

TECHNICAL DEPARTMENT BULLETIN

TO ALL DEALERS:

For your information we wish to advise that in our experiments and tests here at the factory with our new Eight Cylinder car, we have been able to secure uniformly better results with Standard Oil Company's Zerolene motor lubricant than with any other which we have used.

Please understand, however, that we do not wish this to be construed as an attempt on our part to dictate the brand of oil which you should use, but merely to call your attention to the fact that this particular brand has given us better results than any others which we have tried, and are giving you this for your information.

Yours very truly,  
THE PEERLESS MOTOR CAR COMPANY

BECAUSE Zerolene is correctly refined from asphalt-base crude, it maintains its lubricating body and value at cylinder heat, thus forming a perfect piston seal, reducing friction, and enabling the motor to develop its maximum power.

Zerolene is the oil for your car.  
For sale by dealers everywhere and at our Service Stations.  
STANDARD OIL COMPANY  
(California)



CARBON BISULFID FOR BEAN AND PEA WEEVIL

Stored Seeds Showing Large Round Holes Need Treatment.

Beans and peas stored for seed, showing large round holes in the sides, are infested with weevils and need fumigation with carbon bisulfid gas before being planted, says A. L. Lovett, entomologist of the O. A. C. experiment station.

"The adult weevil is a small, olive-drab beetle that appears in the field at blossoming time and deposits eggs along the keel of the developing pods. The eggs hatch into grubs that enter and feed on the maturing seeds in which they are still present when the seed is stored."

Carbon bisulfid fumigation is the standard treatment. The tin or container in which the seeds are stored is made as nearly gas proof as possible. For each 15 bushels of seed, one pound of carbon bisulfid is used. It may be poured over the seeds or placed in shallow trays above them. The bin should be securely closed for 24 hours, then opened and thoroughly aired.

Caution should be used in handling the carbon bisulfid, as it is very inflammable. Do not open near a hot stove or use a light or smoke while treating the seed.

Another treatment for the weevil is to pour the seed into a vessel of boiling water. Before doing this have ready for instant use a supply of cold water which must immediately be added to the water containing the seeds. The infested seeds will float and may be skimmed off. This treatment is advisable only when the seeds can be planted at once.

Neither of the treatments should injure the vitality of the seed.

CALIFORNIA TAXABLE PROPERTY VALUE

The total true value of taxable property in California is \$8,279,562,214, according to State Controller John S. Chambers. From 1909 to 1916 there was an increase in assessed value of over 1,000,000,000. The ratio of assessed to true value of property in California is approximately 42 per cent.

Your noblest natures are most credulous.—Chapman.

A little want ad in the St. Helens Mist will bring results.

Broken Wind-Heaves

Help your horse to health and strength  
Dr. Daniels' Renovator Powders  
A True Conditioner  
A Spring Medicine for that Tired Feeling  
Try one package—Costs 50 cents  
Money back if not satisfied  
You take no risk with Daniels'  
Ask our Agent for Dr. Daniels' Free Book  
A. J. DEMING,  
Druggist.

NOTICE OF ADMINISTRATOR'S SALE OF REAL ESTATE AT PRIVATE SALE.  
IN THE COUNTY COURT OF THE STATE OF OREGON FOR COLUMBIA COUNTY.  
In the Matter of the Estate of Martin Carniff, Deceased.  
Notice is hereby given that in pursuance of an order of the County court of the county of Columbia, state of Oregon, made on the 10th day of April, 1917, in the matter of the estate of Martin Carniff, deceased, the undersigned, the administrator of the estate of Martin Carniff, deceased, will sell at private sale, in one parcel, to the highest bidder, upon the terms and conditions hereinafter mentioned, and subject to confirmation by said County court, on or after Saturday, the 12th day of May, 1917. All the right, title, interest and estate of the said Martin Carniff, deceased, at the time of his death, in and to the real property hereinafter described, and all the right, title and interest that the estate has by operation of law, or otherwise acquired, other than or in addition to that of said deceased, at the time of his death, of, in, and to the following described real property, situated in Columbia County, State of Oregon, to-wit: The NW 1/4 of Section 32, Township 4 North, Range 2 West of the Willamette Mer. and containing 160 acres, more or less.

Terms and conditions of sale: Cash in Gold Coin of the United States; ten per cent of the purchase money to be paid at the time of sale; balance on confirmation of sale by the County Court. All bids or offers must be in writing, and mailed to said administrator at Seapooos, Columbia County, Oregon, at any time after the first publication of this notice and before the making of the sale.

Dated April 12th, 1917.  
First publication April 13, 1917.  
Last publication May 11, 1917.  
JAMES LEONARD,  
Administrator of the Estate of Martin Carniff, Deceased.  
W. A. HARRIS & G. A. GORE,  
Attorneys for Administrator,  
St. Helens, Oregon.

YOUR PHYSICIAN'S PRESCRIPTION

When brought to our store, will be accurately and carefully filled and none but the best of drugs used. So both you and he will feel perfectly safe.

WE ALWAYS HAVE IN STOCK  
a large line of Toilet Articles, Stationery, Magazines and Druggist's Sundries

Deming's Drug Store  
Phone 13 ST. HELENS, ORE.

J. L. WILLIAMS & SONS

Successors to Perry & Graham  
A Full and Complete line of General Merchandise  
— The Dependable Kind —

Dry Goods, Shoes and Groceries  
Free Delivery  
Give us a trial and you will be satisfied  
Phone 34 WEST ST. HELENS, ORE.

Your Spring Suit

You should order it now. Come in and look over my line of woollens. During the past month I have made suits for some of the best dressers in the city, and they were

ENTIRELY SATISFIED  
Let me demonstrate to you that for Style, Fit, Workmanship and Good Material, my tailored garments are above the standard.

J. F. RYAN  
MERCHANT TAILOR St. Helens, Oregon

CENTRAL MARKET

RAY MORTON  
Phone 60

The Market of Purity and Quality of Meats both Fresh and Cured.  
Greatest assortment of Lunch Meats in town.  
Highest cash price paid for Hogs and Veal.

A trial will be appreciated. Prompt Delivery

Stimulates Without Reacting—  
Dependable Coffee  
"Tastes Better—Goes Further"  
At Your Dealer's—40c Lb.  
"Country Club," 35c—"Hespo," 30c

Spring Goods Are Arriving

CHILDREN'S GINGHAM DRESSES, 75c to \$1.50  
Dainty and seasonal patterns in all Dress Goods. Shoes for each member of the family.  
DRY GOODS, NOTIONS AND NOVELTIES  
Children's Middies and Ladies' Lingerie Waists  
M. ROSENTHAL

WHY EXPERIMENT?  
DRIFTED SNOW FLOUR

In competition with ALL OTHER FLOURS received the highest possible award, the GRAND PRIZE at Panama-Pacific International Exposition  
Use the best and you are always satisfied  
MASON, EHRMAN & CO., PORTLAND OREGON

GARDEN PESTS MUST BE GUARDED AGAINST

Home Gardeners Should Prepare to Combat Insects.

Now that the back to the soil request of the government is being responded to by many citizens of Columbia county, some of whom have not had agricultural experience, the information following, which is sent out by the United States department of agriculture, will be of much aid and assist in the work of raising food stuffs. Read all of it carefully.

The home gardener must count almost inevitably upon the presence in his garden of plant diseases and pests, says a new Farmers' Bulletin No. 818, "The Small Vegetable Garden." It is pointed out that if these are not combated they will interfere seriously with yields or destroy the plants.

It is hard for some gardeners to realize the importance of making early provision to combat these enemies of plant life. It can not be too strongly emphasized, however, that such provision is of equal importance with other phases of gardening and that it should under no circumstances be neglected. The wise gardener does not wait for the appearance of insects and diseases, but takes steps to combat them by spraying the plants at reasonable intervals from early spring until his crops have been harvested, or by other protective measures. He thus insures himself against the likelihood of loss.

The necessary implements and materials for protecting the home garden against insects and diseases should be assembled early in the season. These consist of a substantial hand sprayer and the necessary concentrated solutions, which, after dilution with water, are to be sprayed on the plants.

The diseases which affect garden plants may be divided into two groups, parasitic maladies, such as the blights, are caused by fungi or germs, and usually may be prevented or controlled by spraying with Bordeaux mixture. Little is known, however, of the so-called constitutional diseases, and little can be done to prevent their ravages. If some malady which does not yield to treatment with Bordeaux mixture manifests itself on isolated plants in the garden, it may be well to pull up these plants and burn them.

The insects which attack garden plants may be divided into two groups—those which eat or chew the fruit or foliage and those which suck the plant juices. Eating insects may be killed usually by spraying poisonous solutions or dusting powders on the plants which they attack. Arsenate of lead is the poison in most general use for this purpose. This substance is poisonous to persons as well as to insects and must be used with care. It should not be applied to vegetables that are to be used soon. All vegetables should be washed carefully before they are eaten, regardless of whether they have been sprayed.

Some Philosophy

The idle moments taken when one feels like it are not idle moments at all; they're simply a change of occupation.

Every man needs recreation, but no well man needs idleness. Most of us get tired of our jobs now and then, but we also get tired of ourselves. The things we love best very frequently get on our nerves. And so, 't is no argument that work is not a pleasure if it doesn't run along smoothly without unpleasant interruptions. Work is a demand of nature. If we want knowledge we have to work for it. Nothing comes to us worth while unless we work for it. And as things worth while make our happiness, Happiness can be safely credited to work.

Mowing pasture lands when the weeds are in full bloom is an excellent practice, as it prevents the formation of weed seeds. Most weeds, even of the perennial type, can gradually be brought under control if they are not allowed to produce seed for several years in succession.

Other methods of protecting plants from the larger eating insects are to pick the pests by hand or knock them with a stick into a pan containing water on which a thin film of kerosene is floating. Insects collected by hand should be destroyed promptly. Young plants may be protected by setting over them wooden frames covered with mosquito netting, wire mesh or cheesecloth. Cutworms may be kept from plants by setting tin or paper collars into the ground around the stalks.

Sucking insects, such as plant lice, can not be killed by poisoning the surface of the leaves and fruit, since they feed by puncturing the plants and extracting the internal juices. Poisons which will kill by contact or substances which envelop and smother the pests are, therefore, employed against the sucking insects. The principal remedies of this sort are nicotine solutions, fish-oil and other soap solutions, and kerosene emulsion.

The gardener should remember that many plant diseases and insects exist in the garden from year to year. At the end of the growing season, therefore, the garden should be carefully cleaned of rubbish, the stems of plants, leaves, etc. It is necessary to burn this debris promptly, as any disease spores or insects which may be present are then surely destroyed.

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FIRE ALARM BOXES

Beckie's Corner	23
Barberford's	22
Barber's	24
City Hall	32
School	33
C. Gray	34
Central Grocery	42
Wedge Hotel	43
Wedge Creek	44
Wedge's	52
Hospital	53
West St. Helens	54
Depot	54
Wedge's Corner	55

S. P. & S. TIME TABLE

From Portland		
Leaves	Arrives	
Portland	St. Helens	
No. 21	8:10 a. m.	9:12 a. m.
No. 25	12:25 p. m.	1:33 p. m.
No. 27	5:15 p. m.	6:23 p. m.
No. 23	6:15 p. m.	7:09 p. m.
To Portland		
Leaves	Arrives	
St. Helens	Portland	
No. 25	7:59 a. m.	9:15 a. m.
No. 22	11:16 a. m.	12:20 p. m.
No. 25	3:31 p. m.	4:40 p. m.
No. 24	8:52 p. m.	9:50 p. m.

Buses leave for station about 20 minutes in advance of above time.

E. W. KETEL  
St. Helens, Ore.  
Contractor--Builder  
ESTIMATES, PLANS  
Cement Work a Specialty  
Phone Connection

To the PUBLIC!

STEAM, TURKISH AND SHOWER BATHS  
Every Day  
at Kaleva Hotel  
Courteous treatment and sanitary arrangements.  
Visitors to inspect will be welcomed

George's Market  
ST. HELENS  
FRESH AND SALT MEATS  
PHONE 48 Prompt Service

Kill at once every fly you can find and burn his body. It is definitely known that the fly is the "carrier" of the germs of typhoid fever; it is widely believed that it is also the "carrier" of other diseases, including possibly infantile paralysis.  
Always trade in your home town.