

Cost, Installation of Steel Tower Approved by Growers

Cost and installation of a steel tower for local orchard heater research will be undertaken by the Jackson County Fruit Growers League. It was decided at a meeting Friday.

W. J. Rogers, of the fruit frost forecast warning service, ordered the tower Saturday. He said, and will be installed the first of April.

The 88-foot telescopic tower with temperature measuring instruments at different levels will be erected in the Scott Hamilton orchard, northwest of the Medford airport, to make a profile study of air inversion. An orchard such as Hamilton's, which is not heated during the frost period, is needed for the study, he said.

Conditions Stable

Inversion occurs during stable conditions when cold air lies beneath a warm air layer. Since heat rises, warm air will not replace the colder air.

Besides providing an inversion measurement throughout the Rogue valley, the study results can be compared to inversion in northern, central and southern California. There this weather condition occurs to a much milder degree, Rogers noted. What has been learned in southern and northern California can be applied here, he added.

Research on inversion was started in the valley about the mid 1920's, Rogers noted. Researchers then mounted instruments on a wireless tower which they climbed every week. The new tower will have climbing, since it can be

save climbing, since it can be above the ground. A pipe on top will mount an instrument 95 feet above the ground.

Explain Conditions

At Friday night's meeting in the Jackson county courthouse, Rogers and Clifford B. Cordy, county horticultural agent, explained weather conditions, when to fire orchard heaters and how to handle heaters efficiently.

Fruit growers were told when to fire heaters at various stages of fruit bud development. During the early stages of bud development the mercury may drop generally, as low as 22 to 23 degrees before heaters need be fired.

As the fruit buds open up, late stages may require heating at 31 degrees. These stages depend on conditions in each orchard and specific weather conditions, Rogers pointed out.

With warm weather pushing fruit buds, a rough figure for heating may be 23 degrees now. However, some orchards are further along than others, the meteorologist noted.

The lower the heaters burn the more heat can be put out per gallon of oil, Rogers told the growers. For maximum efficiency heaters should not be fired any sooner than they have to be or used any longer than necessary consistent with the safety of the fruit buds.

Approved Heaters

Three generally approved heaters are the lazy flame, jumbo cone, and return stacks.

Each requires a different type of handling. All of them are capable of emitting only one gram of smoke per minute, Rogers explained, if carefully controlled.

Following discussion on how to handle each of the different types of heaters, Rogers explained that the return stack heaters should be burned with all louvers closed or as close to that as possible. This depends on the amount of leakage around the top cap, he said. Under certain conditions, these heaters may have to be opened up, but rarely more than one hole, he added.

The burning rate of the lazy flame heater varies from 3/4 gallons an hour to a little over a gallon an hour. This type of heater should be burned with one hole open.

Jumbo cones are more like the lazy flames, about one hole, sometimes 3/4 of a hole open. With this type of heater, the burning rate varies from heater to individual heater.

"Orchard heating is like cooking on a stove or heating a room," Rogers described. "There is no sense in leaving heaters wide open or holding the temperature 2 to 3 degrees higher than you need to. You're merely wasting oil!"

Considering weather conditions, Rogers said the damper the night the more gentle the temperature drop. More damage is done to fruit buds on dry cold nights, but researchers have not come up with the reasons yet, he said. During dry nights the temperature behaves more erratically and drops faster.



FIRM'S PERSONNEL—Keith Bates, right. Left to right, company personnel include has announced the purchase of the Town and Country Realty, 609 East Jackson st., near the Medford Shopping Center. Bates said the personnel would be the same.

News About Books From the Library

Following is a list of new books received at the Public Library at Medford and Jackson County during the past week.

Gardening: Burrage on vegetables, Burrage; The Kitchen Garden Book, Barr; The Complete Modern Tree Experts Manual, Fenska; The Book of Trees, Hottes; Garden in Your Window, Hersey.

Biography: George Faye, Greenlaw; Blaise Pascal, Mortimer; The Longs of Louisiana, Opotowsky; Ring the Night Bell, Magnuson.

History: Behind Enemy Lines, Sanderson; Hope for South Africa, Paton; A History of Oregon Methodism, Yarnes.

Science: A Treasury of Science, Shapley; The Meaning of Relativity, Einstein; On Nuclear Energy, Hughes; Radiation, Genes, and Man, Wallace; The Scientific American Book of Mathematical Puzzles & Diversions, Gardner.

Other non-fiction: Standards for School Library Programs, American Library Association; A Basic Book Collection for Junior High schools, Spengler; Modern Man in Search of A Soul, Jung; Two Essays on Analytical Psychology, Jung; The Dead Sea Scrolls and Primitive Christianity, Danielou; The Dead Sea Scrolls and the Living Church, Howie; Issues of Freedom, Muller; Unions and Union Leadership, Barbash; Investing for A Successful Future, Babson; The Child, the Parent and the State, Conant; The Mode in Hats and Head-dresses, Wilcox; The Beginning Antique Collector's Handbook and Guide to 1,000 Items to Collect, Cole; A History of Flower Arrangement, Berrall; Baseball Stories, Cummings; Practical Falconry, Freeman; This is the American Earth, Adams; You and the World to Come, Droke.

Serious fiction: The Tower, Steen; A European Education, Gary; Some Angry Angel, Condon; The Scene, Cooper.

Historical romance: That Far Paradise, Markey; A Hundred Hills, Breslin; The Master of Badger's Hall, Trece; The Promise, Kellner.

Mysteries: The Shivering Mountain, Somers; The Kingdom of Death, Pentecost; Be Silent, Love, Nichols; This Won't Hurt You, Fitzgerald; Miss Bones, Fleming.

Other fiction: Jeremy Todd, Maule; Trustee from the Tool-room, Shute; The Crowded Sky, Searls; The Edge of Day, Lee; Friday's Footprints and Other Stories, Gordiner; When Doctors Marry, Seifert; Sing One Song, Miller.

Bates Buys Local Real Estate Firm

Keith Bates, Medford, has announced the purchase of the Town and Country Realty, 609 East Jackson st., near the Medford Shopping Center.

Bates said the business will continue to operate under the name Town and Country Realty at the same location.

Robert A. Stokes, who has been associated in the real estate field in the valley for several years, has been named sales manager of the company, Bates said.

J. Verne Shangle, Harold Houston and Patricia McKinsey will continue as salesmen, and Molly Malone will continue as receptionist and Bates' secretary, he said.

Bates is a member of the Medford Board of Realtors, and has been associated in the real estate field in Medford for the five years, the past 2 1/2 of which he served as manager of the real estate department of the MacKenzie agency and a local insurance and real estate firm.

Hearings Scheduled By Committee

The legislative interim committee on public welfare will hold public hearings Monday, April 4, in Eugene, and Tuesday, April 5, in Medford, Representative Grace Peck, Portland, committee chairman, announced Saturday.

County-state financial and administrative relationships, standards of subsistence and medical care and eligibility standards are among the topics under study by the committee.

Committee members include Representative Wickes Shaw of Lane county, Senator Melvin Goode of Linn county and Dr. Ennis Keizer, of North Bend.

Persons and organizations desiring to appear before the committee are asked to notify the committee in advance by writing to the committee office at 1129 SW Fifth, Portland 4.

The Eugene meeting will be held in the Lane county courthouse public meeting hall, and the Medford session in the Jackson county courthouse auditorium.

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