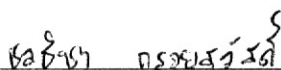


Chonticha Kruysawat 2008: Effects of 1-Methylcyclopropene (1-MCP) on Interior Display Life of 4 Flowering Shrubs. Master of Science (Agriculture), Major Field: Horticulture, Department of Horticulture. Thesis Advisor: Associate Professor Alisara Menakanit, Ph.D. 119 pages.

Effects of 1-Methylcyclopropene (1-MCP) on interior display life of 4 flowering shrubs were studied. The selected plants *Otacanthus caeruleus* A. Ronse, *Wrightia antidysenterica* R.Br., *Ixora coccinea*, *Ixora hybrid* were use in the experiments. Plants were produced in commercial nurseries. After arrival from the nurseries 1-Methylcyclopropene of 0, 100, 200, 300 and 400 nl/l were treated on treatments in closed chamber for 6 hours at 30 °C, after that the plants were placed immediately in the controlled interior environment at 25 ± 2 °C temperature and 65 ± 2% relative humidity. The plants were exposed to an environment similar to that in exhibition halls with 8 hours daily light from cool white fluorescent lamps providing 0.5-2 μmolm⁻²s⁻¹. The results showed that 1-MCP extended the interior display life of *Otacanthus caeruleus* A. Ronse, *Wrightia antidysenterica* R.Br. and *Ixora coccinea*. The 200 nl/l 1-MCP extended the display life of *Otacanthus caeruleus* A. Ronse and *Wrightia antidysenterica* R.Br. 4.5 and 2.7 days respectively. The 400 nl/l 1-MCP extended the display life of *Ixora coccinea* 4.2 days. 1-MCP, however, showed no effect on *Ixora hybrid*.



Student's signature



Thesis Advisor's signature

19 / 9 / 2008