

# Studies on the Integrated Control of Diseases and Insect pests for Guava<sup>1</sup>

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## Abstract

The guava is an important economic fruit in Taiwan. A total planted area was 6,285ha and the production was 145,022 tons per year in the whole island. The planted area of Kaohsiung District occupied about 40.0 % in Taiwan. Eight major diseases and nine pests of guava were found in this study. The occurrence periods of the diseases were as follows : 1.guava wilt (from JAN. to DEC.); 2.guava scab (from JAN. to AUG,OCT. to DEC.); 3.guava phytophthora fruit rot (from FEB. to JUL. and SEP. to OCT.) ;4.guava anthracnose usually occurred at ripe fruit (JAN.,FEB.,JUL. and from OCT. to DEC.);5.sooty mold (from OCT. to DEC. and JAN .to FEB.) ; 6.red rust (from JUL .to SEP.); 7.root knot nematodes (from JAN. to DEC.) and 8.rootlesion nematodes (from JAN. to DEC) . In addition , the occurrence periods of insect pests of guava were as follows : 1.oriental fruit fly (from MAY to NOV.); 2.cotton aphid (from JAN. to FEB. and DEC.) 3.spiraling whitefly (from APR. to MAY and SEP. to DEC.) ;4.guava mealy bug (from SEP. to DEC.and JAN. to FEB.); 5.guava grape-vine thrip (from MAY to JUL. and NOV. to DEC.); 6.flower thrip (from MAY. to JULY and NOV. to DEC.) ; 7.guava black whitefly (from JAN. to DEC.); 8.leafroller (from JUL. to SEP.) and 9.smaller green leafhopper (from JUN. to AUG.). Chemical control of guava scab, anthracnose, phytophthora fruit rot, cotton aphid , spiraling whitefly ,guava black whitefly and guava grape-vine thrip of guava had been studied, respectively . Based these data, the control calendar for diseases and pests of guava had been established. Key words: guava, diseases and pests ,integrated control.

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