herb | | Very rare |
| Asteraceae | *Centipeda minima* (L.) A. Braun & Asch. | P | Herb | Wet fields and reservoir margins | Common |
| Asteraceae | *Conyza bonariensis* (L.) Cronquist | T. Am | Herb | Wasteland | Very common |
| Asteraceae | *Conyza canadensis* (L.) Cronquist | N. Am | Herb | Wasteland | Very common |
| Asteraceae | *Crassocephalum crepidioides* (Benth.) S. Moore | Af | Herb | Wasteland | Common |
| Asteraceae | *Elephantopus spicatus* Juss. ex Aubl. | T. Am | Herb | Wasteland | Restricted |
| Asteraceae | *Elephantopus tomentosus* L. | T. Am | Herb | Grassland and forest margins | Common |
| Asteraceae | *Emelia sonchifolia* (L.) DC. | P | Herb | Wasteland and cultivation | Very common |
| Asteraceae | *Erechtites valerianifolia* (Wolf) DC. | Am | Herb | Wasteland | Rare |
| Asteraceae | *Erigeron karvinskianus* DC. | T. Am | Herb | Roadsides and cultivated areas | Restricted |
| Asteraceae | *Eupatorium catarium* Veldkamp | T. Am | Herb | Wasteland | Very common |
| Asteraceae | *Eupatorium odoratum* L. | T. Am | Herb | Shrubland | Rare |
| Asteraceae | *Gamochaeta purpurea* (L.) Cabrera | Am | Herb | Wasteland and reservoir margins | Common |
| Asteraceae | *Gnaphalium polycaulon* Pers. | P | Herb | Wasteland, cultivated areas and reservoir margins | Common |
| Asteraceae | *Mikania micrantha* Kunth | T. Am | Climber | Wasteland | Very common |
| Asteraceae | *Sanvitalia procumbens* Lam. | T. Am | Herb | | Very rare |
| Asteraceae | *Senecio vulgaris* L. | NE | Herb | Wasteland | Very rare |
| Asteraceae | *Soliva anthemifolia* (Juss.) R. Br. | S. Am | Herb | Wasteland and cultivated areas | Restricted |
| Asteraceae | *Sonchus arvensis* L. | NE | Herb | Wasteland | Very common |
| Asteraceae | *Sonchus oleraceus* L. | NE | Herb | Wasteland | Very common |
| Asteraceae | *Spilanthes paniculata* Wall. ex DC. | P | Herb | Wasteland and streamsides | Common |
| Asteraceae | *Synedrella nodiflora* (L.) Gaertn. | T. Am | Herb | Wasteland | Very common |
| Asteraceae | *Taraxacum officinale* Weber | E | Herb | Grassland | Restricted |
| Asteraceae | *Tithonia diversifolia* (Hemsl.) A. Gray | T. Am | Herb | Wasteland | Common |
| Asteraceae | *Tridax procumbens* L. | T. Am | Herb | Wasteland | Very common |
| Asteraceae | *Vernonia cinerea* (L.) Less. | P | Herb | Wasteland | Very common |
| Asteraceae | *Wedelia trilobata* (L.) Hitchc. | T. Am | Herb | Wasteland and coastal areas | Common |
| Asteraceae | *Xanthium strumarium* L. | Am | Herb | Wasteland | Common |
| Basellaceae | *Anredera cordifolia* (Ten.) Steenis | S. Am | Climber | Fengshui woods | Restricted |
| Basellaceae | *Basella alba* L. | Asia | Climber | Village areas | Restricted |
| Boraginaceae | *Heliotropium indicum* L. | P | Herb | Wasteland | Common |
| Brassicaceae | *Capsella bursapastoris* Medik. | NE | Herb | Cultivated area and wasteland | Common |
| Brassicaceae | *Cardamine flexuosa* With. | NE | Herb | Cultivated areas | Common |
| Brassicaceae | *Coronopus didymus* (L.) Sm. | E | Herb | Wasteland and cultivated areas | Common |
| Brassicaceae | *Lepidium virginicum* L. | N. Am | Herb | Wasteland | Restricted |
| Brassicaceae | *Rorippa heterophylla* (Bl.) Williams | Asia | | | |
| Cactaceae | *Opuntia dillenii* Haw. | T. Am | Herb | Coastal areas | Common |
| Campanulaceae | *Laurentia longiflora* (L.) Endl. | T. Am | Herb | Wasteland | Common |
| Cannabaceae | *Humulus scandens* (Lour.) Merr. | MC | Climber | Wasteland | Very rare |
| Capparaceae | *Cleome rutidosperma* DC. | W. Af | Herb | Wasteland | Restricted |
| Capparaceae | *Cleome viscosa* L. | Asia | Herb | Wasteland | Restricted |
| Caryophyllaceae | *Cerastium fontanum* Baumg. | NE | Herb | Grassland | Restricted |
| Caryophyllaceae | *Myosoton aquaticum* (L.) Moench | NE | Herb | Cultivated areas and streamsides | Common |
| Caryophyllaceae | *Stellaria media* (L.) Vill. | C | Herb | Wasteland and cultivated areas | Common |
| Caryophyllaceae | *Stellaria uliginosa* Murray | NE | Herb | Wasteland and cultivated areas | Common |
| Casuarinaceae | *Casuarina equisetifolia* L. | Australia | Tree | Beaches and reclaimed land | Rare |

**附录 （续）** Appendix （continued）

| 科 Family | 种名 Species | 来源地[1] Origin | 生活型 Growth form | 生境 Habitat | 数量[2] Local abundance |
|---|---|---|---|---|---|
| Chenopodiaceae | *Chenopodium album* L. | NE | Herb | Wasteland | Restricted |
| Chenopodiaceae | *Chenopodium ambrosioides* L. | T. Am | Herb | Wasteland | Common |
| Convolvulaceae | *Argyreia acuta* Lour. | As | Woody climber | Wasteland | Rare |
| Convolvulaceae | *Argyreia nervosa* (Burm. f.) Bojer | India | Woody climber | Shrubland | Rare |
| Convolvulaceae | *Ipomoea alba* L. | T. Am | Climber | Wasteland | Restricted |
| Convolvulaceae | *Ipomoea aquatica* Forssk. | As | Herb | Cultivated areas and wasteland | Very common |
| Convolvulaceae | *Ipomoea cairica* (L.) Sweet | P | Climber | Wasteland | Very common |
| Convolvulaceae | *Ipomoea indica* (Burm.) Merr. | T. Am | Climber | Wasteland and Roadsides | Restricted |
| Convolvulaceae | *Ipomoea nil* (L.) Roth | T. Am | Climber | Wasteland and cultivated areas | Common |
| Convolvulaceae | *Ipomoea purpurea* (L.) Roth | T. Am | Climber | Roadsides and wasteland | Restricted |
| Convolvulaceae | *Ipomoea triloba* L. | T. Am | Climber | Wasteland, Roadsides and cultivated areas | Common |
| Convolvulaceae | *Merremia tuberosa* (L.) Rendle | T. Am | Woody climber | Wasteland and coastal areas | Restricted |
| Crassulaceae | *Kalanchoe pinnata* (Lam.) Pers. | Af | Herb | Lowland forest margins | Common |
| Crassulaceae | *Kalanchoe tubiflora* (Harv.) Raym. -Hamet | Af | Herb | Urban areas and villages | Common |
| Elaeocarpaceae | *Muntingia calabura* L. | T. Am | Tree, 7 m | Wasteland | Rare |
| Euphorbiaceae | *Chamaesyce hirta* (L.) Millsp. | Am | Herb | Wasteland | Very common |
| Euphorbiaceae | *Chamaesyce hypericifolia* (L.) Millsp. | Am | Herb | Wasteland | Common |
| Euphorbiaceae | *Chamaesyce prostrata* (Aiton) Small | Am | Herb | Wasteland | Restricted |
| Euphorbiaceae | *Chamaesyce thymifolia* (L.) Millsp. | P | Herb | Wasteland | Very common |
| Euphorbiaceae | *Euphorbia heterophylla* L. | P | Subshrub | Wasteland | Restricted |
| Euphorbiaceae | *Euphorbia tirucalli* L. | T. Af | Shrub | Coastal areas | Restricted |
| Euphorbiaceae | *Jatropha curcas* L. | T. Am | Shrub | Coastal areas | Restricted |
| Euphorbiaceae | *Phyllanthus amarus* Schumach. & Thonn. | P | Herb | Wasteland | Very common |
| Euphorbiaceae | *Ricinus communis* L. | Af | Shrub | Wasteland | Restricted |
| Fabaceae | *Abrus precatorius* L. | P | Woody climber | Coastal shrubland | Common |
| Fabaceae | *Cajanus cajan* (L.) Millsp. | India | Shrub | Wasteland | Restricted |
| Fabaceae | *Crotalaria pallida* Aiton | P | Herb | Wasteland and villages | Common |
| Fabaceae | *Desmanthus virgatus* (L.) Willd. | T. Am | Herb | Wasteland | Restricted |
| Fabaceae | *Desmodium tortuosum* (Sw.) DC. | T. Am | Subshrub | Wasteland | Common |
| Fabaceae | *Indigofera suffruticosa* Mill. | P | Subshrub | Wasteland | Restricted |
| Fabaceae | *Lablab purpureus* (L.) Sweet | India | Climber | Cultivated areas | Restricted |
| Fabaceae | *Leucaena leucocephala* (Lam.) de Wit | T. Am | Tree | Wasteland | Common |
| Fabaceae | *Macroptilium atropurpureum* (DC.) Urb. | T. Am | Herb | Wasteland | Common |
| Fabaceae | *Macroptilium lathyroides* (L.) Urb. | T. Am | Herb | Wasteland | Common |
| Fabaceae | *Medicago sativa* L. | NE | Herb | Abandoned farmland | Restricted |
| Fabaceae | *Mimosa diplotricha* C. Wright ex Sauvalle | T. Am | Climber | Wasteland | Rare |
| Fabaceae | *Mimosa pigra* L. | T. Am | Shrub | Roadside Wasteland | Very rare |
| Fabaceae | *Mimosa pudica* L. | T. Am | Herb | Wasteland | Very common |
| Fabaceae | *Senna hirsuta* (L.) Irwin & Barneby | T. Am | Shrub | Near villages | Very rare |
| Fabaceae | *Senna occidentalis* (L.) Link | S. Am | Shrub | Wasteland, grassland and villages | Very common |
| Fabaceae | *Senna tora* (L.) Roxb. | P | Herb | Wasteland and villages | Common |
| Fabaceae | *Trifolium repens* L. | E | Herb | Grassland | Restricted |
| Fabaceae | *Vicia hirsuta* (L.) Gray | NE | Herb | | Very rare |
| Fabaceae | *Vicia sativa* L. | E | Herb | | Very rare |
| Geraniaceae | *Erodium cicutarium* (L.) L 'Hér. | NE | Herb | Wasteland | Very rare |
| Iridaceae | *Sisyrinchium rosulatum* E. P. Bicknell | Am | Herb | Grassland | Rare |
| Lamiaceae | *Hyptis rhomboidea* MarT. & Galeotti | T. Am | Herb | | Very rare |
| Lamiaceae | *Hyptis suaveolens* (L.) Poit. | T. Am | Herb | Wasteland and grassland | Restricted |
| Lamiaceae | *Ocimum basilicum* L. | As | Herb | Wasteland | Very rare |
| Lamiaceae | *Perilla frutescens* (L.) Britton | As | Herb | Villages | Restricted |
| Lauraceae | *Cinnamomum camphora* (L.) J. Presl | MC | Tree | Lowland forests and villages | Common |

**附录 （续）** Appendix （continued）

| 科 Family | 种名 Species | 来源地[1] Origin | 生活型 Growth form | 生境 Habitat | 数量[2] Local abundance |
|---|---|---|---|---|---|
| Limnocharitaceae | *Limnocharis flava* （L.） Buchenau | T. Am | Aquatic herb | | Very rare |
| Linaceae | *Linum striatum* Walter | T. Am | Herb | Grassland | Rare |
| Malvaceae | *Malvastrun coromendelinum* （L.） Garcke | P | Herb | Wasteland | Common |
| Malvaceae | *Sida acuta* Burm. | P | Subshrub | Wasteland | Common |
| Malvaceae | *Sida cordata* （Burm. f.） Borss. Waalk. | P | Subshrub | Wasteland and villages | Common |
| Malvaceae | *Sida rhombifolia* L. | P | Subshrub | Wasteland | Common |
| Malvaceae | *Urena lobata* L. | P | Subshrub | Wasteland and lowland forests | Common |
| Malvaceae | *Urena procumbens* L. | P | Subshrub | Wastaland and lowland forests | Common |
| Meliaceae | *Melia azedarach* L. | As | Tree | Villages | Common |
| Moraceae | *Broussonetia papyrifera* A. （L.） Vent. | MC | Tree | Wasteland | Very common |
| Moraceae | *Ficus religiosa* L. | As | Tree | Urban areas | Restricted |
| Moraceae | *Morus alba* L. | MC | Tree | Wasteland and near villages | Common |
| Myrtaceae | *Melaleuca quinquenervia* （Cav.） S. T. Blake | Australia | Tree | Shrubland | Rare |
| Myrtaceae | *Psidium guajava* L. | T. Am | Tree | Wasteland and abandoned cultivation | Common |
| Myrtaceae | *Syzygium jambos* （L.） Alston | As | Tree | Lowland forest | Common |
| Onagraceae | *Ludwigia octovalvis* （Jacq.） Raven | P | Herb | Wetlands | Common |
| Oxalidaceae | *Oxalis corniculata* L. | C | Herb | Wasteland and cultivated areas | Very common |
| Oxalidaceae | *Oxalis corymbosa* DC. | T. Am | Herb | Wasteland and cultivated areas | Common |
| Passifloraceae | *Passiflora foetida* L. | T. Am | Climber | Wasteland | Very common |
| Passifloraceae | *Passiflora suberosa* L. | T. Am | Climber | Wasteland | Common |
| Phytolaccaceae | *Phytolacca acinosa* Roxb. | As | Herb | Wasteland | Rare |
| Piperaceae | *Peperomia pellucida* （L.） Kunth | T. Am | Herb | Wet places | Common |
| Plantaginaceae | *Plantago lanceolata* L. | NE | Herb | Flower-bed | Very rare |
| Plantaginaceae | *Plantago major* L. | C | Herb | Wasteland | Very common |
| Polygonaceae | *Rumex crispus* L. | NE | Herb | Cultivated areas and streamsides | Restricted |
| Portulacaceae | *Portulaca oleracea* L. | C | Herb | Wasteland and cultivated areas | Very common |
| Portulacaceae | *Talinum paniculatum* （Jacq.） Gaertn. | T. Am | Herb | | Common |
| Primulaceae | *Anagallis arvensis* L. | NE | Herb | Wasteland | Very rare |
| Rubiaceae | *Borreria latifolia* （Aubl.）K. Schum. | Am | Herb | Wasteland | restricted |
| Rubiaceae | *Galium aparine* L. | NE | Herb | Wasteland | Rare |
| Rubiaceae | *Richardia brasiliensis* Gomes | T. Am | Herb | Grassland and wasteland | Common |
| Sapindaceae | *Cardiospermum halicacabum* L. | T. Am | Climber | Wasteland | Restricted |
| Sapindaceae | *Dimocarpus longan* Lour. | MC | Tree，10 m | Fengshui woods | Restricted |
| Sapindaceae | *Sapindus mukorossi* Gaertn. | MC | Tree，20 m | Near villages | Restricted |
| Scrophulariaceae | *Bacopa monnieri* （L.） Wettst. | P | Herb | Wetlands | Common |
| Scrophulariaceae | *Scoparia dulcis* L. | T. Am | Herb | Wasteland | Common |
| Scrophulariaceae | *Siphonostegia laeta* S. Moore | MC | Herb | Lowland forest margins | Rare |
| Scrophulariaceae | *Veronica persica* Poir. | Af | Herb | | Very rare |
| Scrophulariaceae | *Veronica undulata* Wall ex Jack. | As | Herb | Cultivated areas | Restricted |
| Solanaceae | *Datura metel* L. | T. Am | Herb | Villages | Common |
| Solanaceae | *Physalis angulata* L. | P | Herb | Wasteland and near villages | Restricted |
| Solanaceae | *Solanum americanum* Mill. | Am | Herb | Wasteland | Very common |
| Solanaceae | *Solanum capsicoides* All. | Am | Herb or subshrub | Near villages | Rare |
| Solanaceae | *Solanum erianthum* D. Don | T. Am | Shrub | Near villages | Common |
| Solanaceae | *Solanum torvum* Sw. | Am | Shrub | Wasteland and near villages | Common |
| Solanaceae | *Solanum wrightii* Benth. | T. Am | Shrub | | Very rare |
| Sonneratiaceae | *Sonneratia apetala* Buch. -Ham. | Bengl-adesh | Tree | Mangrove | Rare |
| Sterculiaceae | *Firmiana platanifolia* （L. f.） Marsili | MC | Tree，10 m | Forest and shrubland | Restricted |
| Sterculiaceae | *Waltheria indica* L. | P | Subshrub | Wasteland | Common |
| Thymelaeaceae | *Aquilaria sinensis* （Lour.） Gilg. | As | Tree | Forests | Common |

**附录 （续）** Appendix （continued）

| 科<br>Family | 种名<br>Species | 来源地[1]<br>Origin | 生活型<br>Growth form | 生境<br>Habitat | 数量[2]<br>Local abundance |
|---|---|---|---|---|---|
| Tiliaceae | *Triumfetta rhomboidea* Jacq. | P | Subshrub | Wasteland | Common |
| Urticaceae | *Pilea microphylla* （L.） Liebm. | T. Am | Herb | Villages and urban areas | Very common |
| Verbenaceae | *Clerodendrum japonicum* （Thunb.） Sweet | Asia | Shrub | Near villages | Common |
| Verbenaceae | *Lantana camara* L. | Am | Shrub | Wasteland | Very common |
| Verbenaceae | *Stachytarpheta jamaicensis* （L.） Vahl | Am | Herb | Wasteland | Common |
| Verbenaceae | *Verbena bonariensis* L. | S. Am | Herb | Wasteland | Restricted |
| Verbenaceae | *Verbena officinalis* L. | NE | Herb | Wasteland | Restricted |
| **Monocotyledons** | | | | | |
| Agavaceae | *Agave vivipara* L. | T. Am | Herb | Coastal areas | Restricted |
| Araceae | *Pistia stratiotes* L. | P | Floating herb | Cultivated areas | Common |
| Cyperaceae | *Bulbostylis barbata* （Rottb.） C. B. Clarke | P | Herb | Wasteland and sandy beaches | Restricted |
| Cyperaceae | *Cyperus compressus* L. | P | Herb | Wasteland | Very common |
| Cyperaceae | *Cyperus corymbosus* Rottb. | P | Herb | Abandoned cultivation | Restricted |
| Cyperaceae | *Cyperus cuspidatus* Kunth | Am | Herb | Wasteland | Restricted |
| Cyperaceae | *Cyperus difformis* L. | P | Herb | Cultivated areas and wetlands | Very common |
| Cyperaceae | *Cyperus distans* L. f. | P | Herb | Wasteland，Grassland and near villages | Common |
| Cyperaceae | *Cyperus esculentus* L. | C | Herb | Abandoned paddy fields | Restricted |
| Cyperaceae | *Cyperus haspan* L. | P | Herb | Wetland and cultivation | Common |
| Cyperaceae | *Cyperus imbricatus* Retz. | P | Herb | Wetlands，wasteland and cultivation | Common |
| Cyperaceae | *Cyperus involucratus* Rottb. | Af | Herb | Streamsides | Restricted |
| Cyperaceae | *Cyperus odoratus* L. | P | Herb | Wasteland and grassland | Restricted |
| Cyperaceae | *Cyperus rotundus* L. | C | Herb | Cultivated areas | Very common |
| Cyperaceae | *Eleocharis acicularis* （L.） R. Br. | C | Herb | Wetlands | Common |
| Cyperaceae | *Eleocharis acutangula* （Roxb.） Schult. | P | Herb | Wetlands | Restricted |
| Cyperaceae | *Eleocharis dulcis* （Burm. f.） Trin. ex Hensch. | As | Herb | Wetlands | Common |
| Cyperaceae | *Eleocharis geniculata* （L.） Roem. & Schult. | P | Herb | Open wet places | Restricted |
| Cyperaceae | *Eleocharis spiralis* （Rottb.） Roem. & Schult. | P | Herb | Abandoned paddy fields and coastal areas | Rare |
| Cyperaceae | *Fimbristylis miliacea* （L.） Vahl | P | Herb | Wetlands and cultivated areas | Very common |
| Cyperaceae | *Fimbristylis squarrosa* Vahl | P | Herb | Grassland and cultivation | Common |
| Cyperaceae | *Fuirena umbellata* Rottb. | P | Herb | Wetlands and abandoned cultivation | Common |
| Cyperaceae | *Kyllinga brevifolia* Rottb. | P | Herb | Grassland and cultivated areas | Common |
| Cyperaceae | *Kyllinga nemoralis* （J. R. & G. Forst.） Dandy ex Hutch. & Dalziel | P | Herb | Wasteland | Very common |
| Cyperaceae | *Kyllinga polyphylla* Willd. ex Kunth | T. Af | Herb | Wasteland and along paths | Common |
| Cyperaceae | *Pycreus polystachyos* （Rottb.） P. Beauv. | P | Herb | Cultivated areas，grassland and wasteland | Very common |
| Cyperaceae | *Rhynchospora corymbosa* （L.） Britton | P | Herb | Wetlands | Rare |
| Cyperaceae | *Schoenoplectus mucronatus* （L.） Palla | C | Herb | Wetlands and cultivated areas | Very rare |
| Poaceae | *Arundo donax* L. | Mediter-ranean | Herb | Streamsides | Very rare |
| Poaceae | *Axonopus compressus* （Sw.） P. Beauv. | T. Am | Herb | Villages and grassland | Common |
| Poaceae | *Axonopus fissifolius* （Raddi） Kuhlm. | T. Am | Herb | Roadside grassland | Common |
| Poaceae | *Bromus catharticus* Vahl | S. Am | Herb | | Very rare |
| Poaceae | *Cenchrus echinatus* L. | T. Am | Herb | Wasteland and cultivated areas | Common |
| Poaceae | *Chloris barbata* Sw. | T. Am | Herb | Wasteland and sandy shore | Very common |
| Poaceae | *Coix lacryma-jobi* L. | T. Am | Herb | Stream sides and cultivated areas | Common |
| Poaceae | *Cynodon dactylon* （L.） Pers. | P | Herb | Wasteland and Grassland | Very common |
| Poaceae | *Dactyloctenium aegyptium* （L.） P. Beauv. | P | Herb | Cultivated areas | Common |
| Poaceae | *Dichanthium annulatum* （Forssk.） Stapf | P | Herb | Wasteland and grassland | Restricted |
| Poaceae | *Digitaria ciliaris* （Retz.） Koeler | P | Herb | Wasteland | Very common |
| Poaceae | *Digitaria violascens* Link | P | Herb | Grassland，Roadsides and wasteland | Common |

**附录 （续）** Appendix （continued）

| 科<br>Family | 种名<br>Species | 来源地[1]<br>Origin | 生活型<br>Growth form | 生境<br>Habitat | 数量[2]<br>Local abundance |
|---|---|---|---|---|---|
| Poaceae | *Echinochloa colona* (L.) Link | P | Herb | Cultivated areas | Very common |
| Poaceae | *Echinochloa crusgalli* (L.) P. Beauv. | P | Herb | Wasteland | Common |
| Poaceae | *Eleusine indica* (L.) Gaertn. | P | Herb | Wasteland | Very common |
| Poaceae | *Eragrostis amabilis* (L.) Nees | P | Herb | Wasteland | Very common |
| Poaceae | *Eragrostis perennans* Keng | C | Herb | Grassland | Common |
| Poaceae | *Heteropogon contortus* (L.) P. Beauv. ex Roem. & Schult. | P | Herb | Grassland | Very common |
| Poaceae | *Leptochloa chinensis* (L.) Nees | P | Herb | Cultivated areas | Very common |
| Poaceae | *Leptochloa panicea* (Retz.) Ohwi | P | Herb | Cultivation | Common |
| Poaceae | *Melinis minutiflora* P. Beauv. | Af | Herb | Wasteland | Restricted |
| Poaceae | *Melinis repens* (Willd.) Zizka | Af | Herb | Wasteland and roadsides | Very common |
| Poaceae | *Oplismenus compositus* (L.) P. Beauv. | P | Herb | Wasteland and forest margins | Very common |
| Poaceae | *Panicum maximum* Jacq. | Af | Herb | Wasteland | Very common |
| Poaceae | *Panicum repens* L. | P | Herb | Coastal and cultivated areas | Very common |
| Poaceae | *Paspalum conjugatum* Berg | T. Am | Herb | Wasteland | Common |
| Poaceae | *Paspalum dilatatum* Poir. | T. Am | Herb | Roadsides | Common |
| Poaceae | *Paspalum distichum* L. | T. Am | Herb | Wasteland and roadsides | Common |
| Poaceae | *Paspalum scrobiculatum* L. var. *bispicatum* Hack. ex Merr. | P | Herb | Grassland and wasteland | Common |
| Poaceae | *Paspalum urvillei* Steud. | T. Am | Herb | Wasteland | Common |
| Poaceae | *Paspalum vaginatum* Sw. | P | Herb | Coastal areas | Common |
| Poaceae | *Pennisetum clandestinum* Hochst. ex Chiov. | Af | Herb | Grassland | Restricted |
| Poaceae | *Pennisetum polystachyon* (L.) Schult. | T. Am | Herb | Wasteland | Very common |
| Poaceae | *Pennisetum purpureum* Schum. | T. Af | Herb | Wasteland and near water | Very common |
| Poaceae | *Poa annua* L. | E | Herb | wet places | Very rare |
| Poaceae | *Sacciolepis indica* (L.) Chase | P | Herb | Cultivated areas and wetland | Very common |
| Poaceae | *Setaria pumila* (Poir.) Roem. & Schult. | Asia | Herb | Grassland | Very common |
| Poaceae | *Setaria viridis* (L.) P. Beauv. | E | Herb | Wasteland | Restricted |
| Poaceae | *Sorghum halepense* (L.) Pers. | Medite-rranean | Herb | | Rare |
| Poaceae | *Spartina alternifolia* Loisel. | N. Am | Herb | Coastal mudflat | Rare |
| Poaceae | *Sporobolus indicus* (L.) R. Br. var. major (Büse) Baaijens | P | Herb | Wasteland and grassland | Very common |
| Poaceae | *Sporobolus virginicus* (L.) Kunth | P | Herb | Seashores | Very common |
| Poaceae | *Urochloa mutica* (Forssk.) T. Q. Nguyen | P | Herb | Wet places in wasteland and cultivation | Common |
| Pontederiaceae | *Eichhornia crassipes* (Mart.) Solms | T. Am | Floating herb | Ponds in cultivated areas | Common |
| Typhaceae | *Typha angustifolia* L. | NE | Herb | Wetland | Rare |