

HARTMAN WRAPS FOR PEARS FOUND GOOD PROTECTION

Value Shown in Tests Made in Fruit Shipments by Oregon-Washington Bureau — Interest Is Wide

World-wide interest has been shown by fruit growers and shippers in the Hartman wrap, says the Oregon-Washington Pear bureau. Requests for information on its availability have come from as distant a point as Africa. A bureau release states:

"The Hartman wrap, made by a special copper-oil formula developed by Professor Hartman of Oregon State college, is used by most of the members of the Oregon-Washington Pear bureau. Only bureau members may use the wrap with the 'Hartman Wraps' printed on it, though the wrap without this imprint is available to those outside the bureau. The bureau, who financed the research work in developing the wrap, share in the royalty by the wrap manufacturer.

"Prof. Hartman has been conducting a number of experiments during the past season with chemically-treated wraps for botrytis and scald control in pears. The tests were planned as a check on the work of former years, to obtain information regarding the behavior of the new 16-pound Hartman wrap, and to obtain additional data concerning the efficiency of oiled and non-oiled copper wraps in botrytis control.

Tests Are Made.

"Comparable lots of Anjou pears were packed in various wraps last September and specimens inoculated with botrytis were interspersed throughout the packages so as to insure that each pear would come into contact with a diseased one during the storage period. As compared to commercial conditions this test was unusually severe, but it offered a basis of comparison of the efficiency of the various wraps in both scald and botrytis control. The final examination of the fruit was made during the first week in April when the following results were noted:

(1) The 16-pound Hartman wrap proved slightly more effective than did the 14-pound wrap in both scald and botrytis control. Under the conditions of this experiment there was some spread of botrytis organism even through the 16-pound wrap, but the amount of spread was negligible, if considered on the basis of commercial conditions.

(2) There was no indication that the presence of oil in copperized wraps interferes with botrytis control, since the oiled wraps gave fully as good control as did the unoled wraps.

3 Sheets Better.

(3) As in the tests of former years, the fruit wrapped with two sheets of paper instead of one went through the storage period in unusually good condition. Even under conditions as severe as those set up in these experiments, there was no spread of botrytis and scald control was excellent in the double-wrapped fruit.

(4) The soluble copper wraps such as were used prior to 1933 again gave good botrytis control but gave no protection against scald. Their use also resulted in considerable copper injury.

(5) The oil content of the 16-pound Hartman wrap was sufficient to prevent Anjou scald.

Heavier Wrap Advised.

(6) It appears that botrytis, like many other decay-producing organisms varies in virulence, some strains of the organism being much more difficult to control than others. This probably accounts for the fact that in individual cases the organism breaks through copperized wraps, whereas under ordinary circumstances it does not.

"In view of the results obtained in past years, it is recommended that the Hartman wrap for 1937 be manufactured as it was in 1936. There

Arrested By G. P. U.



Soviet Russia officials revealed that Geurikh Yagoda (above), former head of the G. P. U., had been arrested for "breaches in office of a criminal nature" by his former subordinates in the secret police. (Associated Press Photo)

appears to be no reason why changes in the procedure should be made at this time.

"It is further recommended that the pear industry use the 16-pound wraps instead of the 12 and 14-pound paper used in former years. Only a few used the 16-pound wrap in 1936. Obviously, the added protection afforded by the heavier paper in botrytis and scald control and in the prevention of mechanical injury to the fruit more than offsets the extra cost."

Merging Urged In Home Loan Units

WASHINGTON, May 7.—(AP)—Senator Byrd (D., Va.) laid before the senate today a proposal to consolidate three federal home loan organizations, declaring the merger would save \$24,500,000 a year.

Byrd, chairman of a senate committee on government reorganization, said other suggestions for substantial savings "are sure to follow" if this recommendation is given a hearing.

His measure would combine the home loan bank board, the home owners loan corporation and the federal housing administration into a single unit called the federal home credit administration.

Russian Engineers Shot After Wreck

MOSCOW, May 7.—(AP)—Two locomotive engineers, Demidoff and Stets, have been shot at Krasnoyarsk following conviction by a military tribunal of causing a disastrous train wreck, it was announced today.

The two were accused of being "Japanese-German Trotskyist diversions."

Numerous others were arrested.

Auto Sold, Sight Unseen.

LORAIN, O.—(UP)—Louis Henninger, notified by telephone that he had won an automobile in a contest, sold the car within an hour without having seen it.

CCC MEN TRAINED IN CO-ORDINATION OF FIRE EFFORTS

School Prepares Enrollees in Unifying Forces Engaged On Task of Fighting Forest Area Blazes

CAMP WIMER, May 7.—(Sp)—The national forest service region six, by conducting a nine-day school for time-keepers and radio men at this CCC camp, has taken a major step toward solving one of the knottiest problems which CCC forces had to face during the disastrous 1936 Coos county forest fire.

The school will train 72 Medford district enrollees, 36 of whom will fit into the vital forest fire communications system as radio field operators and the other 36 into administration as time-keepers.

The plan was made possible through the cooperation of Maj. G. R. Owens, district CCC commander, who ordered six enrollees from each of the 12 region six national forest camps in the Medford district to attend the school; through the instructor personnel of the Siskiyou national forest, veterans of the '36 fire; and through Msj. James Frankland, region six engineer, J. F. Campbell, regional fire officer, and Capt. C. L. Pierce, former Medford district CCC fire chief for the army, which three men conceived the plan after observing the difficulties which arose in conducting the 1936 fire campaign; and also through Capt. Rupert T. Gilbert, who camp Wimer offered facilities for the school.

Ranger At Head

Siskiyou instructors in the school are headed by Loran J. Cooper, Galioe district ranger. Under him are Arthur J. Peterson, Siskiyou radio technician, who coordinated radio communications during the '36 fire; A. L. Jess, Chetco district administrative guard; Ray Burdick, foreman; and S. D. Egan, warehouseman attached to Siskiyou forest headquarters, Grants Pass. Robert Reinhardt, Applegate district assistant ranger, from the Rogue River national forest, was attached to the school to observe and to assist in instruction.

George Griffith, region six chief of education and information, and R. C. Lindberg, regional training supervisor, attended the school in a supervisory capacity. Lindberg devised the course of instruction.

Graduates of the school will in case of emergency be sent for service to any location in region six which comprises all of Oregon and Washington and part of California.

Radio Links Forces

The radio school conducted by Peterson and Jess has 12 combination sending and receiving portable field sets. The compact set adopted by the national forest service was developed in region six by A. G. Simson. It weighs only 17½ pounds, can easily be carried into rough country and set up by one man.

The CCC enrollees students were, during the course of the school, sent to scattered points through the hills back of Wimer and required to set

up their outfits and get into communication with one another.

The field radio man usually picks a spot where he can stretch his aerial between two trees. He then sets up a field desk so that he can take notes, plugs in his set and calls for other radio men by the list of numbers furnished him. In the case of the Siskiyou forest, the field set men would be under the direction of KBAM, the central Siskiyou station at Grants Pass.

The importance of the field radio men was strikingly demonstrated during the critical days of fire line duty last year in Coos county. With four to five thousand men broken up into embattled units scattered through the primitive forests along the coast, the army and the forest service were concerned with the protection of the fighters, with whom they had to keep in constant touch, as well as with the conduct of the campaign to save the forests.

WOODEN BOX CAMPAIGN EFFORTS REPORTED AT MILL EMPLOYEES MEET

At a meeting of over 150 Medford Corporation employees, held in the Guild hall last evening, Roscoe G. Duthie, regional director for the western wooden box campaign, gave an interesting report on progress being made in the campaign.

Due to excellent results obtained by the employe committee working on the wooden box campaign last year, Mr. Duthie said that further support had been obtained from Western Pine association in addition to that already contributed by the National Wooden Box association.

Mr. Duthie said that stores along the entire west coast were now displaying the tag "Brand received in wooden boxes" on all products so received. He urged all present to cooperate with those shippers who were helping the payrolls of the community, and buy their products shipped in wooden boxes.

Beauty for Eskimo.

JUNEAU, Alaska.—(UP)—Madam Eskimo who lives on the Alaska coast now has one of the opportunities of the women in the big cities, M. C. Edson operates a floating beauty parlor from Juneau.

Lawn mower service, call and del. Ideal Bike Shop, Tel. 895, 411 E. Main.

Check Recruits

Timekeepers, while not engaged in the spectacular work of delivering and receiving dispatches, are just as important in the administrative direction of fire fighting. It is their business to check in the non-CCC men who have been recruited for service on fires. They check the contracts of the men, keep tabs on them throughout their service and up to the point that they are delivered back to more peaceful pursuits. On them falls the vital paper work which changes a mob of freshly recruited men into orderly, smooth working units.

The school will close May 10 with graduation exercises for those who successfully complete the courses.

Prospect

PROSPECT, May 7.—(Sp)—Prospect Township club met April 27 at the Nelson Nye home. The next meeting will be held May 11. There will be a special meeting May 22 with a play and a guest speaker, Mrs. Nora Ivis of Oregon City. A picnic will be held May 23 in the Nye grove with Mrs. Ivis as the principal speaker. All interested are most welcome.

Prospect W. C. T. U. met May 1 at the home of the president, Mrs. Leslie Dunningan. An institute is planned for early in June at which the Josephine and Jackson county W. C. T. U. president will preside. The next meeting will be held the afternoon of May 14 at Nelson Nye's. Everyone interested is invited.

Mrs. Hope Clarke organized a Loyal Temperance Legion society for children at the Nye home May 2. There were 19 charter members with Eugene Dunningan elected president; Letha Clarke, vice-president; Aileen

Sherwood, secretary, and Delpha Clarke, treasurer.

Mrs. Katie Orive has been a "flu" patient at the Community hospital in Medford the past week.

Union Sunday school held a party for the young people Wednesday evening at the Grange hall which was well attended.

Boy Scout meeting will be held tonight at the Grange hall.

It has been decided to organize a camp fire group among the girls. A meeting to choose leaders will be held tonight.

Mr. and Mrs. Newy Goodlow of Roseburg were week-end guests of Mr. Goodlow's mother, Mrs. Ed Holtenbeck at Red Bluff.

Children in Mrs. Pellett's room at school gave a party today.

Fetch and Chet club met Friday afternoon with Mrs. Jagger.

'ECHOES' STUDIED TO MAKE AIRPLANE PROPELLERS SAFE

By Howard W. Blakeslee (Associated Press Science Editor)

DAYTON, Ohio.—"This," said the Wright field aviation officer, surveying the littered state of the concrete, cell-shaped room, "is far from being the healthiest of occupations."

"This" referred to the rare occupation of aircraft propeller testing. And to the fact that the litter of the moment was chunks of concrete, of man-killing size. They had been knocked out of a bulging hole in one of the 10-inch, steel-reinforced walls.

The thing that hit the wall was a broken propeller blade. But the cause of it was a queer kind of "echo," a soundless vibration, which echoes along an engine crankshaft and propeller, building up what engineers call resonance.

Discovering this echo and how to get rid of it has given Americans the safest propellers of any nation in the world and has caused the material division of the U. S. army air corps to build here the most complete propeller testing laboratory in the world.

The blade that broke was on an engine, running at full speed on a testing block outside the smashed wall. The engine and propeller were getting acquainted. Both vibrate. Vibrations of both may be safe—when separate. These two did not match. Their combined vibrations built up the fatal echo.

One blade snapped at the hub.

It tore the engine loose and tossed it into space as smoothly as a giant shot putter. This kind of break always tears the engine out of a plane. It never gives warning. It is fatal in flight.

Duplication of this kind of failure in service is forestalled by the laboratory. There are vibration analyzers and three towers, each two stories high. On the towers, like windmills, propellers are mounted. They are the "whirl rigs." The whirling is done with 20,000 horsepower of electricity.

The vibration analyzers discover the destructive frequencies of the "echo" in the propellers. The props remove these frequencies from the operating range.

On the whirl rigs, the propellers are given a 20-hour endurance run at double the rate horsepower of the aircraft engine for which they are designed.

COOS PLEDGES AID TO GRANT COUNTIES

COQUILLE, May 7.—(AP)—Commissioner R. H. Lawhorne pledged Coos county's aid today to other counties in the move to protect tax equities in Oregon and California timber. Coos will lose about \$23,500, the commissioner said, if an interior department measure changing the interest of counties in land grant timber is passed.

Banks on Fair Days.

MANCHESTER, Mass.—(UP)—This fashionable north shore town has a "fair weather" fire alarm system. Selectman David Burke says that on damp days there isn't a workable alarm-box in town. He attributes the difficulty to exposed wires.

Then the propellers are given a 100 hours endurance run on the actual engine, at 100 per cent rated horsepower. After that, they take 10 hours endurance on the actual engine at the "flash" power approved for take-off.

Weather.

Northern California: Generally fair tonight and Saturday, but unsettled north portion tonight, with rains over Siskiyou and on extreme north coast; warmer interior north portion Saturday; moderate south to west wind off the coast.

Oregon: Unsettled tonight and Saturday; occasional rains west portion; cooler east portion Saturday; moderate southerly wind off the coast.

THE STORY OF COFFEE

Fact No. 2

Coffee was first food, then a wine, a medicine, and lastly a beverage. Its use as a popular beverage dates back several hundred years. During the period of 800 A. D. whole ripe berries, beans and hulls were crushed and molded into food balls held in shape with fat. It was next used in Africa as a kind of aromatic wine made from the fermented juice of the hulls and pulp of the ripe berries. Next, a medicine was made by boiling the dried berries in water. This was about in 1200 A. D.

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"You looked marvelous at dinner, Grace — so cool and charming. And the food tasted so good."

"I never could have done it without my automatic range. I spent only a little time in the kitchen."

Husbands, as well as guests of both sexes, approve the women who uses automatic servants to do things scientifically and save her own time and labor. She prepares the meal the automatic controls cook it while she rests, or goes out to shop or play bridge.

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