

AGRICULTURE AND LIVESTOCK NEWS

Up-to-date Information to Help Develop Progressive Farming

HOW AND WHAT TO GROW IN GARDEN, IS PROBLEM

Plans for Cropping Land Continuously to be Brought Out in Short Course at O. A. C.

Plans for continuous cropping of garden lands in parts of Oregon, along with adaptability of different soil types to vegetables, will be brought out in the 11-weeks' short course at O. A. C., beginning January 23. Community production of particular vegetables in car lots—cabbage, broccoli, onions, celery, lettuce, melons—to put them into consumers' hands at less cost, will get much attention.

"No little attention will be given to means and methods of marketing vegetable crops to better advantage," says A. G. Bouquet, in charge of the work. Harvesting, grading, packing and selling will cover the perishable vegetable crops.

Growing all kinds of vegetable seedlings under glass for field setting, and growing such crops as tomatoes and cucumbers to maturity under glass, will be gone into. Storage equipment and best conditions for keeping vegetable will be presented.

Use of fertilizers and irrigation for quality produce will be explained, as well as the comparative value of varieties of each vegetable and seed strains of those varieties.

"THE LITTLE DAIRY COW" ENTITLED TO BEST HELP

Oregon dairy cows have done their part better than those of any other state, but Oregon butter used to be the bunk for quality. That was not "the little mortgage lifter's" fault, and the better class of Oregon dairymen insist that she be given the best and wisest help possible in boosting for Oregon. So lots of improvement has been made lately in the quality of butter, and there is no good reason why it should not be brought up to the high rank of Oregon cheese.

Care of the cream is the start for high grade butter. This means practical as well as general cleanliness, pasteurization of sweet and sour cream, ripening the cream, use of starters and churning. Milk and cream testing, moisture of butter, salt and fat determination, need be understood. Those are all taught by instruction and laboratory practice in the big commercial creamery at O. A. C., in the short course, January 2-27.

Cheese making and ice cream making, along with refrigeration and general creamery management, will also be given the once-over.

GOOD FARM MANAGEMENT ESSENTIAL TO SUCCESS

Some do and some don't—make money from farming.

Some factors are not beyond the farmer's control, and some he can set for himself. It is important to understand as well as possible the best use of agricultural resources. For the farmers who cannot take a full degree course in agriculture, a special winter course has been arranged at the state college, January 2 to March 17.

Selecting and growing the most profitable farm crops for grain, forage and special purposes, and feeding and managing the farm stock, cattle, horses, sheep and hogs—and giving the right relation to those industries by scientific farm management—are taught by instruction, training and experience. Inquiry of the college registrar, Corvallis, will tell you how to join.

Poultry Co-op, Prospers.

The Pacific Co-operative Poultry producers are now admitting new members, reports E. J. Dixon, manager. Prices that are generally satisfactory to growers are also being returned, the manager says. This is one of the "big six" co-operative bodies that represent eight thousand Oregon farmers who sold more than \$7,000,000 worth of farm products co-operatively in 1921.

Drab and damp poultry litter are to be guarded against, particularly at this season of the year.

BALANCE THE FEED BY USE OF ALFALFA

If the roughage which you are feeding consists of such feeds as grain or grass hays, corn or grain silage or roots, so it is low in protein, it will pay you well to buy such high protein feeds as linseed oil meal or soybean meal to balance your ration. In a feeding test which was carried on last winter on a farm where the herd was fed at least as well as the average, the owner was able to increase his net profit \$2 per cow per month by adding linseed meal and soybean meal to balance the ration.

If the roughage which you have on hand is not sufficient to last you thru the winter, so that you will have to buy alfalfa hay in the spring, you might well buy the alfalfa now and feed it with the roughages which you are feeding, so as to raise the protein content of your roughage and allow for the purchase of less high protein concentrate for your grain ration. Digestible nutrients are fairly cheap in alfalfa compared to most other feeds on the market. In alfalfa at \$20 per ton, a hundredweight of digestible nutrients costs \$1.92. In corn at \$40 per ton, a hundredweight of digestible nutrients costs \$2.35. In mill run at \$34 per ton, a hundredweight of digestible nutrients costs \$2.79.

If good alfalfa is chopped a cow can consume considerable more than if it is not chopped and so be able to secure in alfalfa a good portion of the protein which she needs. However, it is better not to buy the alfalfa ground, but to grind it yourself, in order to avoid adulterants and a poor grade of alfalfa.

The average 1000-pound cow which is getting 10 pounds of alfalfa hay daily will also eat about 15 pounds of oat hay or its equivalent, such as five pounds of oat hay and 30 pounds of corn silage. If she is in good condition and it not giving more than 10 pounds of 4 per cent milk per day she does not need any concentrates. If she is giving from 15 to 25 pounds daily of 4 per cent milk one pound of corn for each six pounds of milk would be a good grain ration at the present prices. If she is giving around 40 pounds of 4 per cent milk daily a good concentrate mixture would be six parts of corn to one part of linseed oil meal or soybean meal fed one pound of the mixture to four pounds of milk.

MANUFACTURERS NOW USING APPLES TO THE LAST SEED.

The thoroughness with which the apple is now worked over and utilized by some manufacturers makes it comparable with the packing-house pig that leaves only a futile squeal. The apple is not transformed into such a variety of products as the pig, but all are useful, and when the last of the series has been made hardly a smell is left. In many of the apple-using factories the apples are first pressed to produce cider, which may be sold as such or may be manufactured into vinegar. After thorough pressing the pomace is treated with hot water to remove the pectin which, after purification, is sold in either liquid or solid form to manufacturers of jellies and similar products and to housewives. The much-wasted and squeezed residue is dried, ground, and sold as cattle feed.

IRRIGATING VEGETABLES GIVES DOUBLE CROPPING

Two vegetable crops a season and use of cover crops to maintain soils in physical and fertility conditions, are advantages of irrigating the vegetable garden, as practiced by Chase & Sons, Eugene. Oats and vetch or winter barley are good cover crops, they find.

"If you have water you have a crop, if you don't sometimes you won't," says E. B. Chase. "Irrigation is part of the good farm practice that aids in control of aphids and other crop pests." Quality and size are improved by water at the right time. It will enable the growing of one crop at least not in competition with general growers, insuring a good market. Irrigation crops hit the market both earlier and later than unwatered crops.

Bad Orchards Spread Pests

"No progressive orchardist should stand for the neglect of orchard trees adjacent to his property, which will result in the development of diseases and pests which will spread to his own trees," asserts H. P. Bars, plant pathologist at the Oregon Experiment Station. "Such pests and diseases make the problem of producing clean fruit and healthy trees more difficult."

"The state horticultural law provides the method by which such cases can be handled. Appeal to your county fruit inspector or to the State Board of Horticulture, who have the enforcement of the law in charge. Keep after them until the offending property is cleaned up."

Pest Control Panaceas Risky

Three types of insect and disease pest remedies are often hawked about Oregon fairs, endangering real control of the experiment station. One type of these fake panaceas is merely harmless, having power neither for good or bad; one is actually dangerous to the crops; it is said to protect, and the third is largely ineffective because the remedy is not in suitable form for the designated use, and is high priced. Steps were taken at the annual meeting of the state horticultural society to have legislation enacted to stop the practice.

Plans for making the standard grades and packs of fruit and vegetables and their products uniform in the three northwestern states, are under consideration by the Oregon State Horticultural Society. It is thought that this can best be effected by placing the matter of enforcement in the hands of the state board of horticulture.

"Listen for the singing hen," advises F. E. Fox of the Oregon Experiment Station. "If you haven't any in your flock, the chances are that you are getting very few eggs. Change the conditions of food and care, if necessary, to bring this about."

A palatable wet mash will bring pullets into production when they are slow to lay. It is advisable to feed it in such a manner that the activity of the bird will not be interfered with during the day. A hungry hen is a working hen.

Placing the roosters in the breeding pens this month is advisable in order that they may become accustomed to their surroundings and acquainted with the bounce of the flock before eggs are saved for hatching.

RECIPES

Contributions to this column are invited.

The Festival Cake.

The festival cake, or the Spanish Torta, as it is made in Spain is truly royal, and is the some of deliciousness for the holiday season. Here is the recipe: One-half pound of pineapple glaze, 1/2 pound of blanched shreaded almonds, 1/4 pound of citron, 1/2 pound of pistachio nuts, 1/2 pound of fresh coconut, 1/4 pound of cherries 1 pound of sugar, 1 pound of butter, 1 pound of flour, 4 teaspoonfuls of baking powder, the whites of 3 eggs, 2 gills of grape juice, or apple juice 1/2 teaspoonful of almond extract, 1/2 teaspoonful of rose extract, the juice of 1 lime, 1/2 teaspoonful of salt.

Put the fruits and nuts through the food-chopper and dredge them with 1/2 pound of flour. Cream the butter and sugar, add the fruit juice and flavoring and, lastly, the whites of the eggs beaten to a dry froth with the salt. Add to the chopped fruits and nuts dredged with flour. Sift 4 teaspoonfuls of baking powder with a part of the remaining flour and add during the mixing of all the ingredients. Bake in a moderate oven.

Aids Digestion

Roman Meal Health Bread, as well as a number of grocers in our city. Ask your neighbor.

Christmas Plum Pudding.

2 cups chopped raisins 2 cups currants, 1 cup finely chopped citron, 1 cup finely chopped figs, 2 cups brown sugar, 2 cups GOLD MEDAL FLOUR, 2 cups bread crumbs, 2 cups ground suet, 1 tablespoon finely cut orange peel, 1 tablespoon finely cut lemon peel, 1 tablespoon mixed spices, 1 tablespoon salt, 3 eggs, 1 cup water, 1 cup fruit juice.

Mix dry ingredients and add fruit. Add water, eggs well beaten and fruit juice; mix thoroughly. If too dry, add more water to make stiff mixture. Grease molds and fill only 3/4 full. Steam about six hours. Pudding is best when made about a week before serving, then steam about one hour and serve with sauce.

Hard Sauce.

1/4 cup butter, 1 cup powdered sugar 1/2 teaspoon lemon extract, 1/2 teaspoon vanilla.

Chicken Salad.

Cut cold roast or boiled chicken in small pieces, add one-half as much celery cut fine, season with salt and pepper, mix with French dressing and let set for two hours. Just before serving stir in some mayonnaise slightly thinned with lemon juice, arrange on lettuce leaves and cover with thick mayonnaise.

CHILDREN'S STOCKINGS BIG ASSET CHRISTMAS MORNING

Occupies First Place in Arousing Interest in The Result Of Santa's Visit

Where there are children the Christmas stocking should never be forgotten. Nothing can take the place of it, for nothing else arouses quite so much speculation and pleasurable anticipation as what Santa Claus will put into that homely article.

The general distribution of gifts may well take place after breakfast is out of the way; but no child can be expected to wait very long for the "feel" of something Santa has left. If all his gifts are given immediately on waking excitement will run high, and dressing and breakfast will be gone through with great difficulty. Also, a considerable quantity of candy and nuts will have vanished before the morning meal is served, and with them will have disappeared all signs of an appetite.

As a means of avoiding these conditions the Christmas stocking serves a good purpose. Carefully filled, it will satisfy the child's longing for "Christmas the first thing in the morning" will give him a taste of Christmas goodies without destroying his appetite for breakfast, and will leave sufficient expectancy concerning the other things coming so that he will readily submit to being properly bathed and dressed.

An orange for the toe of the stocking, some especially desired toy which will prove of untold interest, some article of dress in which he can "parade around," a handful of pop-corn, a small box of animal crackers and a stick or case of pure sugar candy should make a stocking sufficiently bulging to please any child. All the food it contains can be consumed without continual warnings of "Don't eat too much now," or "Better save the rest until after breakfast." The toy and the one other gift will hold the child's interest until every one is assembled for the big distribution, which need not be hurried.

Twice Proven

If you suffer backache, sleepless nights, rited, dull days and distressing urinary disorders, don't experiment. Read this twice-told testimony. It's Oregon City evidence—doubly proven. James Wilkinson, retired farmer, 201 14th St., Oregon City, says: "Nothing gave me as much relief from kidney trouble and pains in my back and hips as Doan's Kidney Pills. I had to get up at night as I couldn't sleep on account of the pains and aches and my limbs were stiff. I was advised to try Doan's Kidney Pills and was surprised at the quick relief I got. Several boxes relieved me and today I am

The Time to Buy

Is when others are not buying—when money is rather close and prices are low.

When spring opens there is always a buyers' rush, and prices always follow demand.

If you want a city home, a farm or any property, look them over now and save money. Come in and see what I have.

Insurance that Insures

Seven strong companies, fire, accident, burglary, forgery, casualty, auto.

E. E. TEEPLE

719 1/2 Main, Oregon Or.

HAZELIA

By Hazelia School Pupils.

(Too Late for Last Week)

There has been considerable absence in the Hazelia school on account of sickness and bad weather the past week.

Mrs. Archie Worthington visited her mother, Mrs. C. W. Childs Sunday morning.

W. B. Cook made a business trip to Salem, Tuesday.

Lynn Killard was a Portland visitor one day this week.

Bill Nagl and wife of Portland, visited the former's parents George and Agl. Sunday.

D. E. Long called at the J. P. Cook home Sunday morning.

The pupils of Hazelia school are preparing a Christmas program to be given Friday evening, December 22, 1922.

Mr. and Mrs. Max Forte spent Sunday night with the latter's father, J. H. Eastman.

L. Spouta visited his brother J. Spouta one day this week.

Mr. Huntington has caught five beavers in the Tualatin river near here during the past week.

Wilbur and Donald Lehman visited their aunt, Mrs. Frank Childs, who has been ill, last Sunday.

Margaret Papoun called at the E. R. Whitten home one day last week.

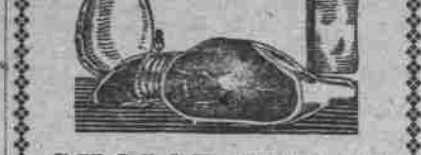
Bert Hays of Waldport has been visiting relatives and friends in and around Hazelia.

E. R. Whitten and family were Oregon City visitors last Saturday.

hale and hearty." (Statement given March 29, 1910.)

On April 26, 1920, Mr. Wilkinson said: "The occasional use of Doan's Kidney Pills keeps my kidneys in good condition and I can't say too much for Doan's."

Price 60c. at all dealers. Don't simply ask for a kidney remedy—get Doan's Kidney Pills—the same that Mr. Wilkinson had. Foster-Milburn Co., Mfrs., Buffalo, N. Y.



CHOICE MEATS

From the best meats we can buy we offer you the choicest cuts, at prices no more than you have paid elsewhere for less quality.

Oregon City Cash Market

Ruconich & Roppel Props. Phone Pacific 75 — 218 Main St

MASON

HEAVY DUTY CORD

Oversize	
30x3 1/2	\$13.75
32x4	24.50
33x4	24.70
34x4	25.35

New Standard Size

30x3 1/2	11.30
Also 30 x 3 1/2 and 31 x 4 straight sides.	
Goodrich motorcycle and bicycle tires.	

North-West Tire Co.

Warren & Blodgett, Prop. 407 Main St. Oregon City

Cook With Electricity

Countless thousands of American housewives would never have enjoyed real efficiency, economy, convenience and cleanliness in their kitchens had they not obeyed the national slogan—cook by wire.

Portland Railway, Light & Power Co.

Store Now Opens at 9 A. M. Saturdays

The Most in Value

The Best in Quality

Home Phone: A 2112

Store Closes Daily at 5:30 P. M. Saturdays at 6 P. M.

Roberts Bros.
THIRD & MORRISON

THE BEST IN QUALITY THE MOST IN VALUE—

"THE STORE THAT UNDERSELLS BECAUSE IT SELLS FOR CASH"

For the Men--Practical Gifts

Everything arranged to serve you promptly, satisfactorily. Unlimited assortments in thoroughly reliable qualities with only our well-known established low prices to pay. We would be pleased to have you examine these offerings.

Men's Plain All-Linen Handkerchiefs, each	25c
Men's Initial or Plain All-Linen Handkerchiefs, priced special at 35c each or	3 for \$1.00
Men's Initial or Plain All-Linen Handkerchiefs, each	50c
Men's Pongee Silk Handkerchiefs, each	75c to \$1.00
Men's Suspenders in Fancy Holiday Box, pair	65c
Men's Suspenders in Fancy Holiday Box, pair	\$1.00
Men's Suspenders in Fancy Holiday Box, pair	\$1.25
Men's Combination Suspenders and Garters, Holiday Box, set	\$1.25
Men's Garters and Arm Bands in Fancy Holiday Box, set	\$75c
Men's Fruit of the Loom Neckband Shirts	\$2.00
Men's Silk Striped Neckband Shirts	\$3.00
Men's Fiber Silk Neckband Shirts	\$4.45
Men's All-Silk Neckband Shirts	\$4.50
Men's Pongee Neckband Shirts	\$5.00

BEADED AND EMBROIDERED
WAISTS AND BLOUSES AT \$4.95

A gift selected from our extensive stock of beautiful white Crepe de Chine Waists or Blouses in navy, poinsettia, henna or jade—insures a gift sure to be appreciated.

Go Home for —Yuletide Holidays

Why not surprise the folks at home with a visit at Yuletide? It will make them happy and you, too. Plan now to take advantage of—

25% Reduction in Round Trip Fares

Between all stations where one-way fare is \$30.00 or less.

Sale dates: December 22, 23, 24, 25, 29, 30, 31, January 1st. Final return limit January 3rd.

Frequent and Convenient Service will make your journey a trip of pleasure.

For further particulars ask agents or write

JOHN M. SCOTT,
General Passenger Agent

HOW TO BUY FIRE INSURANCE

Property vacated means a policy voided.

Select an agency that will advise you and keep you out of trouble. Remember that if you vacate your property without notifying the agent your insurance policy will be void by the conditions of the contract.

Let this agency of the Hartford Fire Insurance Co. advise you.

HOWLAND

REAL ESTATE AND INSURANCE
Phone 377 620 Main St
Oregon City, Oregon

FEED ME

More and Better Fruit

A NEW DISCOVERY.

Nature's Way of Production Greatly Improved.

The fruit buds mature and produce much larger and more wholesome fruit. Extremely large cherries and they do not fall. Bear in mind that fully fifty per cent of our cherries fall before maturity. This may all be saved, except for weather conditions, the first year by the application of "Morehouse's Orchard Invigorant," applied by expert horticulturists. All fruit made to bring forth an abundance, as the "Invigorant" feeds the fruit bearing buds. The serious bleeding, as well as Bacterial Gummosis, in the berries, soon overcome, through the perfect circulation of the sap. Roses and all the flower kingdom made to respond with brighter tints; all cereals, vegetables, forced into heavy production. Practical pruning, spraying, budding and grafting done in proper season. All sprays have the invigorant added free. "The wilderness and the dry land shall be glad, and the desert shall rejoice and blossom as the rose." Write or call for further information.

Morehouse Orcharding Co.,
Woodstock,
Portland, Oregon.
Phone Auto 647—98
Sundays excepted.