

研究报告

不同诱捕技术对松褐天牛的诱捕效果

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摘要

通过不同引诱剂、不同诱芯、不同诱捕器和不同缓释量对松褐天牛的诱捕试验,结果表明,4种引诱剂对松褐天牛都有一定的引诱效果.其中,引诱剂MA2K 05的效果最好,引诱活性平均为26.3头/诱捕器,对其它鞘翅目和半翅目昆虫也有引诱作用;引诱剂MA2K 13活性次之,平均21.3头/诱捕器;MA2K 11最弱,平均13.8头/诱捕器.3种诱芯A、B和C的引诱效果分别为14.73、4.25和20.3头/诱捕器,其中诱芯C内引诱剂总量为诱芯A或诱芯B的2.5倍,且诱芯C内的引诱剂3~5 d需添加一次,而诱芯A和诱芯B的引诱活性能持续1个月以上,因此,诱芯B较为理想.宣州诱捕器引诱效果显著高于日式诱捕器,分别为36.4和9.7头/诱捕器.不同剂量诱捕结果表明,随着诱芯缓释量的增加,诱捕效果也相应提高,当剂量从20 ml上升至80 ml时,诱捕效果增加不显著;当诱剂达120 ml时,引诱效果显著增加.

关键词 [引诱剂; 诱捕器; 诱芯; 松褐天牛](#)

分类号

Field attraction effects of different trapping methods on *Monochamus alternatus*

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Abstract

A comparative study on the field attraction effects of different attractant, trap, lure and controlled-releasing amount on *Monochamus alternatus* showed that four test attractants had a certain trapping ability to *Monochamus alternatus*, among which, MA2K05 was the strongest, with a mean capture efficiency of 26.3 individuals each trap and being attractive to other species of Coleoptera and Hemiptera; MA2K13 took the second place, with 21.3 individuals each trap; while MA2K11 was the weakest, with 13.8 individuals each trap. Among the three lures tested, lures C (60 ml plastic cup with 2 of 5 cm round holes on the cover) and B (20 ml specified controlled-releasing plastic bottle) had a comparatively stronger effect, with a capture efficiency of 34.25 and 20.3 individuals each trap, respectively; while lure A (20 ml specified controlled-releasing plastic bottle, the releasing amount being smaller than that of lure B) was the weakest, with 14.7 individuals each trap. Because the attractant volume of lure C was 1.5 times larger than that of lures B and A, and the attractant for lure C was appended every 3~5 d, while that for lures B and A could be used for more than a month with once appended, lure B was the best on the whole. As for the test traps, Xuanzhou trap was superior to imitated Japanese trap, with a trapping efficiency of 36.4 and 9.7 individuals each trap, respectively. The attractiveness of attractants was not significantly

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enhanced when the dosage was increased from 20 ml to 80 ml, but significantly improved when it was up to 120 ml.

Key words [Attractant](#) [Trap](#) [Lure](#) [Monochamus alternatus](#)

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