

PROGRESS

\$130,000 has been county during past... deposit coal found... power line be... Myrtle creek... city hall will... occupancy... planning \$1,000... Bay Country club... mine in Mormon... monthly payroll... assessed valu... increase of \$2... Knitting Mills... addition to mill... work at... Canning Co... \$100,000 and... Clackamas County... City Park to get... Banking Co. to... contract award... St. Mary's Home... new Parson... to build 50-

Salem—Construction starts in new \$50,000 Court Street Christian church. Oregon City to improve street lighting system. St. Helens lumber shipments total 4,000,000 ft. for week.

SHORT COURSE IN DAIRY MANUFACTURING

The Dairy Department of the Oregon Agricultural College, Corvallis, Oregon, will offer a short course in Dairy Manufacturing beginning January 7, 1924 and continuing until February 2, 1924. This course will consist of practical work in buttermaking, ice cream making and cheese making. Three lectures per week will be spent in the Creamery, where practical work will be given to demonstrate the points brought out in the lectures. In addition to the above courses, lectures will be given on factory management, judging dairy products, bacteriology and on testing dairy products.

The College Creamery is in continuous operation and is operated on a strictly commercial and self-supporting basis. The equipment in our creamery is complete and of the most up-to-date type.

This is an opportunity for men interested in dairy manufacturing to pick up the most up-to-the-minute information along their line. Creamery operators must take into consideration that the competition of today has cut the profit to a very narrow margin. Efficiency is the all important problem and is becoming all the more so each year. Creameries op-

erating at a profit are those creameries putting quality into their product along with efficient creamery management. "Increased Efficiency and Quality" is our short course slogan.

In the past this department has offered a four weeks' course in January to inexperienced men and a four weeks' course in February to experienced men. This year, however, the course for experienced men only will be offered.

Laboratory fees amounting to \$15 are the only charges made in connection with this course, while board and room can be secured in Corvallis for approximately from \$30 to \$35 per month. For further information, write the Dairy Department, Oregon Agricultural College, Corvallis, Oregon.

Course 1. Dairying.

Four weeks course for Buttermakers, Creamery managers, Cheesemakers, and Ice Cream makers.

Laboratory practice. Pasteurization of sweet and sour cream. Preparation of starters. Cream ripening. Churning. Butter and Cheese judging. Testing milk and cream. Moisture, salt, fat determinations in butter, cheese and ice cream. Acidity tests. Refrigeration. Cheesemaking. Ice cream making.

Lectures

1. Buttermaking (eight lectures), 16 laboratory periods. Starters—one lecture. Neutralization of cream. Pasteurization of cream—two lectures. Cream ripening—two lectures. Churning—one lecture. Workmanship of butter. Moisture control in

butter—one lecture.

2. Creamery Management (eight lectures). Purchasing milk, cream and supplies—one lecture. Marketing products of creamery—two lectures. Creamery losses—one lecture. Creamery accounting—four lectures.

3. Special lectures. Butter judging and demonstrations. Dairy engineering. Feeding and breeding of dairy stock. Creamery by-products for hog feeding. Factory sewage disposal. Milk and cream judging. Review of the Dairy laws.

4. Bacteriology (Eight lectures and four labs.) Bacteria-general consideration. Entrance of bacteria into milk and cream. Changes produced

in milk by bacteria. Relation of temperature to growth of bacteria in milk and cream. Relation of milk to spread of disease. Fermented milks. Bacteria in relation to ice cream making. Importance of bacteria in market milk.

5. Creamery tests (4 laboratory periods, 4 lectures) Milk and cream testing, acidity tests, ice cream and total analysis of butter. Bacteria in relation to butter making. Bacteria in relation to cheese making.

6. Ice cream making (eight lectures, eight laboratory periods). Standardization of cream, testing ice cream for fat, methods of measuring swell, standardizing the mix, importance of

milk solids and total solids, comparisons of different formulas.

Course 2.

Course for Cheesemakers. One laboratory per week. Manufacture, home-trade, and export types of cheese, manipulation of various quality tests of milk, practice in whey separation etc.

Lectures

1. Cheese-making (8 lectures, 4 laboratory periods). Manufacturing Cheddar cheese—2 lectures. Starter preparation and Rennet substitutes—one lecture. Defects and remedies in cheesemaking—two lectures. Paraffining, boxing and shipping cheese—1 lecture. Whey separation—one lec-

ture. Paying for cheese milk—two lectures. Factory organization and construction—two lectures.

2. Creamery tests (4 lab. periods.) Acidity tests—one lab. period. Lactometer and its uses—one lab. period. Fat and water determination in cheese—one lab. period. Determination of Casein in milk.

3. Cheese and butter scoring (four lab. periods.)

4. Dairy chemistry. (4 lectures—4 laboratory periods.) Elements of dairy chemistry. Determining composition of dairy products.

For further information, address the O. A. C. Dairy Department, Corvallis, Oregon.

GRAND LEADER

Tillamook, Oregon

The Christmas shopping is now in full blast at our store

Vanity Boxes

A large assortment to select from.

50¢ to \$4.95

New silk

Camisoles

In flesh color

98¢ to \$1.95

New lace trimmed

Bureau Scarfs

Table covers from

95¢ to \$1.95

Mamma

DOLLS

All kinds to pick from \$1.50 to \$4.95

Men artificial Silk Socks Brown, Black and Grey 50¢ Pr.

Ladies

Silk Hose

All colors

\$1.25 to \$2.50

New assortment ladies

Silk Waists

Wonderful values

\$5.95 to \$9.50

Latest shirred Elastic

All colors

50c and 95c Yard

Girls

Mittens

All new colors

50¢ Pair

All kind of new

Baby Blankets

85¢ to \$2.50

Scotch

Golf Gloves

All new colors long cuff wrists.

Girls \$1.50

Ladies \$1.75

Great assortment bead

Necklaces

All fine colors

95¢ to \$1.50

Ladies silk

Umbrellas

All colors

\$4.95 to \$9.50

LADIES

Handkerchiefs

in holiday boxes

95¢ to \$2.35

A large collection of toys for the little ones at a great price saving

Christmas Gifts of Quality

New Up-to-Date Greeting Cards

Beautiful designs, beautifully engraved. Very large assortment to select from. Wide range of prices to suit every purse. We suggest an early inspection while our stocks are fresh and clean.

DOLLS DOLLS

We have a wonderful assortment of dolls with prices to suit everyone.

Mamma dolls with composition head, arms and legs, stuffed body and fully dressed. Some that sleep as well as talk and walk.

\$1.15 to \$7.50 Many other dolls, small large, dressed and undressed 25c to \$6.00

Gift Stationery

We have a larger and better assortment than ever before. Stationery of highest quality in all sizes, shapes and tints, in pound boxes, ruled or plain, with envelopes to match each kind. Prices range from 50c to \$5.00

For Men

Flashlights 65c to \$3.75

Military Brushes \$1.50 to \$10

Fountain Pens \$2.50 to \$8.50

Kodaks \$2.00 and up

Shaving Requisites

Ash Trays and Stands 35c to \$5.00

Stationery 50c to \$4.75

Books

Bill Folders \$1.00 and up

Pocket Books

Fishing Rods and Tackle

Field Glasses \$6.00 to \$20.00



For Women

Fine Stationery 50c to \$4.75

Perfumes and Toilet Waters 50c to \$3.50

Hair Brushes

Manicure Outfits 60c to \$42.00

Candy

Vases \$1 to \$4.75

Baskets 25c to \$5.00

Sewing Baskets 75c to 2.25

Books

Pyralin Ivory

Photo Albums 40c to \$4.75

Bread Boards \$2.50

Candles 50c to \$1

Serving Trays \$1.25 to \$3.00

PERFUMES

IS A GIFT WHICH ANY WOMAN WILL APPRECIATE

Jontee Sets \$3 to \$7.50

Banquet Rancee Sets \$6

Colgates Cha-Ming Sets \$3.75

Colgates Florient Sets \$3.75

Corra Nome Sets \$5.50 and \$10.00

PYRALIN IVY

The nicest gift of them all. Our counters are overflowing with these beautiful and useful articles.

Mirrors Hair Receiv'rs

Combs Powder Boxes

Brushes Jewel Boxes

Trays Picture Frames

Sold in sets or in individual pieces to match the pieces you already have. We carry both the DuBarry and Conventional styles.

BOOKS

Books for every member of the family. Fiction, romance, history, essays, poetry. The latest popular copyrights. Books that will make pleasing gifts and pleasant hours for the recipient.

XMAS GRAB BAGS 50¢

Lots of fun and pleasant surprises. Each package contains merchandise with a retail value of from 50c to \$5. Also 50,000 German marks in each package while they last.

Chas. I. Clough Co. The Rexall Store

TILLAMOOK

OREGON

For Christmas Buying

This store's ability to serve you quickly—to make shopping a pleasure—make a dollar go as far as two does in most places. Come, judge for yourself, compare prices and see the great showing of things to give on Christmas morning for men, women and children. For your convenience, for quick intelligent buying and selling the entire store is brought forth things suitable for gifts, expressly condensed and dis-

countainably price marked. You will be agreeably surprised, not only by the lowness of the prices, but by the vastness of the lines shown, for the store is growing and we are sparing no time, time or energy to make this store one of the greatest in Tillamook. It can be done—we are on our way.

Silk Shirts

Silk shirts make perhaps the most acceptable gift for men. We are showing a beautiful line at unequalled values. They are wonderfully attractive in appearance, the patterns and colors are as smart and inviting as any one can imagine. An extra one or two will always be acceptable.

Blankets and Robes

In doubt just buy a nice fluffy robe or blanket for father or sister. They are sure to be at the time and for years to come, will be evidence of the gift that will.

Men's Neckwear

Hundreds. The smartest and latest styles and patterns. The things you will be pleased with—arrangements handy for busy men.

Handkerchiefs

Finest hand embroidered Irish, French and Swiss, to the finest products of our own looms have priced as low as a single cent. A varied selection you will find in the handkerchief stocks.

House Slippers

For men, women and children, are always acceptable, useful and appropriate. You will find a desirable stock to choose from.

Vivette Underg'mts

For ladies are becoming mighty popular. They make pleasing gifts. "Vivette" is combed mercerized cotton and silk. It looks like all silk but is much cheaper.

Buster Brown Shoes

Take the lead. No better shoe is made—none carry a strong guarantee. They give satisfaction—they are priced right at this "cash store". That's why we are doing the large volume we are with Buster Brown shoes.

Make the Kiddies happy on Xmas morn with a new pair.

You will find in the Grocery Department an assortment of the best candies at lower prices. Come see this Christmas store for we are ready for Christmas. Only a few things have been mentioned.

It Pays to Pay Cash at

PARSON & HECHTNER

After you are tired out from shopping visit the rest room and rest in one of the comfortable chairs. You are welcome. You are not obligated to buy.