

Dormant oil sprays make good insect control

NEWARK, Del. — Dormant oil sprays are an excellent way to control several kinds of overwintering insect on woody plants. These highly refined petroleum oils help kill pests like aphids, mealybugs, scale and mites that spend the winter as eggs in cracks and crevices of plants.

Contact by the oil kills eggs in two ways First,

through suffocation by interfering with oxygen transfer through the egg wall. The oil also dissolves the protective waxy coating on eggs and thus interferes with their overwintering capacity. Treated eggs are more subject to the rigors of winter and less likely to survive.

People interested in non-pesticide management of

pest populations should be especially interested in dormant oil treatment, says University of Delaware extension entomologist Frank Boys.

The action of the oil is physical, not chemical. Chemical pesticides actually enter into the metabolism of an insect. Dormant oils, on the other hand, physically interfere with life support systems such as breathing and resistance to the elements.

Oils must be used, though, when the plant is not in leaf, as they can injure foliage—especially if they are applied to newly emerged plant material. This is why they are called dormant oils.

Applied once a year during dormancy, they help reduce pest populations on many woody plants. For maximum control they need to be followed by a general chemical spray program during the growing season.

Most plants become

dormant in late October or early November and emerge the following March or April. They can be treated at any time during this period when the weather is going to remain mild with temperatures not lower than 40 degrees for about two days after.

A hard freeze immediately after oil has been applied can result in tissue burn of the bark.

All conditions are usually most dependable for dormant oil use, says Boys.

Oil sprays can be applied even before leaf drop is complete since proper temperatures are constant then and no loss occurs from leaf burn as the foliage is falling naturally then.

Spraying is also possible in late winter, but keep a close eye on weather conditions so that you don't get caught by a sudden drop in temperature after treatment.

One word of caution—not all plants can be treated safely with dormant oils. They should be avoided on sugar and Japanese maples, beech, hickory, walnut, butternut, birch, Atlas cedar, chamaecyparis, blue spruce and Douglas fir. Read the label for other use precautions and instructions.

Freund named farm management agent

YORK — Roland P. Freund, associate Cumberland County Extension agent on Penn State's staff, was named area Extension farm management agent, effective March 3.

Thomas B. King, Penn State associate dean for extension, points out that Freund will work closely with Extension agents in conducting educational farm management programs in Lancaster, Adams, Cumberland, Dauphin, Franklin, Lebanon, Perry, and York counties.

He is headquartered in the York County extension service office. Freund has been a member of the Cumberland County extension service staff since August 1976.

Born and raised in New Guinea, he was educated in

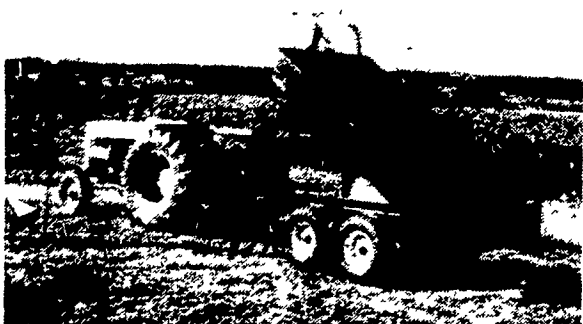
Australia, received a diploma of agriculture from Roseworthy Agricultural College and majored in animal science at the University of New England, New South Wales, Australia. He also earned a Master of Science degree in extension from Michigan State.

Prior to his appointment to the Penn State extension service staff, he was an agriculturist for the New Guinea Lutheran Mission, and Extension Officer, and lecturer in farm management at Vudal Agricultural College for the Department of Primary Industry, Papua, New Guinea.

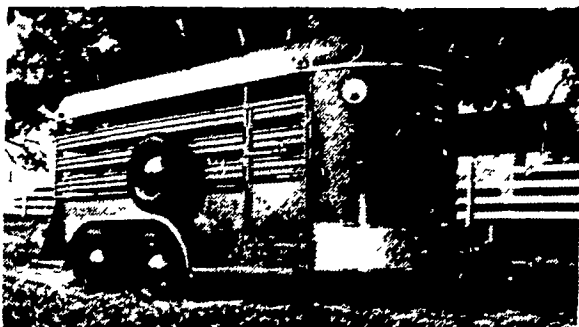
He is married to the former Josephine L. Bailey, of Indianapolis, Indiana. They are the parents of one son.

ATTENTION FARMERS AND TRUCKERS

GO

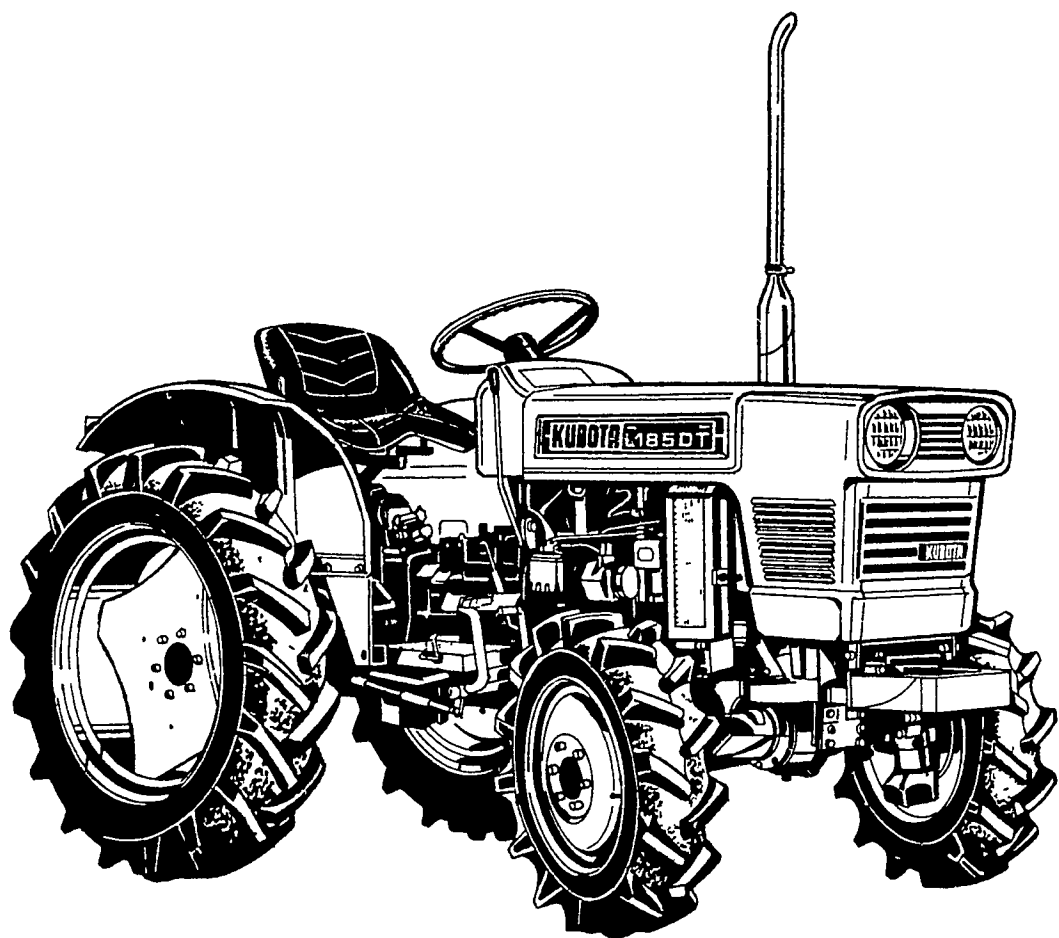


4 MODELS AVAILABLE. Our dumper trailers are designed for today's need on the farm, they can handle heavy loads and resist hard work.



STANDARD METAL TOP STOCK TRAILER AS SHOWN ABOVE COMES IN LENGTHS OF 14 & 16 FEET.

CHECK OUR PRICES BEFORE YOU BUY
FISHER & STOLTZFUS TRAILER SALES
Call 717-354-0233 or 717-768-3832
East of New Holland, PA



All-around worker.

The Kubota L185 is a very accomplished tractor. It is useful for chores on a large farm that a larger tractor would be wasted on. And it can be used for mowing, earth moving, excavating, and many other industrial uses.

The Kubota L185 has a category 1 hydraulic 3-point hitch, differential lock, position control, 8 forward and 2 reverse speeds. And its 17 hp engine runs on diesel fuel.

As the world supply of oil gets smaller and smaller, the advantages of a mid-size Kubota get larger and larger.

We're looking for work.

 **KUBOTA**

WE TAKE PRIDE IN SATISFYING CUSTOMERS — CALL KEN BURKHART

**FARMERSVILLE EQUIPMENT
INC.**

RD 4 Ephrata, PA

Hours: Mon., Tues., Wed., Fri. - 7:30 to 5:30; Thurs. til 9; Sat. til 3

717-354-4271

Spring Sale
\$ 100.00 Off
SUGGESTED RETAIL PRICE
**ON ALL MODELS OF FISHER
STOVES IN STOCK**



**BUY NOW
BEFORE THE FALL
INCREASES
AND SAVE**

**Fisher
Stoves**

Bowman's Stove Shop

R D 3, Naperville Road
Ephrata, PA 17522
Follow the signs from the
light at Hinkletown

Tues. Wed. Sat. 9-5
Thurs. Fri. 9-9
Closed Monday



717-733-4973

Financing Available

