

### FARM FOREST FACTS

BY BOB BRADLEY  
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Perhaps the love life of the Douglas fir bark beetle may prove to be its undoing. At least, the findings of Dr. J. A. Rudinsky, forest entomologist in the Oregon State University Agricultural Experiment Station, indicate this possibility.

Last year, Rudinsky found that beetles are drawn to new areas by an "attractive" substance produced by sexually mature, unmated females when they first invade a new log. The attractant produced by the "pioneers" causes mass invasions of beetles in a particular forest area.

**Only Fir Involved**  
The substance is produced by the "pioneers" only when they invade Douglas fir. Females do not produce the substance once they mate. The power of the attractant is important, he pointed out, because it is the key factor in concentrating beetle population.

This helps explain why the Douglas fir beetle can "break" the resistance of a healthy standing tree within a few hours, Dr. Rudinsky said. Although normally re-

sistant to beetle invasion, the healthy Douglas fir can be killed when large numbers of beetles respond to the attractant produced by the invading pioneers.

OSU researchers have been successful in isolating the attractive substance in alcohol and then using it as "bait" in the field olfactometers to learn how long it takes beetles to react and invade. The baited olfactometers are able to successfully compete with naturally occurring attraction centers which indicates their usefulness in bark beetle control.

**Females Studied**  
In the laboratory, female beetles are being studied in an attempt to find exactly which part of the body produces the attractive substance. When this is learned, Rudinsky is hopeful biochemists can chart the exact composition of the substance and perhaps duplicate it in a synthetic creation, which can be used in controlling the beetle population. A companion study, under the supervision of Dr. William Nagel, assistant professor of forest entomology, is being made of the natural predators of the Douglas fir beetle.

Eventually, Rudinsky is hopeful that the work being done at OSU will provide a practical, economical way to control the bark beetles. No practical chemical control is now possible as the insecticide does not reach the beetle which lives under the bark.

**Traps Eyed**  
It may be possible in the future to set-up traps baited with the species attractant to lure the beetles to their death and to prevent the severe timber loss which comes with periodic outbreaks, he said. Since Douglas-fir beetles prefer freshly downed timber and healthy, standing trees are normally resistant to invasion, forest conditions work against population explosions of the bark beetle, the scientist explained. The competition for food causes many of the beetle larvae to die of starvation before they emerge from the downed logs.

However, the tremendous amount of windfall on the forest floor this year means plenty of food for the expanding population which will emerge in the spring of 1964, he continued. The beetles can be expected to invade healthy standing timber in their efforts to find food.

In the last outbreak, the Douglas-fir beetle population remained high until the natural resistance of the trees, plus predators and other factors finally brought the population back to normal.

**Crop Poor**  
If you are thinking about collecting cones this year, don't strain your "gray matter." There just isn't enough of a crop of any kind to make it worthwhile. We hope next year will be better.

### Births

#### Mercy Hospital

**WEBBER** — To Mr. and Mrs. Royce D. Webber, 676 W. Princeton, Roseburg, July 29, a son, Michael Royce; weight 7 pounds 7 ounces.

**RIGSTAD** — To the Rev. and Mrs. Robert H. Rigstad, 1369 NE Brooklyn, Roseburg, July 29, a son, Peter Martin II; weight 6 pounds 6 ounces.

**SHEPHERD** — To Mr. and Mrs. Hubert R. Shepherd, PO Box 197, Riddle, July 29, a daughter, Julie DeAnne; weight 7 pounds 8 ounces.

**ROBERSON** — To Mr. and Mrs. James E. Roberson, 1047 NE Walnut, Roseburg, July 29, a son, Ronald Veri; weight 6 pounds 12 ounces.

**DICKINSON** — To Mr. and Mrs. Fred A. Dickinson, 4746 SW Dillard Highway, Roseburg, July 31, a son, James Anthony; weight 8 pounds 10 ounces.

**BERLANDI** — To Mr. and Mrs. Edward B. Berlandi, 2527 W. Alamosa Court, Roseburg, July 30, a daughter, Deborah Lynn; weight 7 pounds.

#### Forest Glen

**LOTT** — To Mr. and Mrs. Hyrum Lptl, Sutherland, July 27, a son, William John; weight 6 pounds 9 ounces.

**CRENSHAW** — To Mr. and Mrs. Louis Crenshaw, Canyonville, a son, Denis James, Aug. 2; weight 5 pounds 14 1/2 ounces.

**FISHER** — To Mr. and Mrs. Don Fisher, Riddle, Aug. 2, a son, Mike Allen; weight 6 pounds 1/2 ounce.



### Bridge Opponents Also Think

(Written For NEA)  
By OSWALD JACOBY

South won the opening diamond lead with the ace and started about the business of drawing trumps. His plan was to let West hold a diamond after trumps were drawn and eventually discard one or two clubs on dummy's long diamonds.

Only those two! With three hearts he would surely have ruffed one in dummy before playing two rounds of trumps.

Now East was ready for operation "Beat the declarer." He led the four of clubs. West produced the ten spot and forced one of dummy's honors. Later on West got the lead with a diamond and played a club to give East two club tricks.

Improve your bridge game! order your copy of "Win at Bridge With Oswald Jacoby." Just send your name, address, and 50 cents to: Oswald Jacoby, News-Review, P. O. Box 1248, Roseburg, Oregon and a copy will be mailed to you. Or if you prefer, copies may be purchased at the News-Review office.

### ♥♦CARD Sense♦♥

Q—The bidding has been:  
East South West North  
1♦ 1♥ Pass 1♠  
Pass 3♣ Pass 4♥  
Pass 4NT Pass 5♥  
Pass 5NT Pass 6♦  
Pass ?

You, South, hold:  
♠A Q J 10 9 8 7 6 5 4 3 2  
♥A Q J 10 9 8 7 6 5 4 3 2  
♦A K J 10 9 8 7 6 5 4 3 2  
♣A K J 10 9 8 7 6 5 4 3 2

What do you do?  
A—Bid six hearts only. You have suggested grand slam possibilities by your bid of five no-trump. You don't have enough to bid seven yourself. Remember that your partner merely bid one spade over your one heart.

**TODAY'S QUESTION**  
Instead of bidding one spade over your partner bids two diamonds over your one heart. What do you do?

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