

TABLE OF CONTENTS

PREFACE..... vi

HARDWOOD DEFOLIATORS 1

- FALL CANKERWORM—*Alsophila pometaria*; SPRING CANKERWORM—*Paleacrita vernata*
MOURNINGCLOAK BUTTERFLY (Spiny-elm caterpillar)—*Nymphalis antiopa*
NEVADA BUCK MOTH—*Hemileuca nevadensis*
GREENSTRIPED MAPLEWORM—*Dryocampa rubicunda*
VARIABLE OAKLEAF CATERPILLAR—*Heterocampa manteo*
FRUITTREE LEAFROLLER—*Archips argyrospilus*
FOREST TENT CATERPILLAR—*Malacosoma disstria*
PRAIRIE TENT CATERPILLAR—*Malacosoma californicum lutescens*; EASTERN TENT CATERPILLAR—*M. americanum*
FALL WEBWORM—*Hyphantria cunea*
UGLYNEST CATERPILLAR—*Archips cerasivorana*
MIMOSA WEBWORM—*Homadula anisocentra*
ELM SAWFLY—*Cimbex americana*
SAWFLIES—*Nematus* spp.
PEAR SAWFLY (PEAR SLUG)—*Caliroa cerasi*
ELM LEAF BEETLE—*Pyrrhalta luteola*
COTTONWOOD LEAF BEETLE—*Chrysomela scripta*
CARAGANA BLISTER BEETLE—*Epicauta subglabra*;
ASHGRAY BLISTER BEETLE—*E. fabricii*
GRASSHOPPERS—*Melanoplus* spp.
ASPEN BLOTCHMINER—*Phyllonorycter tremuloidiella*
ASPEN LEAFMINER—*Phyllocnistis populiella*
POPLAR BLACK MINE BEETLE—*Zengophora scutellaris*

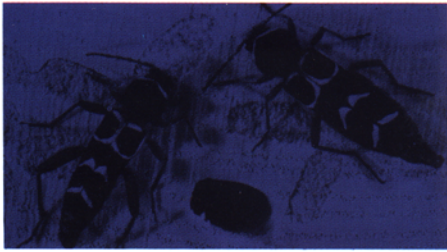
CONIFER DEFOLIATORS 10

- SPRUCE NEEDLEMINER—*Endothenia albolineana*
PINE NEEDLE SHEATHMINER—*Zelleria haimbachi*
CEDAR WEBWORM—*Cudonigera houstonana*
JACK PINE BUDWORM—*Choristoneura pinus*
PINE TIGER MOTH—*Lophocampa ingens*
BAGWORM—*Thyridopteryx ephemeraeformis*
PINE SAWFLIES—*Neodiprion* spp.
YELLOWHEADED SPRUCE SAWFLY—*Pikonema alaskensis*
BLACK VINE WEEVIL—*Otiorhynchus sulcatus*
CARAGANA BLISTER BEETLE—*Epicauta subglabra*;
ASHGRAY BLISTER BEETLE—*E. fabricii*
GRASSHOPPERS—*Malanoplus* spp.

HARDWOOD BORERS..... 15

- NATIVE ELM BARK BEETLE—*Hylurgopinus rufipes*;
SMALLER EUROPEAN ELM BARK BEETLE—*Scolytus multistriatus*
ASH BARK BEETLES—*Hylesinus* spp.
BOXELDER TWIG BORER—*Proteoteras* spp.
CARPENTERWORM—*Prionoxystus robiniae*
LILAC (ASH) BORER—*Podosesia syringae*; BANDED ASH CLEARWING—*P. aureocincta*
PEACHTREE BORER—*Synanthedon pictipes*; LESSER PEACHTREE BORER—*S. exitiosa*
CLEARWING BORERS: VIBURNUM BORER—*Synanthedon viburni*; CURRANT BORER—*S. tipuliformis*





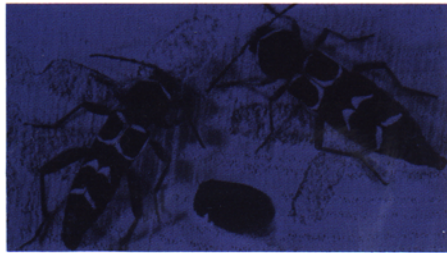
HARDWOOD BORERS..... 15

- COTTONWOOD BORER—*Plectrodera scalator*
- POPLAR BORER—*Saperda calcarata*
- LOCUST BORER—*Megacyllene robiniae*
- REDHEADED ASH BORER—*Neoclytus acuminatus*; BANDED ASH BORER—*N. caprea*
- ASPEN ROOT GIRDLER—*Agrilus horni*



CONIFER BORERS..... 22

- PINETIP MOTHS: NANTUCKET—*Rhyacionia frustrana*, SOUTHWESTERN—*R. neomexicana*, WESTERN—*R. bushnelli* and other *Rhyacionia* spp.
- WESTERN PINE SHOOT BORER—*Eucosma sonomana*
- METALLIC PINE PITCH NODULE MAKER—*Retinia metallica*
- WHITE PINE WEEVIL—*Pissodes strobi*
- ZIMMERMAN PINE MOTHS—*Dioryctria ponderosae*, *D. tumicolella*, and *D. zimmermani*
- PINE ROOT COLLAR WEEVIL—*Hylobius radialis*
- PINE BARK BEETLES—*Ips grandicollis*, *I. calligraphus*, *I. pini*, *Ips* spp., *Dendroctonus ponderosae*, *D. valens*, and *Dendroctonus* spp.
- CEDAR BARK BEETLES—*Phloeosinus* spp.
- CONIFER-INFESTING LONGHORNED BEETLES—*Monochamus* spp., *Semanotus* spp., *Xylotrechus* spp., and other *Cerambycidae*



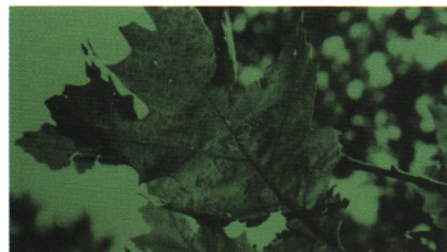
GALL INSECTS 28

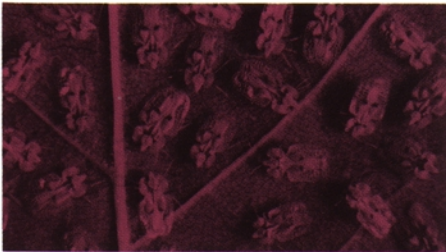
- ASH FLOWER GALL MITE—*Eriophyes fraxiniflora*
- POPLAR BUD GALL MITE—*Eriophyes parapopuli*
- HACKBERRY NIPPLEGALL MAKER—*Pachypsylla celtidismamma*; HACKBERRY BLISTERGALL MAKER—*P. celtidisvesicula*
- HACKBERRY BUDGALL PSYLLID—*Pachypsylla celtidisgemma*; HACKBERRY PETIOLEGALL PSYLLID—*P. venusta*
- POPLAR GALL APHIDS—*Pemphigus* spp.
- POPLAR VAGABOND APHID—*Mordvilkoja vagabunda*
- HONEYLOCUST POD GALL MIDGE—*Dasineura gleditschiae*
- OAK GALLS—CECIDOMYIIDAE and CYNIPIDAE; OAK-APPLE GALL—*Amphibolips confluenta*
- COOLEY SPRUCE GALL ADELGID—*Adelges cooleyi*
- GOUTY PITCH MIDGE (BIRD'S-EYE PINE MIDGE OR PONDEROSA PINE RESIN MIDGE)—*Cecidomyia piniinopis*



HARDWOOD SAPSUCKING INSECTS..... 33

- BOXELDER APHID—*Periphyllus negundinis*
- BLACK WILLOW APHID—*Pterocomma smithiae*
- CARAGANA APHID—*Acyrtosiphon caraganae*
- WOOLLY ELM APHID—*Eriosoma americanum*; WOOLLY APPLE APHID—*E. lanigerum*
- HONEYSUCKLE WITCHES'-BROOM AHPID—*Hyadaphis tataricae*
- EUROPEAN ELM SCALE—*Gossyparia spuria*
- LECANIUM SCALES—*Parthenolecanium* spp.
- OYSTERSHELL SCALE—*Lepidosaphes ulmi*
- BOXELDER BUG—*Leptocoris trivittatus*
- ASH PLANT BUG—*Tropidosteptes amoenus*; HONEYLOCUST PLANT BUG—*Diaphnocoris chlorionis*
- LACE BUGS—*Corythucha* spp., and *Gargaphia* spp.
- SPIDER MITES—*Oligonychus* spp., *Tetranychus* spp., and *Eotetranychus* spp.





- SPIDER MITES**—*Oligonychus spp.*, *Tetranychus spp.*, and *Eotetranychus spp.*
- PINE NEEDLE SCALE**—*Chionaspis pinifoliae*
- PINE BARK ADELGID**—*Pineus strobi*
- GIANT CONIFER APHIDS**—*Cinara spp.*
- SPITTLEBUGS**—*Aphrophora spp.*, and *Clastoptera spp.*
- LECANIUM SCALES**—*Parthenolecanium spp.*

- COMMON AND SCIENTIFIC NAMES OF INSECT PESTS..... 41**
- HOST PLANTS WITH SCIENTIFIC EQUIVALENTS..... 42**
- SELECTED REFERENCES..... 43**
- PESTICIDE PRECAUTIONARY STATEMENT 44**
- LIST OF INSECTICIDES BY COMMON AND REGISTERED TRADE NAMES..... 44**
- FOOTNOTE..... 44**

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PREFACE

This publication was developed by entomologists on the Pest Management Task Force of the Great Plains Agricultural Council Forestry Committee to provide the public and professionals with information needed to identify and manage common insect pests of trees in the Great Plains. It is designed for those with no formal training in entomology and is not intended to summarize everything known about a particular insect.

Insect pests of hardwoods and conifers are arranged according to damage category. Hardwood trees annually shed their leaves in the fall; conifer trees annually shed only their oldest needles and retain the current year’s needles. Defoliators feed on the leaves and needles. Borers mine buds, sapwood, and inner bark (between sapwood and the bark). Sapfeeding insects extract sap from leaves, needles, branches and trunks. Feeding by gall insects causes leaves, buds, and branches to grow abnormally.

Because pesticide registrations are rapidly changing, only pesticides that mention a specific pest and host were included in the control recommendations. Current information on when pesticides are needed, pesticide registration, local use pesticides, and pesticide application can be obtained from your local agricultural extension specialists.