

Grass Valley Eastern Star Elects Officers

Members of the Eastern Star met at the Masonic hall last Tuesday with a pot luck dinner followed by the business meeting when the following officers were elected: Vivian Ball, worthy matron; Ted Ball, worthy patron; Velma Bibby, associate matron; A. A. Dunlap, associate patron; Alta May, secretary; Ellen Reynolds, conductress; Mauna Clevenger, associate conductress; Wallace May, treasurer.

Mrs. A. A. Dunlap and Mrs. Arzell Lemley went to The Dalles Monday on business, returning home Tuesday.

Mrs. Tom Alley entertained the members of the Grass Valley bridge club at her home Wednesday afternoon with three tables of bridge in play with Mrs. Art Bibby holding high score for the afternoon. Mrs. Edgar Alley received guest prize.

Mr. and Mrs. George Smith took their daughter, Judy, to The Dalles Wednesday for medical attention.

Glen Karnes returned home Wednesday from Madras where he had been employed for several months.

Mr. and Mrs. Louis May and children came up from The Dalles Sunday to visit a few days with her parents, Mr. and Mrs. I. D. Pike.

Mrs. Henry Roth of Olympia, Wash., arrived here Thursday to visit her daughter, Mrs. Kenneth Crews and her son, Arthur who expects to leave soon to join the navy.

Mr. and Mrs. Frank Pike entertained at a dinner Wednesday evening in honor of Kenneth Barnett, Ross Fields and Arthur Roth. Other guests present were Mr. and Mrs. I. D. Pike, Mr. and Mrs. Willard Barnett, Mr. and Mrs. Don Smith, Mrs. Kenneth Barnett, C. W. Fields, Mrs. Elma Rawleigh, Doris Newcomb and Robert Schilling.

Mr. and Mrs. C. R. Anderson, Mrs. Glen Karnes, Mr. and Mrs. H. O. Dugger were visitors in The Dalles Friday.

Mr. and Mrs. Joe Bibby, Mr. and Art Bibby, Mr. and Mrs. Eben Kee and Mr. and Mrs. George Smith motored to The Dalles Thursday evening to celebrate the eighth wedding anniversary of Mr. and Mrs. Joe Bibby.

O. M. Fraley returned here Wednesday evening from Pullman, Wash., where he had spent several weeks with his son in law and daughter, Mr. and Mr. Edison Sutherland.

Don't forget the entertainment bazaar and turkey raffle at the IOOF hall Saturday evening Dec. 12th.

Mrs. Faye Beyers and daughter, Thelda of Shaniko were business visitors here Monday.

Don Cox returned home one day last week from a trip to Corvallis, Silverton, Salem and Portland where he spent several days visiting relatives and friends.

Mr. and Mrs. Kenneth Barnett spent Thursday night as guests at the home of his parents, Mr. and Mrs. Tommie Barnett.

Among those who attended the band concert at Moro Friday evening were Mr. and Mrs. Ed Allen, Mr. and Mrs. William Beck, Mrs. Estel Hartley, Mr. and Mrs. George Wilcox, Mrs. A. A. Dunlap, Mr. and Mrs. Kenneth Barnett, Mrs. Arzell Lemley, Myrtle Helyer, Ethel Barnett, Ross Fields and Art Roth.

A. A. Dunlap, R. J. Baker, T. M. Rolfe, V. B. Eakin and Millard Eakin returned home Saturday night from LaGrande where they had attended the Eastern Oregon Wheat League meeting. Millard was elected president for 1943.

Mr. and Mrs. J. S. Newcomb, Miss Harriet Cole and Miss Emma Jean Scholl were visitors in The Dalles Saturday.

Mr. and Mrs. Paul Wilson entertained at a dinner Saturday evening at their home in honor

FARM TRACTORS IN WARTIME

High-Compression Tractor Engines

(Fourth of a Series of Six Articles)

By A. P. Peck

Managing Editor, Scientific American

More work to be done with less labor to do it, is the situation that now faces farmers throughout the country. Thus it is up to the farmer to do everything possible to obtain the highest efficiency from his farm equipment and this, of course, involves principally his tractors.

Of the 1,800,000 tractors on American farms today, there are



A. P. Peck

hundreds of thousands that are more than six years old. These were built during the years when it was the usual thing to compromise the design of tractor engines to enable them to burn any fuel the owner happened to choose; gasoline, distillate or kerosene. When, however, one progressive manufacturer designed a tractor engine to take real advantage of gasoline and brought out a high-compression tractor in 1935, it was well received by farmers and other manufacturers soon followed the leader. This first high-compression engine out-performed distillate-burning engines in every respect.

In order to understand the difference between gasoline and distillate as a fuel for tractor engines, it is necessary to know something of the way in which an engine operates. All internal-combustion engines, whether for use in automobiles, trucks, or tractors, produce power by burning a mixture of fuel and air in a series of cylinders. The fuel is vaporized in the carburetor, mixed with air, and drawn into the cylinder as the piston goes down on the suction stroke. As the piston comes up it compresses the mixture, which is then fired by the spark plug. As the mixture burns it produces a steadily increasing pressure which forces the piston down.

The amount of useful power that a tractor engine develops depends on the size of the engine, the speed at which it turns, and the pressure developed by the burning of the fuel in the cylinders. The first two of these factors cannot easily be changed after an engine has been built, but it is entirely possible to increase the pressure in the cylinders. One way to do this is by high-compressioning the engine and another is to let the engine breathe more fuel and more air on each piston stroke. This latter can quickly and simply

be accomplished by changing manifold controls from "hot" to "cold" positions and removing any metal shield or "stove" that happens to be present, if gasoline is burned.

Here's what happens when the change is made. Gasoline vaporizes at a much lower temperature than distillate. Therefore the manifold temperatures required with gasoline are lower. This in turn means that the air mixed with the fuel will be cooler and therefore heavier than the air that goes through the hot manifold of a distillate-burning engine. Since the air-fuel mixture is cooler and heavier, a greater weight of fuel and air, and hence a greater quantity, is drawn into the cylinders. This greater quantity of fuel mixture is then compressed into the same space as would be the smaller quantity of distillate mixture. Therefore, there is increased pressure and the gasoline-burning tractor—as compared with the distillate-burning unit—will pull greater loads or get over the ground faster in high gear. If these changes are made, of course, the tractor will not run on distillate or heavier, hard-to-vaporize fuels, and other changes necessary should be made. These include adjusting carburetor for gasoline, and installing "cold" or gasoline-type spark plugs.

The greatest advantage of using gasoline, however, is obtained by high-compressioning the engine. This involves replacing the pistons with high-compression or "altitude" pistons and making the other changes mentioned above. By such a change it is usually possible to increase the power of the engine by as much as 30 percent over that obtained with distillate. The change-over to high-compression can be done by the farmer himself if he is so inclined and equipped, or it can be done at a garage. In any event, the cost of the new parts is no greater than would be the cost of the same number of replacements in an ordinary overhaul. Because of the present shortage of parts, however, it is not recommended that tractor engines be high-compressioned until they are due for an overhaul anyway.

(Next Week: Gasoline for Less Wear and Tear)

will make their home in Portland. The Gervais' formerly lived in Grass Valley.

Donald vonBorstel, son of Mr. and Mrs. Ted vonBorstel, left Saturday for Baker where he will spend two months in civilian pilot training preliminary to entering naval aviation.

Mrs. B. Ward Thornton stopped here Monday evening on her way from Portland to Prineville and is a guest at the home of Mr. and Mrs. Art Bibby. Mrs. Thornton will visit friends here several days.

A layette shower was given for Mrs. Alfred Payne at the IOOF hall Saturday afternoon. After the gifts were opened refreshments were served by Mrs. Boyce Blaylock and Mrs. Clyde Stradley.

HI-WAYS TO HEALTH by ADA R. MAYNE OREGON DAIRY COUNCIL

THE BOX FROM HOME

The boys at camp are going to get plenty of food on Christmas. Both the army and navy training camps have already planned the Christmas dinner menus and have included generous quantities of good foods for the feast. But just the same a box of food from home is something special and will get a warm welcome because it is from home.

Never try to send any food that might spoil in transit. Even if your boy loves your fried chicken better than any food on earth, don't try to mail it to him at Christmas. A few days wait near

a post office radiator will make that chicken unfit to eat when it arrives. Food in the box from home should be able to stand heat and cold, shaking and knocking about, and as much as ten days wait in the mail.

When you are deciding what foods to put in the Christmas box think first of the foods your boy likes best at home. Any of his favorite foods that will ship well deserves first place. Most boys have a fondness for cookies, especially if the cookie jar has played a real part in his family life. The cookies that travel by mail best are the firm, rather soft, thick cookies, rather than thin brittle snaps that break easily, or crumbly butter cookies. Square cookies pack better than round. Chocolate brownies and date bars made with honey or sirup travel well and receive a hearty welcome at camp. Brownies, frosted on all four sides to keep them moist, then wrapped in individually and packed closely in tin boxes, will stand a long trip. So will date bars and other firm cookies made with dried fruit. Be sure to pack cookies so well that they do not shake around loosely in the box.

Most boys enjoy the ginger bread softness of molasses cookies—and for them especially we suggest Molasses Hermits. These golden cookies, plump with raisins, soften and mellow in flavor on standing.

Molasses Hermits

1-2 cup butter, 1-2 cup sugar, 1 egg, 1 cup molasses, 3 cups sifted flour, 1-2 tsp soda, 3 tsp baking powder, 1 tsp ginger (or 1 tsp cinnamon and 1 tsp cloves), 11 tsp salt, 1-4 cup sour-milk or buttermilk, 1 cup raisins.

Cream together butter and sugar. Beat egg and add. Add molasses and mix thoroughly. Sift together flour, soda, baking powder, ginger and salt. Add to creamed mixture alternately with sour milk. Add raisins. Drop by teaspoonfuls on buttered baking sheet. Bake in moderately hot oven (400 deg) about 10 minutes. Yield: 7 1-2 dozen, 2-inch cookies.



Buy War Bonds Today

T. Lester Johnson
LAWYER
WASCO MORO

Utah Family Visits Relatives At Kent

Mr. and Mrs. Cecil Cunningham of Ogden, Utah were visitors here at the home of Mrs. Cunningham's parents, the George McKays.

Mr. and Mrs. Cecil Cunningham, Mrs. George McKay and Nelma Schadewits were dinner guests of the Jay McKays Sunday.

Mr. and Mrs. James Matthes were visitors in The Dalles Saturday.

There was quite a number of men from here in Grass Valley Tuesday morning to attend a meeting about railroad requisition at Dunlap's office.

Norris Gilkison was a visitor in Kent one day last week.

W. E. Gunther was an all day visitor to Grass Valley Sunday.

Mrs. O. E. Smith of Portland was a weekend visitor here at the William Jefferies home.

Mrs. Charles D. Smith left last Thursday for her home in Bismarck, North Dakota.

Mr. and Mrs. J. H. Wilson had

Mr. and Mrs. Shelton Fritts and family of Grass Valley as their guests for Sunday dinner.

Misses Doris Stiles and Leona Sather were shoppers in The Dalles Saturday.

Rev. O. W. Jones, Mr. and Mrs. Tom Preece and Mrs. Ivageus Price were business visitors in Moro Saturday.

Mr. and Mrs. George Wilson and

sons, and J. M. Wilson were business visitors in The Dalles Saturday.

Mr. and Mrs. Vern Mobley and family were visitors at the J. J. Decker ranch Thursday.

Mr. and Mrs. Paul Wilson took Mrs. Charles D. Smith to The Dalles Thursday where she caught the train for North Dakota.

BE OF GOOD CHEER this Holiday Season!

ENJOY • SERVE • GIVE

the whiskey that's "CHEERFUL AS ITS NAME"

OLD SUNNY BROOK BRAND

KENTUCKY STRAIGHT BOURBON WHISKEY

National Distillers Products Corp., N. Y. • 90.4 Proof



From the Store of Gifts Galore

For Women

Gowns-lovely printed crepes, satins tailored and plain, rose, peach, blue nile, maise \$1.98 to 3.98

Pajamas-printed cloth of rich satin, soft crepes, rose, peach, blue nile maise 2.50 to 3.50

Slips-tailored satin for long wear, guaranteed seams-tearose & white 1.49

SACHET gift novelties spice balls, dresser drawer sets. 25-30.00

Gloves, Hosiery, Handkerchiefs, all gifts for a woman's Xmas. 1.00

FOR GIRLS

Satin Slips—pastel colors, the thing a girl loves. 2 to 16. .79-1.98

Pajamas, warm "tuck stitch" 6 to 16 special price! .98

Mittens, Gloves, Head Squares, the right gifts for a girl this winter. .69

Robes, Chenille Housecoats, a gift to be used and appreciated by girls. 6 to 16 2.50 to 3.98

For Men

Shirts-Give him plenty of 'Wilson' and 'Mark Twain' quality dress shirts 2.--2.50

TIES-the biggest gift item for men. See thousands of patterns here .55 to 1.50

ROBES-A man needs a nice robe. You'll find the right one here 3.98 to 17.50

SOX-have a special appeal for Christmas We have all styles & colors .35 to 1.00

Fine Sport Shirts, Belt, Men's Initial Jewelry Handkerchiefs. —Gifts for men of all ages.

For Boys

Tom Sawyer, sport shirts for real boys, fine gifts. 1.49

Warm Mitts "Sno-pruf" horse hide, warm lining. 1.00

Ear Muffs, bright colors, warm lambs wool. .50

Socks for boys, a gift most likely to succeed. .29

Give a boy, something to wear!

SALE! LADIES' COATS

Special event on all our fine winter coats Every coat in the house priced to sell quickly! See these bargains at once!

Reefers, boxy and fitted models, fleeces, tweeds, plaids, every coat style is here! But hurry to get first choice

10.87 14.87 19.63 22.63 27.79 33.79

Six big groups. These sale figures are way below our ceiling prices! Buy your coat for winters to come NOW! Take the elevator, no need to walk up!

Christmas Gifts for the Homemaker

Pillows Satin, damask novelty sofa pillows, beautiful gifts. 1.25 to 3.50
Bedspreads, featuring Bates and finest "CABIN CRAFTS" 3.98 to 25.00
"MARTEX" Towels Sets fine gifts for every household. 1.00 to 10.00

Blankets, Comforts, our Gift Stock is the best ever. See them all. 7.95-22.50

Linens, fine Irish linen sets, Lace dinner cloths Scarfs, Chair sets, Bridge sets, Luncheon cloths. We feature finest linen gifts. 1.00-25.00

Make Our Store Your Christmas Store Mail Orders Promptly Filled Don't climb stairs—Take the elevator

Merry Christmas Edw. C. Pease Co.

DEPENDABILITY

In these times more than usual it is important to have a dependable grocer-- In wartime prices and quality and even quantities are subject to change.

Quality here will be good, prices will be fair and quantities what is allowed.

Zeigler's Quality Store Grass Valley