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重点药用植物生产中的害虫种类

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摘要：中药材是我国传统医学发展的重要物质基础，其品质与安全直接关系到就医人群的身体健康。害虫是导致药用植物品质和产量下降的重要因素，明确重点中药材害虫的种类，对中药材的绿色生产至关重要。该文基于我国部分省份药用植物生产统计数据，结合“十三五”期间中药材产业的重点药用植物品种，梳理我国重点药用植物生产中的主要害虫种类；分析药用植物生产中害虫频发的原因，并对未来应解决的问题予以展望，以期为我国药用植物害虫防治提供借鉴与参考。

关键词：药用植物；中药材；虫害；植物保护

Insect pest species in the production of key medicinal plants

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Abstract: Chinese medicinal materials form the essential foundation for the development of traditional Chinese medicine, and their quality and safety are directly linked to public health. Insect pests are one of the main factors leading to reduced yield and diminished quality of medicinal plants. Identifying the key pest species that damage major medicinal materials is therefore crucial for ensuring sustainable and eco-friendly production. This paper, based on production statistics from several provinces in China and the major medicinal plant varieties emphasized during the “13th Five-Year Plan” period, reviews the main pest species affecting the production of these plants. It further analyzes the underlying causes of frequent pest outbreaks and discusses future challenges that need to be addressed, aiming to provide valuable references and guidance for pest management in the production of medicinal plants in China.

Key words: medicinal plant; Chinese medicinal material; insect pest; plant protection

中药是我国重要的文化遗产，是中药学和中医学发展的物质基础。我国中草药的使用历史悠久，古籍中关于植物类中药栽培的记载可以追溯到公元前600年，而据考证薏苡 *Coix lacryma-jobi* 的栽培历史至少有6 000~10 000年（郭巧生和王长林，2015）。我国中药资源种类丰富，2011—2022年开展的第四次全国中药资源普查共鉴定到18 817种中药材，包括15 321种植物类中药材、2 517种动物类中药材、826种菌物类中药材和153种矿物类中药材（黄璐琦等，2024）。在2020年版《中华人民共和国药典》（一部）收录的616种药材与饮片中，植物类中药材有535种（罗皓文等，2024）。与其他中药材相比，植物类中药材不仅种类多，且易于生产，人工种植产业化程度高，成分与功效研究更深入，并拥有更完善的品质控制体系（杨国力等，2015；张恬等，2023）。“十三五”期间，中药材种植面积呈快速增长趋势，2019年

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中药材全国种植面积约为498万 hm^2，2020年则达到了约588万 hm^2(万修福等，2022)。害虫是影响药用植物品质和产量的关键因素之一，本文在梳理中药材害虫种类的基础上，对中药材生产中害虫防控的现状及存在的问题进行分析，并对其未来发展进行展望，以期为中药材相关行业的生产者和研究者提供参考，助力中药材的精准高效防控，减少害虫对中药材产业造成的损失。

1 害虫对药用植物生产的影响

中药材种植和贮藏过程中会发生虫害，这严重影响中药材的产量和品质，害虫可为害70%以上的中药材，每年因害虫造成的损失超数十亿元(程茂高等，2016)。药用植物连作会导致种植区生物多样性降低，一些专食性和寡食性害虫数量增加、次要害虫上升为主要害虫的现象突出(陈元生，2007)。我国药用植物种类丰富，不同药用植物间害虫种类差异大，同种药材所处产区地理位置和环境不同也会导致害虫种类有所区别(刘武等，2023)。

由于不同种类的害虫口器结构不同，它们为害药用植物产生的症状也不尽相同。直翅目与鞘翅目害虫以及鳞翅目幼虫多为咀嚼式口器，通过直接取食植物组织造成机械损伤，或蛀食果实、枝干为害(张帅等，2016；叶淑琴，2022；朱斌和梁沛，2024)。半翅目害虫依靠刺吸式口器吸食植物汁液，造成植株卷曲或萎蔫(朱斌和梁沛，2024)。以常见地下害虫为例，金龟子幼虫蛴螬取食药用植物根部会留下平整切口，而地老虎幼虫于地表取食植株根茎结合部导致植株倒伏，蝼蛄为害部位呈乱麻状或丝状(张帅等，2016)。粉虱、蚜虫等具刺吸式口器的害虫为害时会伴随蜜露的分泌和病毒的传播(张艳静等，2020；赵菁等，2025)。在膜翅目害虫中，仅有部分叶蜂为害药用植物，其幼虫取食叶片至仅剩叶柄，成虫产卵造成伤口致嫩枝枯死(黄文源等，2020)。缨翅目害虫蓟马具锉吸式口器，取食植物汁液产生白色斑点，后转为水渍状黄斑(谢世勇和黄建成，2022)。中药材上等翅目害虫主要为白蚁，其常蛀食植物块根、块茎，导致药用植物萎蔫甚至干枯死亡(梁正杰等，2021；周茂嫦等，2024)。瘿蚊是双翅目的主要中药材害虫，其取食可刺激植物组织增生形成虫瘿(吴跃开等，2023)，而种蝇与实蝇会蛀食根茎或果实引起腐烂(彭丹等，2012；黄文源等，2020)。在蜱螨目害虫中，叶螨的取食可造成灰白色斑点，后扩大成片转为黄色或红色，严重时会结一层疏松丝网(郭胜涛，2018；蔡惠钿等，2020)；瘿螨为害部位会出现无色透明的小绒毛，后变为深褐色(李培忠·乌日格木等，2024)。部分种植户由于缺乏植保知识，无法识别田间害虫，从而难以采取针对性的防控措施，发现害虫时只会盲目用药，这不仅导致药用植物农药残留超标，品质下降，还加剧了害虫的抗药性，进一步增加了防治难度(刘武等，2023)。

2 重点药用植物主要害虫种类

对中药材害虫种类的调查统计可以为害虫防治提供参考，而目前国内学者多针对某种中药材或某些地区的害虫进行研究(李长安和郭文菊，1987；刘爱萍等，2007)，鲜少有对重点中药材害虫的系统总结。本文基于甘肃(马晓辉等，2024)、江苏(严辉等，2023)、河南(陈琳等，2023)、江西(陈超等，2023)、山西(王俊斌等，2023)、辽宁(尹海波等，2023)、四川(方清茂等，2023)、浙江(何伯伟等，2023)、贵州(袁青松等，2023)、黑龙江(谭龙等，2023)和新疆维吾尔族自治区(张际昭等，2023)共11个省区2021年中药材生产统计数据，以种植面积、年产量或年产值位于各省前10位为筛选条件，并结合“十三五”期间的重点中药品种(何玉涵等，2021)，最终选择党参 *Codonopsis pilosula*、黄芪 *Astragalus membranaceus*、连翘 *Forsythia suspensa*、人参 *Panax ginseng* 和厚朴 *Magnolia officinalis* 等重点植物类中药材作为调查对象，梳理了各类药材上发生的主要害虫种类(表1)。

表1 重点药用植物主要害虫种类

Table 1 Major insect pest species of key medicinal plants

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
黄芩 *Scutellaria baicalensis*	棉铃虫、苜蓿夜蛾、黄芩前舞蛾、斑须蝽、苹斑芫菁、黄翅菜叶蜂 *Helicoverpa armigera*, *Heliothis viriplaca*, *Prochoreutis scutellariae*, *Dolycoris baccarum*, *Mylabris calida*, *Athalia rosae ruficornis*	孙艳梅等，2022；杨甲忠等，2022 Sun et al., 2022; Yang et al., 2022
黄连 *Coptis chinensis*	东方黏虫、警纹地老虎、黄地老虎、大地老虎、白边地老虎、黄连木尺蛾、铜绿丽金龟 *Mythimna separata*, *Agrotis exclamationis*, *Agrotis segetum*, *Agrotis tokionis*, *Euxoa karschi*, *Culcula panterinaria*, *Anomala corpulenta*	付利娟，2013；张帅等，2016 Fu, 2013; Zhang et al., 2016

续表 1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
柴胡 *Bupleuri radix*	金凤蝶、法氏柴胡宽蛾、小菜蛾、尖双突野螟、伞双突野螟、亚洲玉米螟、甘蓝夜蛾、斜纹夜蛾、甘薯绮夜蛾、黄地老虎、东方黏虫、甜菜夜蛾、棉铃虫、二点委夜蛾、棉小造桥虫、银纹夜蛾、菜粉蝶、小灰蝶、赤条蝽、菜蝽、斑须蝽、小长蝽、胡萝卜微管蚜、柴胡明蚜、绿盲蝽、苜蓿盲蝽、三点盲蝽、异须盲蝽、中黑盲蝽、赤须盲蝽、白背飞虱、灰飞虱、大斑芫菁、苹毛丽金龟、东方绢金龟、华北大黑鳃金龟、四纹丽金龟、小阔胫绢金龟、茄二十八星瓢虫、杨蓝叶甲、榆黄毛萤叶甲、褐纹金针虫、沟金针虫、棉尖象、烟草甲、药材甲、白腹皮蠹、黑皮蠹、大痣小蜂、中华剑角蝗、短额负蝗、东亚飞蝗、大扁头蟋、北京油葫芦、日本蚤蝼、草螽、东方蝼蛄、迟眼蕈蚊、橘小实蝇、高粱瘿蚊、稻秆蝇、美洲斑潜蝇、豆秆黑潜蝇、朱砂叶螨、日本蠼螋 *Papilio machaon*, *Depressaria falkovitchi*, *Plutella xylostella*, *Sitochroa verticalis*, *Stiochroa palealis*, *Ostrinia furnacalis*, *Mamestra brassicae*, *Spodoptera litura*, *Erastria trabealis*, *Agrotis segetum*, *Mythimna separata*, *Spodoptera exigua*, *Helicoverpa armigera*, *Athetis lepigone*, *Anomis flava*, *Argyrogramma agnata*, *Pieris rapae*, *Theclinesthes* sp., *Graphosoma rubrolineatum*, *Eurydema dominulus*, *Dolycoris baccarum*, *Nysius ericae*, *Semiaphis heraclei*, *Hyadaphis bupleuri*, *Apolygus lucorum*, *Adelphocoris lineolatus*, *Adelphocoris fasciaticollis*, *Campylomma diversicornis*, *Adelphocoris suturalis*, *Trigonotylus ruficonis*, *Sogatella furcifera*, *Laodelphax striatellus*, *Mylabris phalerata*, *Proagopertha lucidula*, *Serica orientalis*, *Holotrichia oblita*, *Popillia quadriguttata*, *Maladera ovatula*, *Henosepliachna vigintioctopunctata*, *Agelastica alni*, *Pyrrhalta maculicollis*, *Melanotus caudex*, *Pleonomus canaliculatus*, *Phytoscaphus gossypii*, *Lasioderma serricorne*, *Stegobium paniceum*, *Dermestes maculatus*, *Attagenus unicolor*, *Megastigmus* sp., *Acrida cinerea*, *Atractomorpha sinensis*, *Locusta migratoria manilensis*, *Loxoblemmus doenitzi*, *Teleogryllus mitratus*, *Tridactylus japonicus*, *Conocephalus* sp., *Gryllotalpa orientalis*, *Bradysia* sp., *Bactrocera dorsalis*, *Contarinia sorghicola*, *Chlorops oryzae*, *Liriomyza sativae*, *Melanagromyza sojae*, *Tetranychus cinnabarinus*, *Labidura japonica*	关群, 1982; 江镇涛等, 1982; 贺献林等, 2015; 白雪纯等, 2017; 史全龙, 2017; 王晓琪, 2021; 孙星等, 2023 Guan, 1982; Jiang et al., 1982; He et al., 2015; Bai et al., 2017; Shi, 2017; Wang, 2021; Sun et al., 2023
黄芪 *Astragalus membranaceus*	多刺鞘蛾、大豆食心虫、棉双斜卷蛾、苇实夜蛾、棉铃虫、乌夜蛾、刺槐袋蛾、斑缘豆粉蝶、红珠灰蝶、印度谷螟、地中海粉螟、一点谷螟、麦蛾、豆蚜、豌豆蚜、斑须蝽、宽碧蝽、全蝽、横纹菜蝽、牧草盲蝽、中黑盲蝽、黑长缘蝽、黄伊缘蝽、开环缘蝽、大青叶蝉、西伯利亚脊角蝉、黄芪根瘤象、中华豆芫菁、黑绒金龟、多色异丽金龟、苍翅藜丽金龟、铜绿丽金龟、暗黑鳃金龟、华北大黑鳃金龟、黄斑长跗萤叶甲、棕翅粗角跳甲、梨光叶甲、斑鞘豆叶甲、烟草甲、药材甲、咖啡豆象、棕须天牛、家茸天牛、裸蛛甲、脊胸露尾甲、东方蝼蛄、华北蝼蛄、肥螋螋、尘虱 *Coleophora plurispinella*, *Leguminivora glycinivorella*, *Clepsis pallidana*, *Heliothis maritima*, *Helicoverpa armigera*, *Melanchra persicariae*, *Acanthopsyche nigraplaga*, *Colias erate*, *Lycaeides argyrognomon*, *Plodia interpunctella*, *Ephestia kuehniella*, *Aphomia gularis*, *Sitotroga cerealella*, *Aphis craccivora*, *Acyrthosiphon pisum*, *Dolycoris baccarum*, *Palomena viridissima*, *Homalogonia obtusa*, *Eurydema gebleri*, *Lygus pratensis*, *Adelphocoris suturalis*, *Megalotomus junceus*, *Rhopalus maculatus*, *Stictopleurus minutus*, *Cicadella viridis*, *Machaerotypus sibiricus*, *Sitona simillimus*, *Epicauta chinensis*, *Maladera orientalis*, *Anomala chaemeleon*, *Blitopertha pallidipennis*, *Anomala corpulenta*, *Holotrichia parallela*, *Holotrichia oblita*, *Monolepta signata*, *Phygasia fulvipennis*, *Smaragdina semiaurantiaca*, *Colposcelis signata*, *Lasioderma serricorne*, *Stegobium paniceum*, *Araecerus fasciculatus*, *Oberea reductesignata*, *Trichoferus campestris*, *Gibbium psylloides*, *Carpophilus dimidians*, *Gryllotalpa orientalis*, *Gryllotalpa unispina*, *Anisolabis* sp., *Trogium pulsatorium*	关群, 1982; 江镇涛等, 1982; 李长安和郭文菊, 1987; 王宗信等, 1988; 张帅等, 2016; 孙艳梅等, 2021; 2022; 张大为等, 2022 Guan, 1982; Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016; Sun et al., 2021; 2022; Zhang et al., 2022
桔梗 *Platycodon grandiflorum*	小地老虎、黄地老虎、印度谷螟、地中海粉螟、红花指管蚜、桃蚜、菜蚜、葱蚜、沟金针虫、烟草甲、米象、红颈小薪甲、缩颈薪甲、毛蕈甲、波纹小蕈甲、暗褐郭公虫、钩纹皮蠹、隆胸露尾甲、米扁虫 *Agrotis ipsilon*, *Agrotis segetum*, *Plodia interpunctella*, *Ephestia kuehniella*, *Uroleucon gobonis*, *Myzus persicae*, *Lipaphis erysimi*, *Neotoxoptera formosana*, *Pleonomus canaliculatus*, *Lasioderma serricorne*, *Sitophilus oryzae*, *Dienerella ruficollis*, *Coninomus constricta*, *Typhaea stercorea*, *Mycetophagus antennatus*, *Thaneroclerus buquet*, *Dermestes ater*, *Carpophilus obsoletus*, *Ahasverus advena*	关群, 1982; 江镇涛等, 1982; 古金房和林若文, 1986; 王宗信等, 1988; 张帅等, 2016; 颜继红, 2017 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Wang et al., 1988; Zhang et al., 2016; Yan, 2017
栝楼 *Trichosanthes kirilowii*	印度谷螟、瓜绢野螟、地中海粉螟、一点谷螟、斜纹夜蛾、黄守瓜、药材甲、米象、咖啡豆象、蚕豆象、黑皮蠹、小圆皮蠹、赤毛皮蠹、大谷盗、酱曲露尾甲、脊胸露尾甲、干果露尾甲、瓜实蝇、毛衣鱼 *Plodia interpunctella*, *Diaphania indica*, *Ephestia kuehniella*, *Aphomia gularis*, *Spodoptera litura*, *Aulacophora indica*, *Stegobium paniceum*, *Sitophilus oryzae*, *Araecerus fasciculatus*, *Bruchus rufimanus*, *Attagenus unicolor*, *Anthrenus verbasci*, *Dermesters tessellatocollis*, *Tenebroides mauritanicus*, *Carpophilus hemipterus*, *Carpophilus dimidians*, *Carpophilus mutilatus*, *Bactrocera cucurbitae*, *Ctenolepisma villosa*	关群, 1982; 江镇涛等, 1982; 古金房和林若文, 1986; 李长安和郭文菊, 1987; 王宗信等, 1988; 马满驰等, 2015; 郑琪等, 2017; 程云霞等, 2023 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Ma et al., 2015; Zheng et al., 2017; Cheng et al., 2023
重楼 *Paris polyphylla*	中华萝藦肖叶甲、姬粉盗、黑缘条大叶蝉、湖北条大叶蝉、菜蝽、褐伊缘蝽 *Chrysochus chinensis*, *Palorus ratzeburgi*, *Atkinsoniella heiyuana*, *Atkinsoniella hupehna*, *Eurydema dominulus*, *Rhopalus sapporensis*	王宗信等, 1988; 龙婷婷, 2024 Wang et al., 1988; Long, 2024

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
党参 *Codonopsis pilosula*	印度谷螟、地中海粉螟、紫斑谷螟、一点谷螟、米织蛾、缩颈薪甲、湿薪甲、毛蕈甲、米扁虫、暗褐郭公虫、烟草甲、药材甲、大理窃蠹、赤拟谷盗、黑菌虫、姬粉盗、大谷盗、长角扁谷盗、锈赤扁谷盗、土耳其扁谷盗、裸蛛甲、家茸天牛、脊胸露尾甲、米象、咖啡豆象、蚕豆象、绿豆象、白腹皮蠹、肥螋螋、毛衣鱼 *Plodia interpunctella*, *Ephestia kuehniella*, *Pyralis farinalis*, *Aphomia gularis*, *Anchonoma xeraula*, *Coninomus constricta*, *Latridius minutus*, *Typhaea stercorea*, *Ahasverus advena*, *Thaneroclerus buquet*, *Lasioderma serricorne*, *Stegobium paniceum*, *Ptilineurus marmoratus*, *Tribolium castaneum*, *Alphitobius diaperinus*, *Palorus ratzeburgi*, *Tenebroides mauritanicus*, *Cryptolestes pusillus*, *Cryptolestes ferrugineus*, *Cryptolestes turcicus*, *Gibbium psylloides*, *Trichoferus campestris*, *Carpophilus dimidians*, *Sitophilus oryzae*, *Araecerus fasciculatus*, *Bruchus rufimanus*, *Callosobruchus chinensis*, *Dermestes maculatus*, *Anisolabis* sp., *Ctenolepisma villosa*	关群，1982；江镇涛等，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988；程云霞等，2023 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Cheng et al., 2023
丹参 *Salvia miltiorrhiza*	银纹夜蛾、斜纹夜蛾、棉铃虫、梨剑纹夜蛾、小地老虎、黄地老虎、紫苏野螟、大造桥虫、金毛虫、沟金针虫、细胸金针虫、薄荷金叶甲、琉璃弧丽金龟、大云斑鳃金龟、暗黑鳃金龟、小青花金龟、白星花金龟、铜绿丽金龟、华北大黑鳃金龟、大灰象甲、华北蝼蛄、东方蝼蛄、短额负蝗、台湾树蟋、微小跳盲蝽、绿盲蝽、小长蝽、稻棘缘蝽、斑须蝽、麻皮蝽、茶翅蝽、烟粉虱、棉蚜、蟹形拟蝎 *Argyrogramma agnata*, *Spodoptera litura*, *Helicoverpa armigera*, *Acronicta rumicis*, *Agrotis ipsilon*, *Agrotis segetum*, *Pyrausta phoenicealis*, *Ascotis selenaria*, *Porthesia similis*, *Pleonomus canaliculatus*, *Agriotes subvittatus*, *Chrysolina exanthematica*, *Popillia flavosellata*, *Polyphylla laticollis*, *Holotrichia parallela*, *Gametis jucunda*, *Potosia brevitarsis*, *Anomala corpulenta*, *Holotrichia oblita*, *Sympiezomias velatus*, *Gryllotalpa unispina*, *Gryllotalpa orientalis*, *Atractomorpha sinensis*, *Oecanthus indicus*, *Halticus minutus*, *Apolygus lucorum*, *Nysius ericae*, *Cletus punctiger*, *Dolycoris baccarum*, *Erthesina fullo*, *Halyomorpha halys*, *Bemisia tabaci*, *Aphis gossypii*, *Chelifer cancroides*	关群，1982；王宗信等，1988；张帅等，2016；李少华，2018；赵杰等，2020；李洪浩等，2022；李少华等，2022a，b；袁克伍等，2024 Guan, 1982; Wang et al., 1988; Zhang et al., 2016; Li, 2018; Zhao et al., 2020; Li et al., 2022; Li et al., 2022a, b; Yuan et al., 2024
天麻 *Gastrodia elata*	天麻白粉蚧、圆腹无缝拟蝎、米扁虫、米象、陷缝异丽金龟、蓝边矛丽金龟、霜霉索鳃金龟、暗黑鳃金龟、华北大黑鳃金龟、铜绿丽金龟 *Paraputo gastrodiae*, *Chelifer* sp., *Ahasverus advena*, *Sitophilus oryzae*, *Anomala rufiventris*, *Callistethus plagiicollis*, *Sophrops peronosporus*, *Holotrichia parallela*, *Holotrichia oblita*, *Anomala corpulenta*	古金房和林若文，1986；王宗信等，1988；赵祖芸，2018；李万万等，2023；龙婷婷，2024；周茂嫦等，2024 Gu & Lin, 1986; Wang et al., 1988; Zhao, 2018; Li et al., 2023; Long, 2024; Zhou et al., 2024
金银花 *Lonicera japonica*	忍冬细蛾、棉铃虫、甜菜夜蛾、梨剑纹夜蛾、银纹夜蛾、草地贪夜蛾、粉斑螟、麦蛾、红天蛾、后黄黑边天蛾、人纹污灯蛾、印度谷螟、紫斑谷螟、品缟螟、四点谷蛾、黄连木尺蛾、金银花尺蠖、耸埃尺蛾、大蓑蛾、中华粉蠹、褐粉蠹、花斑皮蠹、烟草甲、药材甲、大灰象甲、米象、福婆鳃金龟、蒙异丽金龟、大绿异丽金龟、栗色齿爪鳃金龟、灰胸突鳃金龟、暗黑鳃金龟、华北大黑鳃金龟、东方绢金龟、铜绿丽金龟、锯谷盗、米扁虫、赤拟谷盗、长头谷盗、阔角谷盗、扁薪甲、褐隐蕈甲、谷蠹、日本蛛甲、裸蛛甲、中华忍冬圆尾蚜、胡萝卜微管蚜、棉蚜、桃蚜、稻棘缘蝽、二星蝽、斑须蝽、珀蝽、茶翅蝽、小长蝽、白斑地长蝽、烟粉虱、大青叶蝉、小绿叶蝉、菱纹叶蝉、锤胁跷蝽、微小跳盲蝽、斑衣腊蝉、杜鹃三节叶峰、卫矛矢尖盾蚧、中华剑角蝗、短额负蝗、台湾树蟋、腐食酪螨、粗足粉螨、酪阳历螨、美洲大蠊、澳洲大蠊、德国小蠊 *Phyllonorycter lonicerae*, *Helicoverpa armigera*, *Spodoptera exigua*, *Acronicta rumicis*, *Argyrogramma agnata*, *Spodoptera frugiperda*, *Ephestia cautella*, *Sitotroga cerealella*, *Deilephila elpenor*, *Haemorrhagia radians*, *Spilarctia subcarnea*, *Plodia interpunctella*, *Pyralis farinalis*, *Aglossa pinguinalis*, *Tinea tugurialis*, *Culcula panterinaria*, *Heterolocha jinyinhuaphaga*, *Ectropis excellens*, *Clania variegata*, *Lyctus sinensis*, *Lyctoxylon brunneus*, *Trogoderma variabile*, *Lasioderma serricorne*, *Stegobium paniceum*, *Sympiezomias velatus*, *Sitophilus oryzae*, *Brahmina faldermanni*, *Anomala mongolica*, *Anomala virens*, *Holotrichia castanea*, *Hoplosternus incanus*, *Holotrichia parallela*, *Holotrichia oblita*, *Serica orientalis*, *Anomala corpulenta*, *Oryzaephilus surinamensis*, *Ahasverus advena*, *Tribolium castaneum*, *Latheticus oryzae*, *Gnathocerus cornutus*, *Holoparamecus depressus*, *Cryptophilus integer*, *Rhyzopertha dominica*, *Ptinus japonicus*, *Gibbium psylloides*, *Amphicercidus sinilonicericola*, *Semiaphis heraclei*, *Aphis gossypii*, *Myzus persicae*, *Cletus punctiger*, *Eysarcoris guttigerus*, *Dolycoris baccarum*, *Plautia fimbriata*, *Halyomorpha halys*, *Nysius ericae*, *Rhyparochromus albomaculatus*, *Bemisia tabaci*, *Cicadella viridis*, *Empoasca flavescens*, *Hishmonus sellatus*, *Yemma signatus*, *Halticus minutus*, *Lycorma delicatula*, *Arge similis*, *Unaspis euonymi*, *Acrida cinerea*, *Atractomorpha sinensis*, *Oecanthus indicus*, *Tyrophagus putrescentiae*, *Acarus siro*, *Androlaelaps casalis*, *Periplaneta americana*, *Periplaneta australasiae*, *Blattella germanica*	关群，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988；向玉勇等，2015；李玉奎等，2017；李少华，2018；颜东昇，2018；翟爱勇和周凌云，2018；张绪萍，2021；冯法动，2022；李少华等，2022b，c；周亚媛，2022；程云霞等，2023；李霞等，2023；陈鹏博等，2024；刘星宇和李万，2024；龙婷婷，2024；彭昱绮，2024 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Xiang et al., 2015; Li et al., 2017; Li, 2018; Yan, 2018; Zhai & Zhou, 2018; Zhang, 2021; Feng, 2022; Li et al., 2022b, c; Zhou, 2022; Cheng et al., 2023; Li et al., 2023; Chen et al., 2024; Liu & Li, 2024; Long, 2024; Peng, 2024
连翘 *Forsythia suspensa*	蚜虫、四行薪甲、丝薪甲 *Aphis* sp., *Lathridius bergrothi*, *Cartodere filiformis*	江镇涛等，1982；王宗信等，1988；郭俊帅，2024 Jiang et al., 1982; Wang et al., 1988; Guo, 2024

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
板蓝根 *Radix isatidis*	小菜蛾、菜粉蝶、银纹夜蛾、甘蓝夜蛾、甜菜夜蛾、斜纹夜蛾、桃蚜、菜蚜、灰飞虱、菜蝽、斑须蝽、赤须盲蝽、绿盲蝽、条蜂缘蝽、药材甲、赤足郭公虫、长跗叶甲、黄曲条跳甲、黄守瓜、异角胸斑蝗、短额负蝗、油葫芦、日本蚤蝼 *Plutella xylostella*, *Pieris rapae*, *Argyrogramma agnata*, *Mamestra brassicae*, *Spodoptera exigua*, *Spodoptera litura*, *Myzus persicae*, *Lipaphis erysimi*, *Laodelphax striatellus*, *Eurydema dominulus*, *Dolycoris baccarum*, *Trigonotylus ruficonis*, *Apolygus lucorum*, *Riptortus linearis*, *Stegobium paniceum*, *Necrobia rufipes*, *Monolepta* sp., *Phyllotreta vittata*, *Aulacophora indica*, *Apalacris varicornis*, *Atractomorpha sinensis*, *Gryllulus testaceus*, *Tridactylus japonicus*	关群, 1982; 江镇涛等, 1982; 王国昌和梁海燕, 2018; 孙艳梅等, 2022; 赵瑞生和孟繁龙, 2023; 龙婷婷, 2024 Guan, 1982; Jiang et al., 1982; Wang & Liang, 2018; Sun et al., 2022; Zhao & Meng, 2023; Long, 2024
甘草 *Glycyrrhizae radix*	棉铃虫、地中海粉螟、紫斑谷螟、印度谷螟、大造桥虫、米扁虫、甘草萤叶甲、榆蓝叶甲、黄斑叶甲、黄褐丽金龟、黑皱鳃金龟、烟草甲、大理窃蠹、线粉蠹、家茸天牛、棕须天牛、灭字脊虎天牛、四星栗天牛、红颈小薪甲、土耳其扁谷盗、甘草豆象、短毛草象、金针虫、仓潜、大青叶蝉、榆叶蝉、小绿叶蝉、甘草黑蚜、桃蚜、牧草盲蝽、三点盲蝽、苜蓿盲蝽、绿盲蝽、甘草胭珠蚧、宁夏胭珠蚧、美洲斑潜蝇、短额负蝗 *Helicoverpa armigera*, *Ephestia kuehniella*, *Pyralis farinalis*, *Plodia interpunctella*, *Ascotis selenaria*, *Ahasverus advena*, *Diorhabda tarsalis*, *Pyrrhalta aenescens*, *Paropsides chennelli*, *Anomala exoleta*, *Trematodes tenebrioides*, *Lasioderma serricorne*, *Ptilineurus marmoratus*, *Lyctus linearis*, *Trichoferus campestris*, *Oberea reductesignata*, *Xylotrechus quadripes*, *Stenygrinum quadrinotatum*, *Dienerella ruficollis*, *Cryptolestes turcicus*, *Bruchidius ptilinoides*, *Chloebius psittacinus*, *Elateridae leach*, *Mesomorphus villiger*, *Cicadella viridis*, *Empoasca bipunctata*, *Empoasca flavescens*, *Aphis atrata*, *Myzus persicae*, *Lygus pratensis*, *Adelphocoris fasciaticollis*, *Adelphocoris lineolatus*, *Apolygus lucorum*, *Porphyrohora sophorae*, *Porphyrophora ningxiana*, *Liriomyza sativae*, *Atractomorpha sinensis*	关群, 1982; 江镇涛等, 1982; 李长安和郭文菊, 1987; 王宗信等, 1988; 李金霞等, 2015; 张帅等, 2016; 李建军等, 2018 Guan, 1982; Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Li et al., 2015; Zhang et al., 2016; Li et al., 2018
肉苁蓉 *Cistanche deserticola*	印度谷螟、地中海粉螟、一点谷螟、六斑平颜蚜蝇 *Plodia interpunctella*, *Ephestia kuehniella*, *Aphomia gularis*, *Eumerus seximaculatus*	关群, 1982; 王宗信等, 1988; 李彦如, 2023 Guan, 1982; Wang et al., 1988; Li, 2023
牡丹 *Paeonia suffruticosa*	黄缘绿刺蛾、扁刺蛾、桑褐刺蛾、银杏大蚕蛾、亚洲玉米螟、棉铃虫、菊姬长管蚜、粉蚧、吹绵蚧、长白盾蚧、小云鳃金龟、大栗鳃金龟、华北大黑鳃金龟、暗黑鳃金龟、铜绿丽金龟、苹毛丽金龟、黑绒金龟、沟金针虫、细胸金针虫、华北蝼蛄 *Latoia consocia*, *Thosea sinensts*, *Setora postornata*, *Dictyoploca japonica*, *Ostrinia furnacalis*, *Helicoverpa armigera*, *Macrosiphoniella sanborni*, *Pianococcus* sp., *Icerya purchasi*, *Leucaspis japonica*, *Polyphylla gracilicornis*, *Melolontha hippocastani*, *Holotrichia oblita*, *Holotrichia parallela*, *Anomala corpulenta*, *Proagopertha lucidula*, *Maladera orientalis*, *Pleonomus canaliculatus*, *Agriotes subvittatus*, *Gryllotalpa unispina*	费伟英等, 2016; 张帅等, 2016; 肖纬坤, 2017; 颜东昇, 2018; 马艳芳等, 2022; 孙艳梅等, 2022; 王泽宾等, 2022 Fei et al., 2016; Zhang et al., 2016; Xiao, 2017; Yan, 2018; Ma et al., 2022; Sun et al., 2022; Wang et al., 2022
苍术 *Rhizoma atractylodis*	咖啡豆象、毛鞘小眼薪甲、烟草甲、药材甲 *Araecerus fasciculatus*, *Metophthalmus hisidus*, *Lasioderma serricorne*, *Stegobium paniceum*	关群, 1982; 王宗信等, 1988 Guan, 1982; Wang et al., 1988
枸杞 *Lycium barbarum*	枸杞蛀果蛾、枸杞伊麦蛾、刺沟须麦蛾、类古毒蛾、枸杞绢蛾、印度谷螟、地中海粉螟、一点谷螟、锯谷盗、毛蕈甲、青带郭公虫、戈壁琵甲、达氏琵甲、枸杞负泥虫、双斑萤叶甲、里叶甲、间断萤叶甲、枸杞龟甲、红缘天牛、大绿叶甲、银灰毛足象、甜菜象甲、药材甲、日本蛛甲、火腿皮蠹、花斑皮蠹、黑皮蠹、白腹皮蠹、咖啡豆象、大谷盗、大青叶蝉、茶翅蝽、异色蝽、新疆菜蝽、牧草盲蝽、戈壁宽头盲蝽、棉蚜、桃蚜、豆蚜、马铃薯长管蚜、枸杞线角木虱、枸杞红瘿蚊、枸杞白瘿蚊、枸杞实蝇、潜叶蝇、拟华氏瘤瘿螨、拟大瘤瘿螨、白枸杞瘤瘿螨、枸杞刺皮瘿螨、华北蝼蛄、毛衣鱼 *Phthorimaea* sp., *Ilseopsis erichi*, *Scrobipalpa erichiodes*, *Teia ericae*, *Scythris buszkoi*, *Plodia interpunctella*, *Ephestia kuehniella*, *Aphomia gularis*, *Oryzaephilus surinamensis*, *Typhaea stercorea*, *Trichodes sinae*, *Blaps gobiensis*, *Blaps davidis*, *Lema decempunctata*, *Monolepta hieroglyphica*, *Linaeidea* sp., *Galeruca interrupta*, *Cassida deltoids*, *Asias halodendri*, *Chrysochares asiaticus*, *Phacephorus argyrostomus*, *Bothynoderes* sp., *Stegobium paniceum*, *Ptinus japonicus*, *Dermestes lardarius*, *Trogoderma variabile*, *Attagenus unicolor*, *Dermestes maculatus*, *Araecerus fasciculatus*, *Tenebroides mauritanicus*, *Cicadella viridis*, *Halyomorpha halys*, *Carpocoris pudicus*, *Eurydema maracandica*, *Lygus pratensis*, *Sthenaropsis gobicus*, *Aphis gossypii*, *Myzus persicae*, *Aphis craccivora*, *Macrosiphum euphorbiae*, *Bactericera gobica*, *Gephyraulus lycantha*, *Contarinia* sp., *Neoceratitis asiatica*, *Phytomyza* sp., *Aceria parawagnoni*, *Aceria paramacrodonis*, *Aceria pallida*, *Aculops lycii*, *Gryllotalpa unispina*, *Ctenolepisma villosa*	关群, 1982; 江镇涛等, 1982; 古金房和林若文, 1986; 李长安和郭文菊, 1987; 谢玉峰等, 2017; 2018; 严林等, 2017; 张旭等, 2017; 颜东昇, 2018; 苏虹, 2019; 何嘉等, 2020; 刘畅等, 2022; 宋国平, 2023; 袁雪琴等, 2023; 高琼琼等, 2024; 刘晓丽和李锋, 2024; 张蓉, 2024 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Li & Guo, 1987; Xie et al., 2017; 2018; Yan et al., 2017; Zhang et al., 2017; Yan, 2018; Su, 2019; He et al., 2020; Liu et al., 2022; Song, 2023; Yuan et al., 2023; Gao et al., 2024; Liu & Li, 2024; Zhang, 2024
穿心莲 *Andrographis paniculata*	棉铃虫、小地老虎 *Helicoverpa armigera*, *Agrotis ipsilon*	张帅等, 2016 Zhang et al., 2016
太子参 *Pseudostellariae radix*	黄盾脊额叶蝉、稻棘缘蝽、咖啡豆象 *Carinata flaviscutata*, *Cletus punctiger*, *Araecerus fasciculatus*	古金房和林若文, 1986; 王宗信等, 1988; 龙婷婷, 2024 Gu & Lin, 1986; Wang et al., 1988; Long, 2024

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
菊花 *Chrysanthemum morifolium*	棉铃虫、银纹夜蛾、斜纹夜蛾、霉巾夜蛾、鼎点金刚钻、大地老虎、小地老虎、星白雪灯蛾、人纹污灯蛾、粉斑螟、地中海粉螟、印度谷螟、大造桥虫、广鹿蛾、菊小筒天牛、大灰象甲、暗黑鳃金龟、东方绢金龟、华北大黑鳃金龟、铜绿丽金龟、赤拟谷盗、杂拟谷盗、褐足角胸叶甲、烟草甲、药材甲、花斑皮蠹、谷蠹、桃蚜、菊姬长管蚜、棉蚜、温室白粉虱、褐软蜡蚧、吹绵蚧、康氏粉蚧、斑衣腊蝉、八点广翅蜡蝉、大青叶蝉、小绿叶蝉、绿环缘蝽、稻棘缘蝽、小长蝽、绿盲蝽、斑须蝽、黄胸蓟马、花蓟马、黄蓟马、菊简管蓟马、菊潜叶蝇、豌豆潜叶蝇、菊瘿蚊、中华剑角蝗、台湾树蟋、短额负蝗、朱砂叶螨、神泽氏叶螨、花蛤沙蛛、温室球腹蛛、尘虱、书虱、蛞蝓 *Helicoverpa armigera*, *Argyrogramma agnata*, *Spodoptera litura*, *Dysgonia maturate*, *Earias cupreoviridis*, *Agrotis tokionis*, *Agrotis ipsilon*, *Spilosoma menthastri*, *Spilarctia subcarnea*, *Ephestia cautella*, *Ephestia kuehniella*, *Plodia interpunctella*, *Ascotis selenaria*, *Amata emma*, *Phytoecia rufiventris*, *Sympiezomias velatus*, *Holotrichia parallela*, *Serica orientalis*, *Holotrichia oblita*, *Anomala corpulenta*, *Tribolium castaneum*, *Tribolium confusum*, *Basilepta fulvipes*, *Lasioderma serricorne*, *Stegobium paniceum*, *Trogoderma variabile*, *Rhyzopertha dominica*, *Myzus persicae*, *Macrosiphoniella sanborni*, *Aphis gossypii*, *Trialeurodes vapoariorum*, *Coccus hesperidum*, *Icerya purchasi*, *Pseudococcus comstocki*, *Lycorma delicatula*, *Ricania speculum*, *Cicadella viridis*, *Empoasca flavescens*, *Stictopleurus subviridis*, *Cletus punctiger*, *Nysius ericae*, *Apolygus lucorum*, *Dolycoris baccarum*, *Thrips hawaiiensis*, *Frankliniella intonsa*, *Thrips flavus*, *Haplothrips bagrolis*, *Phytomyza syngenesiae*, *Chromatomyia horticola*, *Diarthronomyia chrysanthemi*, *Acrida cinerea*, *Oecanthus indicus*, *Atractomorpha sinensis*, *Tetranychus cinnabarinus*, *Tetranychus kanzawai*, *Hasarius adansoni*, *Theridion tepidariorum*, *Trogium pulsatorium*, *Troctes divinatorius*, *Limax maximus*	关群，1982；古金房和林若文，1986；王宗信等，1988；费伟英等，2016；张帅等，2016；郭胜涛，2018；李少华，2018；颜东昇，2018；彭孝琴等，2023；陈永忠等，2024；程立光，2024 Guan, 1982; Gu & Lin, 1986; Wang et al., 1988; Fei et al., 2016; Zhang et al., 2016; Guo, 2018; Li, 2018; Yan, 2018; Peng et al., 2023; Chen et al., 2024; Cheng, 2024
石斛 *Dendrobii caulis*	双尾琉璃小灰蝶、赤拟谷盗、突胫兰象、海南小囊螺、细钻螺、双线嗜黏液蛞蝓 *Hypolycaena kina inari*, *Tribolium castaneum*, *Orchidophilus aterrimus*, *Microcystis hainanica*, *Opeas gracile*, *Philomycus bilineatus*	关群，1982；敖苏等，2017；罗凯等，2017；赵艳等，2018；刘迎等，2021 Guan, 1982; Ao et al., 2017; Luo et al., 2017; Zhao et al., 2018; Liu et al., 2021
牛蒡 *Arctium lappa*	甜菜夜蛾、蚜虫、烟草甲、米象 *Spodoptera exigua*, *Aphis* sp., *Lasioderma serricorne*, *Sitophilus oryzae*	关群，1982；古金房和林若文，1986；刘飞等，2019 Guan, 1982; Gu & Lin, 1986; Liu et al., 2019
玉竹 *Polygonatum odoratum*	粉斑螟、暗褐郭公虫、锈赤扁谷盗、褐隐蕈甲、药材甲、一行窃蠹、肩角薪甲、阔角谷盗、日本蛛甲、米象、尘虱 *Ephestia cautella*, *Thaneroclerus buquet*, *Cryptolestes ferrugineus*, *Cryptophilus integer*, *Stegobium paniceum*, *Mesothes* sp., *Coninomus* sp., *Gnathocerus cornutus*, *Ptinus japonicus*, *Sitophilus oryzae*, *Trogium pulsatorium*	江镇涛等，1982；古金房和林若文，1986；王宗信等，1988 Jiang et al., 1982; Gu & Lin, 1986; Wang et al., 1988
沉香 *Aquilaria sinensis*	黄野螟、瘤胸簇天牛 *Heortia vitessoides*, *Aristobia hispida*	黎剑锦等，2017 Li et al., 2017
三七 *Panax notoginseng*	菜粉蝶、蓝灰蝶、茶尺蠖、国槐尺蠖、小地老虎、棉小造桥虫、白背飞虱、烟粉虱、白蛾蜡蝉、桃蚜、红带铲头叶蝉、南亚蚁粉蚧、黄守瓜、黑守瓜、粗刻米萤叶甲、黄曲条跳甲、茶丽纹象甲、沟金针虫、花胫绿纹蝗、短额负蝗、中华剑角蝗、山稻蝗、小稻蝗、棉蝗、鼻优草螽、华北蝼蛄、东方蝼蛄、东方大蟋、石首棺头蟋、米卡斗蟋、长颚斗蟋、美洲斑潜蝇、东方蜚蠊、德国小蠊、朱砂叶螨、野蛞蝓、同型巴蜗牛 *Pieris rapae*, *Everes argiades*, *Ectropis obliqua hypulina*, *Semiothisa cinerearia*, *Agrotis ipsilon*, *Anomis flava*, *Sogatella furcifera*, *Bemisia tabaci*, *Lawana imitata*, *Myzus persicae*, *Hecalus arcuatus*, *Formicococcus polysperes*, *Aulacophora indica*, *Aulacophora lewisii*, *Mimastra unicitarsis*, *Phyllotreta vittata*, *Myllocerinus aurolineatus*, *Pleonomus canaliculatus*, *Aiolopus tamulus*, *Atractomorpha sinensis*, *Acrida cinerea*, *Oxya agavisa*, *Oxya intricata*, *Chondracris rosea*, *Euconocephalus nasutus*, *Gryllotalpa unispina*, *Gryllotalpa orientalis*, *Brachytrupes portentosus*, *Loxoblemmus equestris*, *Velarifictorus micado*, *Velarifictorus aspersus*, *Liriomyza sativae*, *Blatta orientalis*, *Blattella germanica*, *Tetranychus cinnabarinus*, *Agriolima agrestis*, *Bradybaena similaris*	周俊静，2016；曹宁宁等，2019 Zhou, 2016; Cao et al., 2019
款冬花 *Tussilago farfara*	款冬蕾蛆、铜绿丽金龟、黄褐丽金龟、华北大黑鳃金龟、沟金针虫、锯谷盗、双齿谷盗、花斑皮蠹、黑菌虫、塞隐翅虫、印度谷螟、地中海粉螟、小缟螟、小地老虎 *Tetanops* sp., *Anomala corpulenta*, *Anomala exoleta*, *Holotrichia oblita*, *Pleonomus canaliculatus*, *Oryzaephilus surinamensis*, *Silvanus bidentatus*, *Trogoderma variabile*, *Alphitobius diaperinus*, *Philonthus* sp., *Plodia interpunctella*, *Ephestia kuehniella*, *Aglossa caprealis*, *Agrotis ipsilon*	关群，1982；古金房和林若文，1986；王宗信等，1988；李城德，2017；车树理等，2021；程云霞等，2023 Guan, 1982; Gu & Lin, 1986; Wang et al., 1988; Li, 2017; Che et al., 2021; Cheng et al., 2023

续表 1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
人参 *Panax ginseng*	大地老虎、小地老虎、黄地老虎、八字地老虎、草地螟、紫斑谷螟、一点谷螟、赤毛皮蠹、白腹皮蠹、沟金针虫、细胸金针虫、宽背金针虫、铜绿丽金龟、东方绢金龟、华北大黑鳃金龟、烟草甲、药材甲、家茸天牛、东方蝼蛄、华北蝼蛄、窗虻 *Agrotis tokionis*, *Agrotis ipsilon*, *Agrotis segetum*, *Agrotis c-nigrum*, *Loxostege sticticalis*, *Pyralis farinalis*, *Aphomia gularis*, *Dermesters tessellatocollis*, *Dermestes maculatus*, *Pleonomus canaliculatus*, *Agriotes subvittatus*, *Selatosomus latus*, *Anomala corpulenta*, *Serica orientalis*, *Holotrichia oblita*, *Lasioderma serricorne*, *Stegobium paniceum*, *Trichoferus campestris*, *Gryllotalpa orientalis*, *Gryllotalpa unispina*, *Scenopinus fenestralis*	关群, 1982; 古金房和林若文, 1986; 李长安和郭文菊, 1987; 王宗信等, 1988; 王瑞等, 2016; 张帅等, 2016; 胡鑫等, 2020 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Wang et al., 2016; Zhang et al., 2016; Hu et al., 2020
当归 *Angelicae sinensis*	小地老虎、干果斑螟、小缟螟、缟螟、印度谷螟、地中海粉螟、铜绿丽金龟、小云鳃金龟、细胫露尾甲、脊胸露尾甲、隆胸露尾甲、隆肩露尾甲、缩颈薪甲、华氏薪甲、毛蕈甲、黑菌虫、黑粉虫、杂拟谷盗、日本蛛甲、裸蛛甲、球棒皮蠹、锯谷盗、咖啡豆象、烟草甲、药材甲、毛衣鱼 *Agrotis ipsilon*, *Cadra cautella*, *Aglossa caprealis*, *Aglossa dimidiate*, *Plodia interpunctella*, *Ephestia kuehniella*, *Anomala corpulenta*, *Polyphylla gracilicornis*, *Carpophilus delkeskampi*, *Carpophilus dimidians*, *Carpophilus obsoletus*, *Carpophilus humerali*, *Coninomus constricta*, *Adistemia watsoni*, *Typhaea stercorea*, *Alphitobius diaperinus*, *Tenebrio obscurus*, *Tribolium confusum*, *Ptinus japonicus*, *Gibbium psylloides*, *Orphinus fulvipes*, *Oryzaephilus surinamensis*, *Araecerus fasciculatus*, *Lasioderma serricorne*, *Stegobium paniceum*, *Ctenolepisma villosa*	关群, 1982; 古金房和林若文, 1986; 李长安和郭文菊, 1987; 王宗信等, 1988; 张帅等, 2016 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016
大黄 *Rheum* spp.	苜蓿夜蛾、旋幽夜蛾、东方黏虫、小地老虎、大地老虎、黄地老虎、粉斑螟、一点谷螟、小缟螟、褐宇谷蛾、苹斑芫菁、东北华北大黑鳃金龟、黑绒金龟、沟金针虫、细胸金针虫、棕长毛皮蠹、黑皮蠹、花斑皮蠹、家茸天牛、暹罗谷盗、大谷盗、赤拟谷盗、黑粉虫、褐隐蕈甲、烟草甲、药材甲、肩四眼隐翅虫、黄足毒隐翅虫、玉带郭公虫、赤胸蚁形甲、甘蓝蚜、大青叶蝉、小绿叶蝉、斑须蝽、横纹菜蝽、苜蓿盲蝽、牧草盲蝽、牛角花齿蓟马、豌豆潜叶蝇、华北蝼蛄、亚洲小车蝗、红翅皱膝蝗、笨蝗、宽翅曲背蝗、意大利蝗、中华剑角蝗、短额负蝗、酪阳历螨 *Heliothis viriplaca*, *Scotogramma trifolii*, *Mythimna separata*, *Agrotis ipsilon*, *Agrotis tokionis*, *Agrotis segetum*, *Ephestia cautella*, *Aphomia gularis*, *Aglossa caprealis*, *Homalopsycha agglutinata*, *Mylabris calida*, *Holotrichia diomphalia*, *Maladera orientalis*, *Pleonomus canaliculatus*, *Agriotes subvittatus*, *Trinodes rufescens*, *Attagenus unicolor*, *Trogoderma variabile*, *Trichoferus campestris*, *Lophocateres pusillus*, *Tenebroides mauritanicus*, *Tribolium castaneum*, *Tenebrio obscurus*, *Cryptophilus integer*, *Lasioderma serricorne*, *Stegobium paniceum*, *Omalium hemerale*, *Paederus fuscipes*, *Tarsostenus univittatus*, *Anthicus* sp., *Brassica oleracea*, *Cicadella viridis*, *Empoasca flavescens*, *Dolycoris baccarum*, *Eurydema gebleri*, *Adelphocoris lineolatus*, *Lygus pratensis*, *Odontothrips loti*, *Chromatomyia horticola*, *Gryllotalpa unispina*, *Oedaleus asiaticus*, *Angaracris rhodopa*, *Haplotropis brunneriana*, *Pararcyptera microptera meridionalis*, *Calliptamus italicus*, *Acrida cinerea*, *Atractomorpha sinensis*, *Andorolaelaps casalis*	关群, 1982; 古金房和林若文, 1986; 李长安和郭文菊, 1987; 王宗信等, 1988; 潘水站等, 2023; 赵仲杰, 2023 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Pan et al., 2023; Zhao, 2023
厚朴 *Magnolia officinalis*	一点谷螟、东方绢金龟、黑粉虫、家茸天牛 *Aphomia gularis*, *Serica orientalis*, *Tenebrio obscurus*, *Trichoferus campestris*	江镇涛等, 1982; 李长安和郭文菊, 1987; 张帅等, 2016 Jiang et al., 1982; Li & Guo, 1987; Zhang et al., 2016
羌活 *Notopterygium* spp.	一点谷螟、药材甲、大理窃蠹、长角扁谷盗、白腹皮蠹、红颈小薪甲、侧沟瘦隐翅甲、波纹小蕈甲、仓潜、肥螋螋 *Aphomia gularis*, *Stegobium paniceum*, *Ptilineurus marmoratus*, *Cryptolestes pusillus*, *Dermestes maculatus*, *Dienerella ruficollis*, *Leptacinus parumpunctatus*, *Mycetophagus antennatus*, *Mesomorphus villiger*, *Anisolabis* sp.	关群, 1982; 江镇涛等, 1982; 王宗信等, 1988; 黄作喜和曾沿龙, 2018 Guan, 1982; Jiang et al., 1982; Wang et al., 1988; Huang & Zeng, 2018
侧柏 *Platycladus orientalis*	侧柏毒蛾、柏松毛虫、油桐尺蛾、印度谷螟、地中海粉螟、一点谷螟、侧柏大蚜、透明疏广蜡蝉、金绿宽盾蝽、双条杉天牛、脊胸露尾甲、锯谷盗、赤拟谷盗、亚扁粉盗、黑毛皮蠹、柏肤小蠹、土耳其扁谷盗、锈赤扁谷盗、黑翅土白蚁、朱砂叶螨、尘虱 *Parocneria furva*, *Dendrolimus suffuscus*, *Buzura suppressaria*, *Plodia interpunctella*, *Ephestia kuehniella*, *Aphomia gularis*, *Cinara tujafilina*, *Euricania clara*, *Poecilocoris lewisi*, *Semanotus bifasciatus*, *Carpophilus dimidians*, *Oryzaephilus surinamensis*, *Tribolium castaneum*, *Palorus subderpressus*, *Attagenus piceus*, *Phloeosinus aubei*, *Cryptolestes turcicus*, *Cryptolestes ferrugineus*, *Odontotermes formosanus*, *Tetranychus cinnabarinus*, *Trogium pulsatorium*	关群, 1982; 古金房和林若文, 1986; 李长安和郭文菊, 1987; 王宗信等, 1988; 张婷, 2017; 颜东昇, 2018; 闫玮华, 2022; 曹慧珍, 2024; 刘佳, 2024 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Zhang, 2017; Yan, 2018; Yan, 2022; Cao, 2024; Liu, 2024
山茱萸 *Cornus officinalis*	绿尾大蚕蛾、大蓑蛾、黄刺蛾、山茱萸蛀果蛾、小地老虎、黄地老虎、大青叶蝉、小绿叶蝉、斑衣腊蝉、苹毛丽金龟、东方绢金龟、华北大黑鳃金龟、脊胸露尾甲、绿腿腹露蝗、书虱 *Actias selene*, *Clania variegata*, *Cnidocampa flavescens*, *Carposina coreana*, *Agrotis ipsilon*, *Agrotis segetum*, *Cicadella viridis*, *Empoasca flavescens*, *Lycorma delicatula*, *Proagopertha lucidula*, *Serica orientalis*, *Holotrichia oblita*, *Carpophilus dimidians*, *Fruhstorferiola viridifemorata*, *Troctes divinatorius*	王宗信等, 1988; 张帅等, 2016; 张和和李桃, 2018 Wang et al., 1988; Zhang et al., 2016; Zhang & Li, 2018

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
银杏 *Ginkgo biloba*	大蓑蛾、茶袋蛾、褐袋蛾、白囊蓑蛾、小蓑蛾、银杏大蚕蛾、樗蚕、樟蚕、相思拟木蠹蛾、荔枝拟木蠹蛾、小线角木蠹蛾、榆木蠹蛾、扁刺蛾、黄刺蛾、青刺蛾、小地老虎、甜菜夜蛾、斜纹夜蛾、甘蓝夜蛾、棉铃虫、舞毒蛾、杨毒蛾、亚洲玉米螟、桃蛀螟、褐带长卷蛾、后黄卷蛾、超小卷叶蛾、黄连木尺蛾、油桐尺蠖、康氏粉蚧、草履蚧、桑白蚧、考氏白盾蚧、大青叶蝉、云斑天牛、刺角天牛、褐天牛、白星花金龟、华北大黑鳃金龟、铜绿丽金龟、毛黄鳃金龟、东方绢金龟、沟金针虫、黑菌虫、黑粉虫、华北蝼蛄、东方蝼蛄、油葫芦、茶黄蓟马、朱砂叶螨 *Clania variegata*, *Clania minuscula*, *Mahasena colona*, *Chalioides kondonis*, *Cryptothelea minuscula*, *Dictyoploca japonica*, *Philosamia cynthia*, *Eriogyna pyretorum*, *Arbela baibarana*, *Arbela dea*, *Holcocerus insularis*, *Holcocerus vicarius*, *Thosea sinensts*, *Cnidocampa flavescens*, *Parasa consocia*, *Agrotis ipsilon*, *Spodoptera exigua*, *Spodoptera litura*, *Mamestra brassicae*, *Helicoverpa armigera*, *Lymantria dispar*, *Leueoma candida*, *Ostrinia furnacalis*, *Dichocrosis punetiferalis*, *Homona coffearia*, *Cacoecia asiatica*, *Pammene ginkgoicala*, *Culcula panterinaria*, *Buzura suppressaria*, *Pseudococcus comstocki*, *Drosicha corpulenta*, *Pseudaulacaspis pentagona*, *Pseudaulacaspis cockerelli*, *Cicadella viridis*, *Batocera lineolata*, *Trirachys orientalis*, *Nadezhdiella cantori*, *Potosia brevitarsis*, *Holotrichia oblita*, *Anomala corpulenta*, *Holotrichia trichophora*, *Serica orientalis*, *Pleonomus canaliculatus*, *Alphitobius diaperinus*, *Tenebrio obscurus*, *Gryllotalpa unispina*, *Gryllotalpa orientalis*, *Gryllulus testaceus*, *Scirtothrips dorsalis*, *Tetranychus cinnabarinus*	李长安和郭文菊,1987;王宗信等,1988;翟今成等,2015;费伟英等,2016;王洁等,2016;谌彩红等,2017;肖纬坤,2017;颜东昇,2018;张应等,2020;颜培学和曹文玉,2022;叶淑琴,2022;隋敏和王英杰,2023;王超,2024 Li & Guo, 1987; Wang et al., 1988; Zhai et al., 2015; Fei et al., 2016; Wang et al., 2016; Chen et al., 2017; Xiao, 2017; Yan, 2018; Zhang et al., 2020; Yan & Cao, 2022; Ye, 2022; Sui & Wang, 2023; Wang, 2024
山药 *Dioscorea opposita*	斜纹天蛾、斜纹夜蛾、甜菜夜蛾、小地老虎、大地老虎、黄地老虎、印度谷螟、紫斑谷螟、温室白粉虱、粉背刺粉虱、烟粉虱、棉叶蝉、大青叶蝉、小绿叶蝉、绿盲蝽、暗黑鳃金龟、华北大黑鳃金龟、小阔胫绢金龟、黄斑长跗萤叶甲、沟金针虫、烟草甲、大谷盗、谷蠹、竹蠹、米象、咖啡豆象、褐隐蕈甲、锈赤扁谷盗、家茸天牛、大眼锯谷盗、小粉甲、阔角谷盗、白唇角瓣叶蜂、蓼叶蜂、东方蝼蛄、华北蝼蛄、短额负蝗、西花蓟马、种蝇、茶黄螨、红蜘蛛、德国小蠊、圆腹宽缝拟蝎 *Theretra clotho*, *Spodoptera litura*, *Spodoptera exigua*, *Agrotis ipsilon*, *Agrotis tokionis*, *Agrotis segetum*, *Plodia interpunctella*, *Pyralis farinalis*, *Trialeurodes vapoariorum*, *Aleurocanthus inceratus*, *Bemisia tabaci*, *Amrasca biguttul*, *Cicadella viridis*, *Empoasca flavescens*, *Apolygus lucorum*, *Holotrichia parallela*, *Holotrichia oblita*, *Maladera verticalis*, *Monolepta signata*, *Pleonomus canaliculatus*, *Lasioderma serricorne*, *Tenebroides mauritanicus*, *Rhyzopertha dominica*, *Dinoderus minutus*, *Sitophilus oryzae*, *Araecerus fasciculatus*, *Cryptophilus integer*, *Cryptolestes ferrugineus*, *Trichoferus campestris*, *Oryzaephilus mercator*, *Alphitobius laevigatus*, *Gnathocerus cornutus*, *Senoclidea decora*, *Blennocam* spp., *Gryllotalpa orientalis*, *Gryllotalpa unispina*, *Atractomorpha sinensis*, *Frankliniella occidentalis*, *Delia* sp., *Polyphagotarsonemus latus*, *Brevipalpus* sp., *Blattella germanica*, *Chelifer panzeri*	关群,1982;李长安和郭文菊,1987;王宗信等,1988;张帅等,2016;兰成云等,2022;王腾等,2023 Guan, 1982; Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016; Lan et al., 2022; Wang et al., 2023
女贞 *Ligustrum lucidum*	茶袋蛾、白囊蓑蛾、梨剑纹夜蛾、白眼尺蛾、女贞尺蛾、黄灰尺蛾、霜天蛾、女贞绒天蛾、白蜡绢野螟、弯囊绢须野螟、枯球箩纹蛾、青球箩纹、茶长卷蛾、樟网盾蚧、春藤圆盾蚧、柑橘刺圆盾蚧、榆蛎盾蚧、白蜡蚧、日本龟蜡蚧、角蜡蚧、桂花长珠蚧、柑橘粉虱、八点广翅蜡蝉、透明疏广蜡蝉、青蛾蜡蝉、锈色粒肩天牛、云斑天牛、女贞球象、铜绿丽金龟、女贞瓢跳甲、药材甲、锯谷盗、米扁虫、黄脊竹蝗、棉蝗、黑翅土白蚁、女贞叶刺瘿螨 *Clania minuscula*, *Chalioides kondonis*, *Acronicta rumicis*, *Problepsis albidior*, *Naxa seriaria*, *Tephrina flavescens*, *Psilogramma menephron*, *Kentrochrysalis streckeri*, *Diaphania nigropunctalis*, *Palpita hypohomalia*, *Brahmophthalma wallichii*, *Brahmaea hearseyi*, *Homona magnaima*, *Pseudaonidia duplex*, *Aspidiotus nerii*, *Octaspidiotus stauntoniae*, *Lepidosaphes ulmi*, *Ericerus pela*, *Ceroplastes japonicus*, *Ceroplastes ceriferus*, *Neogreenia osmanthus*, *Dialeurodes citri*, *Ricania speculum*, *Euricania clara*, *Salurnis marginellus*, *Apriona swainsoni*, *Batocera lineolata*, *Stereonychus angulicollis*, *Anomala corpulenta*, *Argopistes tsekooni*, *Stegobium paniceum*, *Oryzaephilus surinamensis*, *Ahasverus advena*, *Ceracrs kiangsu*, *Chondracris rosea*, *Odontotermes formosanus*, *Phyllocoptes ligustri*	江镇涛等,1982;古金房和林若文,1986;蔡婷婷等,2015;费伟英等,2016;谌彩红等,2017;肖纬坤,2017;颜东昇,2018;王冲和唐晓棠,2021;薛秦霞等,2021;叶淑琴,2022;郑心怡和邢济春,2022 Jiang et al., 1982; Gu & Lin, 1986; Cai et al., 2015; Fei et al., 2016; Chen et al., 2017; Xiao, 2017; Yan, 2018; Wang & Tang, 2021; Xue et al., 2021; Ye, 2022; Zheng & Xing, 2022
艾叶 *Artemisiae argyi*	菊方翅网蝽 *Corythucha marmorata*	王梓欣等,2023 Wang et al., 2023
辛夷 *Magnolia* spp.	锈赤扁谷盗、小圆甲、椭圆薪甲 *Cryptolestes ferrugineus*, *Murmidius ovalis*, *Holoparanecus ellipticus*	古金房和林若文,1986 Gu & Lin, 1986
杜仲 *Eucommia ulmoides*	咖啡豹蠹蛾、豹纹木蠹蛾、小地老虎、杜仲梦尼夜蛾、黄刺蛾、扁刺蛾、青刺蛾、舞毒蛾、绿尾大蚕蛾、茶翅蝽、小绿叶蝉、蚱蝉、木虱、桑天牛、黑绒金龟子、铜绿丽金龟、暗黑鳃金龟、华北大黑鳃金龟、绿鳞象甲、红颈小薪甲、缝隐翅虫、洋虫、华北蝼蛄、东方蝼蛄、圆腹拟蝎 *Zeuzera cofeae*, *Zeuzera leuconolum*, *Agrotis ipsilon*, *Orthosia songi*, *Cnidocampa flavescens*, *Thosea sinensts*, *Parasa consocia*, *Lymantria dispar*, *Actias selene*, *Halyomorpha halys*, *Empoasca flavescens*, *Cryptotympana atrata*, *Calophya* sp., *Apriona germari*, *Maladera orientalis*, *Anomala corpulenta*, *Holotrichia parallela*, *Holotrichia oblita*, *Hypomeces squamosus*, *Dienerella ruficollis*, *Oxypoda* sp., *Ulomoides dermestoides*, *Gryllotalpa unispina*, *Gryllotalpa orientalis*, *Chelifer* sp.	关群,1982;江镇涛等,1982;王宗信等,1988;张帅等,2016;肖纬坤,2017;贾玉珍等,2018;颜东昇,2018;朱哲远等,2021;刁爱国等,2024 Guan, 1982; Jiang et al., 1982; Wang et al., 1988; Zhang et al., 2016; Xiao, 2017; Jia et al., 2018; Yan, 2018; Zhu et al., 2021; Diao et al., 2024

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
木瓜 *Chaenomeles speciosa*	梨小食心虫、苹掌舟蛾、春尺蠖、金毛虫、桃蚜、禾谷缢管蚜、绣线菊蚜、八点广翅蜡蝉、斑衣腊蝉、大青叶蝉、小绿叶蝉、菱纹叶蝉、茶翅蝽、斑须蝽、稻棘缘蝽、木虱、黑刺粉虱、白星花金龟、铜绿丽金龟、褐锈花金龟、大灰象甲、姬粉盗、锯谷盗、圆薪甲、红颈小薪甲、中华粉蠹、烟草甲、台湾树蟋、短额负蝗、书虱、尘虱、灰巴蜗牛、蟹形拟蝎 *Grapholita molesta*, *Phalera flavescens*, *Apocheima cinerarius*, *Porthesia similis*, *Myzus persicae*, *Rhopalosiphum padi*, *Aphis citricola*, *Ricania speculum*, *Lycorma delicatula*, *Cicadella viridis*, *Empoasca flavescens*, *Hishmonus sellatus*, *Halyomorpha halys*, *Dolycoris baccarum*, *Cletus punctiger*, *Calophya* sp., *Aleurocanthus spiniferus*, *Potosia brevitarsis*, *Anomala corpulenta*, *Trematodes tenebrioides*, *Sympiezomias velatus*, *Palorus ratzeburgi*, *Oryzaephilus surinamensis*, *Holoparamecus ellipticus*, *Dienerella ruficollis*, *Lyctus sinensis*, *Lasioderma serricorne*, *Oecanthus indicus*, *Atractomorpha sinensis*, *Troctes divinatorius*, *Trogium pulsatorium*, *Bradybaena ravida*, *Chelifer cancroides*	关群，1982；江镇涛等，1982；李长安和郭文菊，1987；王宗信等，1988；张帅等，2016；李少华，2018 Guan, 1982; Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016; Li, 2018
地黄 *Rehmannia glutinosa*	地中海粉螟、一点谷螟、紫斑谷螟、印度谷螟、暗褐郭公虫、烟草甲、花斑皮蠹、四纹长皮蠹、小圆甲、锯谷盗、黑粉虫、黑短阎虫 *Ephestia kuehniella*, *Aphomia gularis*, *Pyralis farinalis*, *Plodia interpunctella*, *Thaneroclerus buquet*, *Lasioderma serricorne*, *Trogoderma variabile*, *Megatoma graeseri*, *Murmidius ovalis*, *Oryzaephilus surinamensis*, *Tenebrio obscurus*, *Carcinops pumilio*	关群，1982；江镇涛等，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988
莲子 *Nelumbo nucifera*	印度谷螟、地中海粉螟、花斑皮蠹、日本粉蠹、烟草甲、绿豆象、米象、暹罗谷盗、脊胸露尾甲、东方薪甲、洋虫 *Plodia interpunctella*, *Ephestia kuehniella*, *Trogoderma variabile*, *Lyctoxylon japonum*, *Lasioderma serricorne*, *Callosobruchus chinensis. Sitophilus oryzae*, *Cryptolestes pusillus*, *Carpophilus dimidians*, *Migneauxia orientalis*, *Ulomoides dermestoides*	关群，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988 Guan,1982;Gu&Lin,1986;Li&Guo, 1987; Wang et al., 1988
芡实 *Euryale ferox*	斜纹夜蛾、印度谷螟、地中海粉螟、莲缢管蚜、菱紫叶蝉、赤颈郭公虫、长腿水叶甲、烟草甲、药材甲、大谷盗、米象、咖啡豆象、蚕豆象、白腹皮蠹、棕长毛皮蠹、锈赤扁谷盗、长角扁谷盗、赤拟谷盗、干果露尾甲 *Spodoptera litura*, *Plodia interpunctella*, *Ephestia kuehniella*, *Rhopalosiphum nymphaeae*, *Macrosteles purpurata*, *Necrobia ruficollis*, *Donacia provostii*, *Lasioderma serricorne*, *Stegobium paniceum*, *Tenebroides mauritanicus*, *Sitophilus oryzae*, *Araecerus fasciculatus*, *Bruchus rufimanus*, *Dermestes maculatus*, *Trinodes rufescens*, *Cryptolestes ferrugineus*, *Cryptolestes pusillus*, *Tribolium castaneum*, *Carpophilus mutilatus*	关群，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988；杜海波等，2021 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Du et al., 2021
枳壳 *Aurantii fructus*	药材甲、小圆皮蠹、大谷盗、赤拟谷盗、杂拟谷盗、平隐翅虫、日本蛛甲、柑橘全爪螨 *Stegobium paniceum*, *Anthrenus verbasci*, *Tenebroides mauritanicus*, *Tribolium castaneum*, *Tribolium confusum*, *Platystethus* sp., *Ptinus japonicus*, *Panonychus citri*	关群，1982；江镇涛等，1982；李长安和郭文菊，1987；王宗信等，1988；潘登，2021 Guan, 1982; Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Pan, 2021
西洋参 *Panax quinquefolium*	锯谷盗、谷蠹、药材甲、异型眼蕈蚊、异迟眼蕈蚊、速生薄口螨、似士维螨、球囊线蚓 *Oryzaephilus surinamensis*, *Rhyzopertha dominica*, *Stegobium paniceum*, *Phyxia scabiei*, *Bradysia impatiens*, *Histiostoma feronirum*, *Schwiebea similis*, *Enchytraeus bulbosus*	古金房和林若文，1986；赵利敏等，2017；杨婷，2023；孟思苗，2024 Gu & Lin, 1986; Zhao et al., 2017; Yang, 2023; Meng, 2024
栀子 *Gardenia jasminoides*	咖啡透翅天蛾、栀子灰蝶、桃蛀螟、栀子卷叶螟、大蓑蛾、黄刺蛾、扁刺蛾、茶斑蛾、绣线菊蚜、棉蚜、桃蚜、黑褐圆盾蚧、考氏白盾蚧、红蜡蚧、日本龟蜡蚧、角蜡蚧、康氏粉蚧、柑橘粉虱、烟粉虱、茶翅蝽、铜绿丽金龟、暗黑鳃金龟、东方蝼蛄、中华蟋蟀、西花蓟马、黄胸蓟马、黑翅土白蚁、神泽氏叶螨 *Cephonodes hylas*, *Deudorix eryx horiella*, *Dichocrosis punetiferalis*, *Archernis tropicalis*, *Clania variegata*, *Cnidocampa flavescens*, *Thosea sinensts*, *Eterusia aedea*, *Aphis citricola*, *Aphis gossypii*, *Myzus persicae*, *Chrysomphalus aonidum*, *Pseudaulacaspis cockerelli*, *Ceroplastes rubens*, *Ceroplastes japonicus*, *Ceroplastes ceriferus*, *Pseudococcus comstocki*, *Dialeurodes citri*, *Bemisia tabaci*, *Halyomorpha halys*, *Anomala corpulenta*, *Holotrichia parallela*, *Gryllotalpa orientalis*, *Gryllus chinensis*, *Frankliniella occidentalis*, *Thrips hawaiiensis*, *Odontotermes formosanus*, *Tetranychus kanzawai*	费伟英等，2016；肖纬坤，2017；颜东昇，2018；曹宇，2019；杨芳等，2019；梁正杰等，2021 Fei et al., 2016; Xiao, 2017; Yan, 2018; Cao, 2019; Yang et al., 2019; Liang et al., 2021
黄精 *Polygonati rhizoma*	黑缘条大叶蝉、湖北条大叶蝉、基刺瑞脊菱蜡蝉、瘤缘蝽、红角辉蝽、菜蝽、二星蝽、茶翅蝽、宽碧蝽、长跗叶甲、黄斑长跗萤叶甲、甘薯肖叶甲、甘薯褐龟甲、三带椭龟甲、药材甲、烟草甲、脊胸露尾甲、小圆甲、赤拟谷盗、扁薪甲、异角胸斑蝗、尘虱 *Atkinsoniella heiyuana*, *Atkinsoniella hupehna*, *Reptalus basiprocessus*, *Acanthocoris scaber*, *Carbula crassiventris*, *Eurydema dominulus*, *Eysarcoris guttigerus*, *Halyomorpha halys*, *Palomena viridissima*, *Monolepta* sp., *Monolepta signata*, *Colasposoma dauricum*, *Laccoptera quadrimaculata*, *Glyphocassis trilineata*, *Stegobium paniceum*, *Lasioderma serricorne*, *Carpophilus dimidians*, *Murmidius ovalis*, *Tribolium castaneum*, *Holoparamecus depressus*, *Apalacris varicornis*, *Trogium pulsatorium*	关群，1982；江镇涛等，1982；王宗信等，1988；龙婷婷，2024 Guan, 1982; Jiang et al., 1982; Wang et al., 1988; Long, 2024

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
葛根 *Pueraria lobata*	桑白蚧、紫茎甲、药材甲、赤拟谷盗、褐隐蕈甲、灭字脊虎天牛、圆腹宽缝拟蝎 *Pseudaulacaspis pentagona*, *Sagra femorata purpurea*, *Stegobium paniceum*, *Tribolium castaneum*, *Cryptophilus integer*, *Xylotrechus quadripes*, *Chelifer panzeri*	关群,1982;江镇涛等,1982;李长安和郭文菊,1987;王宗信等,1988;蔡永鹏,2017;李袁杰等,2022 Guan, 1982; Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Cai, 2017; Li et al., 2022
山楂 *Crataegus pinnatifida*	印度谷螟、桃小食心虫、白小食心虫、黄刺蛾、黄褐天幕毛虫、山楂绢粉蝶、梨星毛虫、苹掌舟蛾、茶翅蝽、苹毛丽金龟、烟草甲、椭圆薪甲、山楂叶螨、褐斑花皮蛛、花蛤沙蛛 *Plodia interpunctella*, *Carposina sasakii*, *Spilonata albicana*, *Cnidocampa flavescens*, *Malacosoma neustria testacea*, *Aporia crataegi*, *Illiberis pruni*, *Phalera flavescens*, *Halyomorpha halys*, *Proagopertha lucidula*, *Lasioderma serricorne*, *Holoparanecus ellipticus*, *Tetranychus viennensis*, *Scytodes thoracica*, *Hasarius adansoni*	关群,1982;古金房和林若文,1986;王宗信等,1988;刘学海等,2020;支莉,2022;程云霞等,2023;宋国平,2023;王猛,2024 Guan, 1982; Gu & Lin, 1986; Wang et al., 1988; Liu et al., 2020; Zhi, 2022; Cheng et al., 2023; Song, 2023; Wang, 2024
远志 *Polygala tenuifolia*	锯谷盗、米扁虫、烟草甲、四行薪甲 *Oryzaephilus surinamensis*, *Ahasverus advena*, *Lasioderma serricorne*, *Lathridius bergrothi*	江镇涛等,1982;古金房和林若文,1986;王宗信等,1988 Jiang et al., 1982; Gu & Lin, 1986; Wang et al., 1988
苦参 *Sophora flavescens*	小地老虎、大豆食心虫、普长角叶螟、蚜虫、缩颈薪甲、扁薪甲、咖啡豆象、中华豆芫菁、华北蝼蛄、书虱、尘虱、褐斑花皮蛛 *Agrotis ipsilon*, *Leguminivora glycinivorella*, *Uresiphita prunipennis*, *Aphis* sp., *Coninomus constricta*, *Holoparamecus depressus*, *Araecerus fasciculatus*, *Epicauta chinensis*, *Gryllotalpa unispina*, *Troctes divinatorius*, *Trogium pulsatorium*, *Scytodes thoracica*	江镇涛等,1982;古金房和林若文,1986;王宗信等,1988;石爱丽等,2015;孙艳梅等,2022 Jiang et al., 1982; Gu & Lin, 1986; Wang et al., 1988; Shi et al., 2015; Sun et al., 2022
槐米 *Sophora japonica*	国槐小卷蛾、国槐尺蠖、桑褶翅尺蛾、大造桥虫、黄刺蛾、大蓑蛾、白囊蓑蛾、茶袋蛾、榆木蠹蛾、豆天蛾、刺槐掌舟蛾、樗蚕、黄尾毒蛾、近日污灯蛾、印度谷螟、地中海粉螟、绿盲蝽、苜蓿盲蝽、三点盲蝽、中黑盲蝽、刺槐蚜、草履蚧、桑白蚧、槐花球蚧、扁平球坚蚧、大青叶蝉、斑衣腊蝉、红脊长蝽、铜绿丽金龟、四纹弧丽金龟、大灰象甲、黄须球小蠹、日本双棘长蠹、锈色粒肩天牛、星天牛、沟金针虫、黑粉虫、锯谷盗、棉蝗、油葫芦、截形叶螨、朱砂叶螨、圆腹宽缝拟蝎 *Cydia trasias*, *Semiothisa cinerearia*, *Apochima excavate*, *Ascotis selenaria*, *Cnidocampa flavescens*, *Clania variegata*, *Chalioides kondonis*, *Clania minuscula*, *Holcocerus vicarius*, *Clanis bilineata*, *Phalera grotei*, *Philosamia cynthia*, *Sphrageidus similis*, *Spilarctia melli*, *Plodia interpunctella*, *Ephestia kuehniella*, *Apolygus lucorum*, *Adelphocoris lineolatus*, *Adelphocoris fasciaticollis*, *Adelphocoris suturalis*, *Aphis robiniae*, *Drosicha corpulenta*, *Pseudaulacaspis pentagona*, *Eulecanium kuwanai*, *Parthenolecanium corni*, *Cicadella viridis*, *Lycorma delicatula*, *Tropidothorax elegans*, *Anomala corpulenta*, *Popillia quadiguttata*, *Sympiezomias velatus*, *Sphaerotrypes coimbatorensis*, *Sinoxylon japonicum*, *Apriona swainsoni*, *Anoplophora chinensis*, *Pleonomus canaliculatus*, *Tenebrio obscurus*, *Oryzaephilus surinamensis*, *Chondracris rosea*, *Gryllulus testaceus*, *Tetranychus truncatus*, *Tetranychus cinnabarinus*, *Chelifer panzeri*	关群,1982;江镇涛等,1982;古金房和林若文,1986;王宗信等,1988;霍贵中,2017;王会龙,2017;肖纬坤,2017;何勇,2018;颜东昇,2018;薛秦霞等,2021;叶淑琴,2022 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Wang et al., 1988; Huo, 2017; Wang, 2017; Xiao, 2017; He, 2018; Yan, 2018; Xue et al., 2021; Ye, 2022
芍药 *Paeonia lactiflora*	黄缘绿刺蛾、扁刺蛾、桑褐刺蛾、桦黄卷蛾、茶袋蛾、人纹污灯蛾、仓潜、杂拟谷盗、赤拟谷盗、黄守瓜、双斑萤叶甲、黄闪彩丽金龟、阔胫绒金龟、小阔胫绒金龟、棕色鳃金龟、无斑弧丽金龟、铜绿丽金龟、黄褐丽金龟、苹毛丽金龟、白星花金龟、东方绢金龟、华北大黑鳃金龟、暗黑鳃金龟、毛黄鳃金龟、沟金针虫、细胸金针虫、棕须天牛、家茸天牛、米扁虫、锯谷盗、烟草甲、药材甲、大谷盗、长角扁谷盗、咖啡豆象、白腹皮蠹、脊胸露尾甲、隆胸露尾甲、酱曲露尾甲、谷蠹、褐隐蕈甲、毛蕈甲、塞隐翅虫、桃蚜、紫薇绒蚧、矢尖蚧、樟网盾蚧、华北蝼蛄、东方蝼蛄、蛞蝓、书虱、尘虱 *Latoia consocia*, *Thosea sinensts*, *Setora postornata*, *Archips decretanus*, *Clania minuscula*, *Spilarctia subcarnea*, *Mesomorphus villiger*, *Tribolium confusum*, *Tribolium castaneum*, *Aulacophora indica*, *Monolepta hieroglyphica*, *Mimela testaceoviridis*, *Maladera verticalis*, *Maladera ovatula*, *Holotrichia titanis*, *Popillia mutans*, *Anomala corpulenta*, *Anomala exoleta*, *Proagopertha lucidula*, *Potosia brevitarsis*, *Serica orientalis*, *Holotrichia oblita*, *Holotrichia parallela*, *Holotrichia trichophora*, *Pleonomus canaliculatus*, *Agriotes subvittatus*, *Oberea reductesignata*, *Trichoferus campestris*, *Ahasverus advena*, *Oryzaephilus surinamensis*, *Lasioderma serricorne*, *Stegobium paniceum*, *Tenebroides mauritanicus*, *Cryptolestes pusillus*, *Araecerus fasciculatus*, *Dermestes maculatus*, *Carpophilus dimidians*, *Carpophilus obsoletus*, *Carpophilus hemipterus*, *Rhyzopertha dominica*, *Cryptophilus integer*, *Typhaea stercorea*, *Philonthus* sp., *Myzus persicae*, *Eriococcus legerstroemiae*, *Unaspis yanonensis*, *Pseudaonidia duplex*, *Gryllotalpa unispina*, *Gryllotalpa orientalis*, *Limax maximus*, *Troctes divinatorius*, *Trogium pulsatorium*	关群,1982;江镇涛等,1982;古金房和林若文,1986;李长安和郭文菊,1987;王宗信等,1988;费伟英等,2016;张帅等,2016;肖纬坤,2017;颜东昇,2018;孙艳梅等,2022;张明爽等,2023 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Fei et al., 2016; Zhang et al., 2016; Xiao, 2017; Yan, 2018; Sun et al., 2022; Zhang et al., 2023

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
蒲公英 *Taraxacum mongolicum*	蚜虫、短额负蝗、尘虱 *Aphis* sp., *Atractomorpha sinensis*, *Trogium pulsatorium*	江镇涛等, 1982; 刘凤菊等, 2017; 牟彦军等, 2021 Jiang et al., 1982; Liu et al., 2017; Mou et al., 2021
沙棘 *Hippophae rhamnoides*	舞毒蛾、古毒蛾、春尺蛾、律草洲尺蛾、国槐尺蛾、桦尺蠖、沙棘白眉天蛾、曲纹叉斑螟、拟双色斑螟、竹淡黄野螟、中白长麟斑螟、库氏歧角螟、四斑绢丝野螟、甜菜青野螟、贯众伸喙野螟、棉褐环野螟、旱柳原野螟、银翅黄纹草螟、泰山簇斑螟、卡夜斑螟、红纹细突野螟、三条扇野螟、刺刺类斑螟、直纹野螟、横线镰翅野螟、红缘须歧野、螟红带峰斑螟、栎黄枯叶蛾、绵山幕毛虫、黄褐天幕毛虫、二点委夜蛾、宽小卷蛾、点基斜纹小卷蛾、丽江柳小卷蛾、小菜蛾、黄刺蛾、沙棘木蠹蛾、芳香木蠹蛾、沙柳木蠹蛾、蚜虫、白星花金龟、铜绿丽金龟、红缘天牛、沙棘绕实蝇 *Lymantria dispar*, *Orgyia antiqua*, *Apocheima cinerarius*, *Epirrhoe supergressa*, *Semiothisa cinerearia*, *Biston betularia*, *Celerio hippophaes*, *Furcata karenkolla*, *Furcata paradichromella*, *Demobotys pervulgalis*, *Vinicia gypsopa*, *Endotricha kuznetzovi*, *Glyphodes quadrimaculalis*, *Spoladea recurvalis*, *Mecyna gracilis*, *Haritalodes derogates*, *Proteuclasta stotzener*, *Xanthocrambus argentarius*, *Psorosa taishanella*, *Nyctegertis lineana*, *Ecpyrrhorrhoe rubiginalis*, *Pleuroptya chlorophanto*, *Phycitodes albatella*, *Pyrausta noctualis*, *Circobotys hererogenalis*, *Trichophysetis rufoterminalis*, *Acrobasis rufizonella*, *Trabala vishnou*, *Malacosoma rectifascia*, *Malacosoma neustria testacea*, *Athetis lepigone*, *Olethreutes transversana*, *Apotomis capreana*, *Gypsonoma rubescens*, *Plutella xylostella*, *Cnidocampa flavescens*, *Holcocerus hippophaecolus*, *Cossus cossus*, *Holcocerus arenicola*, *Aphis* sp., *Potosia brevitarsis*, *Anomala corpulenta*, *Asias halodendri*, *Rhagoletis batava*	门丽娜等, 2016; 谢孝坤和韩小冰, 2017; 冯丹丹等, 2020; 丁明, 2022; 高飞等, 2022; 宋国平, 2023; 李欣等, 2024; 李培忠·乌日格木等, 2024 Men et al., 2016; Xie & Han, 2017; Feng et al., 2020; Ding, 2022; Gao et al., 2022; Song, 2023; Li et al., 2024; Li et al., 2024
紫苏 *Perilla frutescens*	人纹污灯蛾、银纹夜蛾、甜菜夜蛾、紫苏野螟、小缟螟、温室白粉虱、斑须蝽、蚜虫、大青叶蝉、朱砂叶螨、酱曲露尾甲、双齿谷盗 *Spilarctia subcarnea*, *Argyrogramma agnata*, *Spodoptera exigua*, *Pyrausta phoenicealis*, *Aglossa caprealis*, *Trialeurodes vapoariorum*, *Dolycoris baccarum*, *Aphis* sp., *Cicadella viridis*, *Tetranychus cinnabarinus*, *Carpophilus hemipterus*, *Silvanus bidentatus*	李长安和郭文菊, 1987; 王宗信等, 1988; 马士启, 2015; 岳瑾等, 2015; 邱磊等, 2023 Li & Guo, 1987; Wang et al., 1988; Ma, 2015; Yue et al., 2015; Qiu et al., 2023
防风 *Saposhnikovia divaricata*	黄翅茴香螟、小缟螟、金凤蝶、黑粉虫、毛蕈甲、黄色小蕈甲、扁薪甲、丝薪甲、小圆甲、书虱 *Loxostege palealis*, *Aglossa caprealis*, *Papilio machaon*, *Tenebrio obscurus*, *Typhaea stercorea*, *Typhaea pallidula*, *Holoparamecus depressus*, *Cartodere filiformis*, *Murmidius ovalis*, *Troctes divinatorius*	江镇涛等, 1982; 李长安和郭文菊, 1987; 王宗信等, 1988; 王艳, 2021 Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Wang, 2021
五味子 *Schisandra* spp.	小地老虎、大豆螟蛾、女贞细卷蛾、柳蝙蛾、美国白蛾、小绿叶蝉、桑白蚧、康氏粉蚧、铜绿丽金龟、黑绒金龟、白星花金龟 *Agrotis ipsilon*, *Etiella zinckenella*, *Eupoecilia ambiguella*, *Phassus excrescens*, *Hyphantria cunea*, *Empoasca flavescens*, *Pseudaulacaspis pentagona*, *Pseudococcus comstocki*, *Anomala corpulenta*, *Maladera orientalis*, *Potosia brevitarsis*	古金房和林若文, 1986; 孙博位等, 2023; 李峤杰等, 2024; 魏怡冰等, 2024 Gu & Lin, 1986; Sun et al., 2023; Li et al., 2024; Wei et al., 2024
伊贝母 *Fritillariae pallidiflorae*	铜绿丽金龟、苹毛丽金龟、暗黑鳃金龟、棕色鳃金龟、沟金针虫、华北蝼蛄 *Anomala corpulenta*, *Proagopertha lucidula*, *Holotrichia parallela*, *Holotrichia titanis*, *Pleonomus canaliculatus*, *Gryllotalpa unispina*	张帅等, 2016 Zhang et al., 2016
平贝母 *Fritillaria ussuriensis*	铜绿丽金龟、苹毛丽金龟、暗黑鳃金龟、棕色鳃金龟、沟金针虫、华北蝼蛄、刺足根螨 *Anomala corpulenta*, *Proagopertha lucidula*, *Holotrichia parallela*, *Holotrichia titanis*, *Pleonomus canaliculatus*, *Gryllotalpa unispina*, *Rhizoglyhus echinopus*	李震军和张淑华, 2016; 张帅等, 2016; 许艳梅, 2022 Li & Zhang, 2016; Zhang et al., 2016; Xu, 2022
水飞蓟 *Silybum marianum*	菜粉蝶、小菜蛾、蚜虫 *Pieris rapae*, *Plutella xylostella*, *Aphis* sp.	谭增权, 2016 Tan, 2016
龙胆 *Gentiana manshurica*	东方绢金龟、黄曲条跳甲 *Serica orientalis*, *Phyllotreta striolata*	肖秀屏等, 2015 Xiao et al., 2015
细辛 *Asarum* spp.	中华虎纹蝶、黑菌虫、栎兰天牛 *Luehdorfia chinensis*, *Alphitobius diaperinus*, *Dere thoracica*	王宗信等, 1988; 胡鑫等, 2020; 张英明, 2020 Wang et al., 1988; Hu et al., 2020; Zhang, 2020
黄柏 *Cortex phellodendri*	黑金凤蝶、牡蛎蚧、蚜虫 *Papilio protenor*, *Lepidosaphes fubulorum*, *Aphis* sp.	杨志勤, 2018 Yang, 2018
乌梅 *Prunus mume*	一点谷螟、印度谷螟、粉斑螟、桃粉蚜、桃红颈天牛、肩角薪甲、药材甲 *Aphomia gularis*, *Plodia interpunctella*, *Ephestia cautella*, *Hyalopterus arundinis*, *Aromia bungi*, *Coninomus* sp., *Stegobium paniceum*	王宗信等, 1988; 黄海, 2017 Wang et al., 1988; Huang, 2017

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
川芎 *Ligusticum chuanxiong*	印度谷螟、地中海粉螟、宽齿爪鳃金龟、烟草甲、大谷盗、长角扁谷盗、咖啡豆象、白腹皮蠹、锯谷盗、赤足郭公虫、日本蛛甲、裸蛛甲、米象、毛蕈甲 *Plodia interpunctella*, *Ephestia kuehniella*, *Holotrichia lata*, *Lasioderma serricorne*, *Tenebroides mauritanicus*, *Cryptolestes pusillus*, *Araecerus fasciculatus*, *Dermestes maculatus*, *Oryzaephilus surinamensis*, *Necrobia rufipes*, *Ptinus japonicus*, *Gibbium psylloides*, *Sitophilus oryzae*, *Typhaea stercorea*	关群，1982；江镇涛等，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988；张帅等，2016 Guan, 1982; Jiang et al., 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016
桑葚 *Morus alba*	桑尺蠖、桑毛虫、桑木虱、桑天牛、花斑皮蠹、椭圆薪甲、扁薪甲、锈赤扁谷盗、姬粉盗、桑葚瘿蚊 *Phthonandria atrilineata*, *Porthesia xanthocampa*, *Anomoneura mori*, *Apriona germari*, *Trogoderma variabile*, *Holoparanecus ellipticus*, *Holoparamecus depressus*, *Cryptolestes ferrugineus*, *Palorus ratzeburgi*, *Contarinia* sp.	关群，1982；古金房和林若文，1986；王宗信等，1988；李玉香，2018；朱贤芳，2021；姬相云和赵晓，2022 Guan, 1982; Gu & Lin, 1986; Wang et al., 1988; Li, 2018; Zhu, 2021; Ji & Zhao, 2022
川明参 *Chuanminshen violaceum*	大谷盗、阔角谷盗、酱曲露尾甲、窗虻 *Tenebroides mauritanicus*, *Gnathocerus cornutus*, *Carpophilus hemipterus*, *Scenopinus fenestralis*	王宗信等，1988 Wang et al., 1988
佛手 *Citrus medica*	桃蛀螟、一点谷螟、米织蛾、药材甲、锈赤扁谷盗、毛蕈甲、玉带郭公虫 *Dichocrosis punetiferalis*, *Aphomia gularis*, *Anchonoma xeraula*, *Stegobium paniceum*, *Cryptolestes ferrugineus*, *Typhaea stercorea*, *Tarsostenus univittatus*	关群，1982；江镇涛等，1982；王宗信等，1988；许彦等，2021 Guan, 1982; Jiang et al., 1982; Wang et al., 1988; Xu et al., 2021
姜黄 *Curcuma longa*	亚洲玉米螟、一点谷螟、小地老虎、尘虱 *Ostrinia furnacalis*, *Aphomia gularis*, *Agrotis ipsilon*, *Trogium pulsatorium*	江镇涛等，1982；张祖铭，2020 Jiang et al., 1982; Zhang, 2020
浙贝母 *Fritillaria thunbergii*	铜绿丽金龟、苹毛丽金龟、暗黑鳃金龟、棕色鳃金龟、沟金针虫、锯谷盗、杂拟谷盗、药材甲、华北蝼蛄 *Anomala corpulenta*, *Proagopertha lucidula*, *Holotrichia parallela*, *Holotrichia titanis*, *Pleonomus canaliculatus*, *Oryzaephilus surinamensis*, *Tribolium confusum*, *Stegobium paniceum*, *Gryllotalpa unispina*	李长安和郭文菊，1987；王宗信等，1988；张帅等，2016 Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016
小茴香 *Fructus foeniculi*	金凤蝶、胡萝卜微管蚜、茴香蚜、药材甲、日本蛛甲、蛞蝓 *Papilio machaon*, *Semiaphis heraclei*, *Aphis* sp., *Stegobium paniceum*, *Ptinus japonicus*, *Limax maximus*	关群，1982；古金房和林若文，1986；彭伟，2018；李晓微等，2019 Guan, 1982; Gu & Lin, 1986; Peng, 2018; Li et al., 2019
薏苡 *Coix lacryma-jobi*	黄毒蛾、亚洲玉米螟、紫斑谷螟、粟灰螟、东方黏虫、小地老虎、麦蛾、麦凹胫跳甲、烟草甲、赤拟谷盗、杂拟谷盗、仓潜、锯谷盗、米扁虫、米象、咖啡豆象、脊胸露尾甲、酱曲露尾甲、干果露尾甲、土耳其扁谷盗、稻管蓟马、普通肉食螨、酪阳历螨 *Euproctis* sp., *Ostrinia furnacalis*, *Pyralis farinalis*, *Chilo infuscatellus*, *Mythimna separata*, *Agrotis ipsilon*, *Sitotroga cerealella*, *Chaetocnema ingenua*, *Lasioderma serricorne*, *Tribolium castaneum*, *Tribolium confusum*, *Mesomorphus villiger*, *Oryzaephilus surinamensis*, *Ahasverus advena*, *Sitophilus oryzae*, *Araecerus fasciculatus*, *Carpophilus dimidians*, *Carpophilus hemipterus*, *Carpophilus mutilatus*, *Cryptolestes turcicus*, *Haplothrips aculeatus*, *Cheyletus eruditus*, *Andorolaelaps casalis*	关群，1982；江镇涛等，1982；李长安和郭文菊，1987；王宗信等，1988；章国，2015；谢世勇和黄建成，2022；韦兰，2024 Guan, 1982; Jiang et al., 1982; Li & Guo, 1987; Wang et al., 1988; Zhang, 2015; Xie & Huang, 2022; Wei, 2024
生姜 *Zingiber oficinale*	甜菜夜蛾、小地老虎、斜纹夜蛾、银纹夜蛾、八字地老虎、黄地老虎、东方黏虫、甘蓝夜蛾、二点委夜蛾、棉铃虫、草地贪夜蛾、亚洲玉米螟、桃蛀螟、菜粉蝶、甘薯天蛾、豆天蛾、人纹污灯蛾、条纹艳苔蛾、铜绿丽金龟、华北大黑鳃金龟、沟金针虫、黄蓟马、烟蓟马、异型眼蕈蚊、茶黄螨 *Spodoptera exigua*, *Agrotis ipsilon*, *Spodoptera litura*, *Argyrogramma agnata*, *Agrotis c-nigrum*, *Agrotis segetum*, *Mythimna separata*, *Mamestra brassicae*, *Athetis lepigone*, *Helicoverpa armigera*, *Spodoptera frugiperda*, *Ostrinia furnacalis*, *Dichocrosis punetiferalis*, *Pieris rapae*, *Agrius convolvuli*, *Clanis bilineata*, *Spilarctia subcarnea*, *Asura strigipennis*, *Anomala corpulenta*, *Holotrichia oblita*, *Pleonomus canaliculatus*, *Thrips flavus*, *Thrips alliorum*, *Phyxia scabiei*, *Polyphagotarsonemus latus*	贾汝金，2017；李立国等，2020；包佳媛等，2021；姜文凤，2021；黄艳琴和张军霞，2021；太红坤等，2022；黄伟波等，2023 Jia, 2017; Li et al., 2020; Bao et al., 2021; Jiang, 2021; Huang & Zhang, 2021; Tai et al., 2022; Huang et al., 2023
红花 *Carthamus tinctorius*	紫斑谷螟、白星花金龟、洋虫、大谷盗、锯谷盗、大眼锯谷盗、隆胸露尾甲、美洲斑潜蝇、南美斑潜蝇、油菜潜叶蝇、番茄斑潜蝇、圆腹无缝拟蝎 *Pyralis farinalis*, *Potosia brevitarsis*, *Ulomoides dermestoides*, *Tenebroides mauritanicus*, *Oryzaephilus surinamensis*, *Oryzaephilus mercator*, *Carpophilus obsoletus*, *Liriomyza sativae*, *Liriomyza huidobrensis*, *Phytomyza horticola*, *Liriomyza bryoniae*, *Chelifer* sp.	关群，1982；古金房和林若文，1986；李长安和郭文菊，1987；王宗信等，1988；张帅等，2016；许兰杰等，2020 Guan, 1982; Gu & Lin, 1986; Li & Guo, 1987; Wang et al., 1988; Zhang et al., 2016; Xu et al., 2020

续表 1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
花椒 *Zanthoxylum bungeanum*	花椒凤蝶、玉带凤蝶、达摩凤蝶、玉斑凤蝶、宽带凤蝶、碧凤蝶、波绿凤蝶、蓝凤蝶、绿带翠凤蝶、巴黎翠凤蝶、金凤蝶、窄斑翠凤蝶、美凤蝶、榆木蠹蛾、樗蚕、山楂绢粉蝶、酪色绢粉蝶、珂灰蝶、大蓑蛾、茶袋蛾、黄连木尺蛾、油桐尺蠖、大造桥虫、黄连木尺蛾、咖啡豹蠹蛾、芳香木蠹蛾东方亚种、荔枝拟木蠹蛾、桃蛀螟、桑螟、小地老虎、黄地老虎、黄刺蛾、青刺蛾、花椒潜叶蛾、盗毒蛾、花椒蚜虫、棉蚜、橘蚜、华麦蝽、麻皮蝽、北曼蝽、日本真蝽、稻绿蝽、茶翅蝽、赤条蝽、宽碧蝽、斑须蝽、斑衣腊蝉、八点广翅蜡蝉、吹绵蚧、草履蚧、角软蜡蚧、扁平球坚介壳虫、瘤坚大球蚧、柑橘绿绵蚧、柑橘木虱、温室白粉虱、白背飞虱、花椒棉粉蚧、槭树绵粉蚧、白蜡绵粉蚧、康氏粉蚧、杨白片盾蚧、梨圆盾蚧、桑白蚧、黑蜕白轮蚧、花壮异蝽、角红长蝽、黑盾肿腮长蝽、淡边地长蝽、红脊长蝽、草盲蝽、斯氏后丽盲蝽、绿盲蝽、筛豆龟蝽、点蜂缘蝽、锈赭缘蝽、蜀凹大叶蝉、蟪蛄、蚱蟟、螂蝉、蚱蝉、细胸金针虫、沟金针虫、华北大黑鳃金龟、暗黑鳃金龟、东方绢金龟、鲜黄鳃金龟、小黄鳃金龟、小云鳃金龟、大云斑鳃金龟、大栗鳃金龟、小青花金龟、褐锈花金龟、白星花金龟、苹毛丽金龟、铜绿丽金龟、黄褐丽金龟、四纹丽金龟、栗色丽金龟、花椒啮齿跳甲、红胫潜跳甲、枸橘潜跳甲、铜色潜跳甲、花椒潜跳甲、蓝橘潜跳甲、四斑萤叶甲、裸顶丝跳甲、缝斑叶甲、柳蓝叶甲、黄狭条跳甲、杞柳跳甲、油菜跳蚤甲、黄守瓜、枸杞龟甲、花椒窄吉丁、花椒吉丁虫、茄二十八星瓢虫、中华萝藦肖叶甲、金缘甘薯叶甲、多露象、暗褐圆筒象甲、榆跳象、花椒长足象、臭椿沟眶象、米象、大灰象甲、花椒长角象鼻虫、花椒球胸象、荚迷梢小蠹、核桃咪小蠹、橘褐天牛、花椒虎天牛、薄翅锯天牛、六斑虎天牛、花椒复纹狭天牛、双簇污天牛、白芒锦天牛、家茸天牛、帽斑天牛、星天牛、光肩星天牛、黄斑星天牛、二斑黑绒天牛、黄带黑绒天牛、黄带虎天牛、桃红颈天牛、红缘天牛、茸天牛、光绿橘天牛、花椒跗虎天牛、华北蝼蛄、东方蝼蛄、北京油葫芦、短额负蝗、黄脊螽斯、日本弓背蚁、花椒波瘿蚊、山楂叶螨、花椒全爪螨、侧多食跗线螨、花椒谢氏瘿螨、条华蜗牛、射带蜗牛、寻常卷甲虫 *Papilio xuthus*, *Papilio polytes*, *Papilio demoleus*, *Papilio helenus*, *Papilio nephelus*, *Papilio bianor*, *Papilio polyctor*, *Papilio protenor*, *Papilio maackii*, *Papilio paris*, *Papilio machaon*, *Papilio arcturus*, *Papilio memnon*, *Holcocerus vicarius*, *Philosamia cynthia*, *Aporia crataegi*, *Aporia potanini*, *Cordelia comes*, *Clania variegata*, *Clania minuscula*, *Culcula panterinaria*, *Buzura suppressaria*, *Ascotis selenaria, Culcula panterinaria*, *Zeuzera cofeae*, *Cossus orientalis*, *Arbela dea*, *Dichocrosis punetiferalis*, *Diaphania pyloalis*, *Agrotis ipsilon*, *Agrotis segetum*, *Cnidocampa flavescens*, *Parasa consocia*, *Phyllocnistis citrella*, *Porthesia similis*, *Myzus malisutus*, *Aphis gossypii*, *Toxoptera citricidus*, *Aeliana suta*, *Erthesina fullo*, *Menida scotti*, *Pentatoma japonica*, *Nezara viridula*, *Halyomorpha halys*, *Graphosoma rubrolineatum*, *Palomena viridissima*, *Dolycoris baccarum*, *Lycorma delicatula*, *Ricania speculum*, *Icerya purchasi*, *Drosicha corpulenta*, *Coceus* sp., *Parthenolecanium corni*, *Eulecanium gigantean*, *Chloropulvinaria aurantii*, *Diaphorina citri*, *Trialeurodes vapoariorum*, *Sogatella furcifera*, *Phenacoccus azaleae*, *Phenacoccus aceris*, *Phenacoccus fraxinus*, *Pseudococcus comstocki*, *Lopholeucaspis japonica*, *Diaspidiotus perniciosus*, *Pseudaulacaspis pentagona*, *Macrosiphum rosivorum*, *Urochela luteovaria*, *Lygaeus hanseni*, *Arocatus fasciatus*, *Rhyparochromus adspersus*, *Tropidothorax elegans*, *Lygus pratensis*, *Apolygus spinolae*, *Apolygus lucorum*, *Megacopta cribraria*, *Riptortus pedestris*, *Ochrochira ferruginea*, *Bothrogonia qingaria*, *Platypleura kaempferi*, *Oncotympana maculicollis*, *Pomponia linearis*, *Cryptotympana atrata*, *Agriotes subvittatus*, *Pleonomus canaliculatus*, *Holotrichia oblita*, *Holotrichia parallela*, *Serica orientalis*, *Metabolus tumidifrons*, *Metabolus flavescens*, *Polyphylla gracilicornis*, *Polyphylla laticollis*, *Melolontha hippocastani*, *Gametis jucunda*, *Trematodes tenebrioides*, *Potosia brevitarsis*, *Proagopertha lucidula*, *Anomala corpulenta*, *Anomala exoleta*, *Popillia quadriguttata*, *Adoretus* sp., *Clitea shlrahatai*, *Podagricomela flavitibialis*, *Podagricomela weisei*, *Podagricomela cuprea*, *Podagricomela shirahatai*, *Podagricomela cyanea*, *Monolepta signata*, *Hespera sericea*, *Chrysome lapopuli*, *Plagiodera versicolora*, *Phyllotreta vittula*, *Altica weisei*, *Psylliodes punctifrons*, *Aulacophora femoralis*, *Cassida deltoides*, *Agriluszan thoxylumi*, *Agrilus zanthoxylumi*, *Henosepliachna vigintioctopunctata*, *Chrysochus chinensis*, *Colasposma metallicum*, *Polydrosus chinensis*, *Macrocorynus capito*, *Rhynchaenus alni*, *Alcidodes sauteri*, *Eucryptorrhynchus brandti*, *Sitophilus oryzae*, *Sympiezomias velatus*, *Cyrtotrachulus* sp., *Piazomias* sp., *Cryphalus viburni*, *Hypothenemus erectus*, *Nadezhdiella cantori*, *Clytus valiandus*, *Megopis sinica*, *Chlorophorus sexmaculatus*, *Stenhomalus comtlica*, *Moechotypa diphysis*, *Acalolepta floculata*, *Trichoferus campestris*, *Purpuricenus petasifer*, *Anoplophora chinensis*, *Anoplophoragla bripennis*, *Anoplophora nobilis*, *Strandia bimaculate*, *Embrikstrandia unifasciata*, *Calloidesma gnificus*, *Aromia bungi*, *Asias halodendri*, *Trichoferus* sp., *Chelidonium arentatum*, *Clytus validus*, *Gryllotalpa unispina*, *Gryllotalpa orientalis*, *Teleogryllus mitratus*, *Atractomorpha sinensis*, *Derecantha* sp., *Camponotus japonicus*, *Asphondylia zathoyli*, *Tetranychus viennensis*, *Panonychus citri*, *Polyphagotarsonemus latus*, *Shevtchenkella zanthoxylum*, *Cathaica fasciola*, *Laeocathaica* sp., *Armadillidium vulgare*	杨远兵等，2015；卢凯洁等，2016；孙双等，2017；车显荣，2018；颜东昇，2018；赵娜娜，2018；刘朝茂等，2020；付志明，2022；韩富军等，2022；陈国亮，2023；吴跃开等，2023；马华龙和马松珠，2024；游国防，2024 Yang et al., 2015; Lu et al., 2016; Sun et al., 2017; Che, 2018; Yan, 2018; Zhao, 2018; Liu et al., 2020; Fu, 2022; Han et al., 2022; Chen, 2023;Wu et al., 2023; Ma & Ma, 2024; You, 2024
罗布麻 *Apocynum venetum*	罗布麻蚜、罗布麻绿肖叶甲 *Aphis* sp., *Chrysochares punctatus*	冯润秋，2020 Feng, 2020

续表1 Continued

药用植物 Medicinal plant	害虫 Insect pest	参考文献 Reference
刺梨 *Rosa roxburghii*	梨小食心虫、茶小卷叶蛾、棉褐带卷蛾、茶长卷叶蛾、桃小食心虫、桃蛀螟、黄刺蛾、扁刺蛾枣、奕刺蛾、蚁舟蛾、大造桥虫、油桐尺蠖、青黄枯叶蛾、苹枯叶蛾、桑毛虫、戟盗毒蛾、弥黄毒蛾、黄尾毒蛾、梨豹蠹蛾、大蓑蛾、蔷薇白轮蚧、稻绿蝽、金绿宽盾蝽、红足壮异蝽、草履蚧、白条屈角蝉、凹大叶蝉、蔷薇拟陷脉叶蝉、增脉叶蝉、白带槽胫叶蝉、凹缘菱纹叶蝉、锯纹莫小叶蝉、三角辜小叶蝉、橘红丽沫蝉、月季长管蚜、梨二叉蚜、温室白粉虱、小猿叶虫、泡桐叶甲、墨绿彩丽金龟、曲带弧丽金龟、无斑弧丽金龟、黄褐丽金龟、华北大黑鳃金龟、琉璃弧丽金龟、小青花金龟、异斑象天牛、普通角伪叶甲、红头芫菁、蔷薇三节叶蜂、截叶糙颈螽、橘小实蝇、锈壁虱 *Grapholita molesta*, *Adorophyes orana*, *Adoxophyes orana*, *Homona nietne*, *Carposina sasakii*, *Dichocrosis punetiferalis*, *Cnidocampa flavescens*, *Thosea sinensts*, *Irsgoides conjuncta*, *Stauropus* sp., *Ascotis selenaria*, *Buzura suppressaria*, *Trabala vishnou*, *Odonestis pruni*, *Porthesia xanthocampa*, *Porthesia kurosawai*, *Euproctis dispersa*, *Sphrageidus similis*, *Zeuzera pyrina*, *Clania variegata*, *Aulacaspis rosae*, *Nezara viridula*, *Poecilocoris lewisi*, *Urochela quadrinotata*, *Drosicha corpulenta*, *Anchon lineatus*, *Bothrogonia ferruginea*, *Sophonia rosea*, *Kutara brunnescens*, *Drabescus conspicuous*, *Hishimonus sellatus*, *Motschulskyia serrata*, *Aguriahana triangularis*, *Cosmoscarta mandarina*, *Macrosiphum rosirvorum*, *Schizaphis piricola*, *Trialeurodes vapoariorum*, *Phaedon brassicae*, *Basiprionota bisignata*, *Mimela splendens*, *Popillia pustulata*, *Popillia mutans*, *Anomala exoleta*, *Holotrichia oblita*, *Popillia flavosellata*, *Gametis jucunda*, *Mesosa stictica*, *Cerogria popularis*, *Epicauta ruficeps*, *Arge geei*, *Ruidocollaris truncata*, *Bactrocera dorsalis*, *Phyllocoptruta oleivora*	黄文源等，2020；胡红等，2023；班帅英，2024；赵灏，2024 Huang et al., 2020; Hu et al., 2023; Ban, 2024; Zhao, 2024
钩藤 *Uncaria* sp.	钩藤茜细蛾、大褐斑小卷蛾、棉蚜、润楠皮粉虱、淡灰瘤象、豆蓝丽金龟子、烟草甲 *Corythoxestis sunosei*, *Semnostola magnifica*, *Aphis gossypii*, *Pealius machili*, *Dermatoxenus caesicollis*, *Popillia mutans*, *Lasioderma serricorne*	关群，1982；陈小均等，2020；姜中峰等，2020；张柱亭等，2020 Guan, 1982; Chen et al., 2020; Jiang et al., 2020; Zhang et al., 2020

3 药用植物生产过程中虫害频发的原因

首先，药用植物营养丰富且含有特殊的挥发性化合物，很容易吸引害虫。其次，药用植物的种植规模发展过快且缺乏配套的种植模式导引，在2011—2020年药用植物的种植面积较过去增加了近一倍，盲目引种而不考虑药材道地性的现象严重，长期连作导致土地营养成分比例失衡，药用植物种植区生物多样性降低，害虫成为优势物种（万修福等，2022）。此外，种植户缺乏植保意识和综合防控意识，盲目用药导致害虫抗药性增加，防控难度加大，同时也带来了药用植物农药残留超标的现实问题。

4 药用植物害虫的绿色防控技术

药用植物害虫绿色防控技术旨在通过多种方式有效控制害虫种群数量，并减少化学农药的使用。绿色防控技术包括物理防治、生物防治等。物理防治是利用物理因素防治害虫，如对仓储药材进行低温处理可以有效减少害虫对药材的损害（蒋玉丽等，2025），田间使用黑光灯、糖醋液等可以有效诱杀趋性害虫（赵灏，2024）。适量释放害虫天敌可以扩充田间物种多样性，形成"以虫治虫"的生物防治体系，对于蛀茎害虫如菊花天牛 *Phytoecia rufiventris* 可以通过释放天敌管氏肿腿蜂 *Sclerodermus guani* 进行防治；而食蚜蝇、草蛉则适用于控制蚜虫种群（陈元生，2007；林凯特等，2024），捕食性瓢虫和草蛉可以控制叶螨的种群数量（郭俊帅，2024）。此外，改良土壤、间作套种，抑或使用纳米载体结合化学农药在一定程度上都可以减少害虫种群数量和化学农药使用量（周茂嫦等，2024）。部分中药材自身的次生代谢产物也可以抵御害虫的侵染，如苦参碱、莨菪碱、百部碱、小檗碱等已被证明对鳞翅目、鞘翅目、半翅目的多种害虫具有防控作用（林凯特等，2024）。

5 展望

目前药用植物害虫研究已有一定进展，这为害虫识别防治提供了重要基础，但有些问题仍急需解决。一是药用植物有害生物调查不平衡、不充分，许多大面积种植区及部分特殊生态区如西藏自治区和海南省等的药用植物尚未开展重大害虫发生种类的调查研究；二是与农作物害虫防控相比，药用植物领域还局限于害虫种类调查，关于害虫发生规律、为害特点及防控策略的研究很少；三是药用植物农药登记产品少，存在种类重复、登记与实际使用情况不符、违规使用高毒与禁用农药等现象。针对以上问题，未来应在加强对药用植物害虫调查的基础上，明确重要害虫的发生、发展及演替规律，建立健全药用植物监测预警体系，以期为药用植物害虫防治提供

更全面的指导,助力提升我国药用植物的质量安全。

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