

# WAR UPON RATS NEEDED TO PROTECT NATIONAL HEALTH

Dr. Hodge, yesterday afternoon at the public library gave the first of a series of lectures the subject being, "Conservation of National Health."

He said that as yet we had no national bureau whose purpose would be the maintenance of public health, on the other hand millions of dollars were spent to conserve the health of domestic animals. The anti-tuberculosis campaign had its beginning but a few years ago, but striking progress had already been made; the mortality rate had decreased one-half in thirty years.

Dr. Hodge declared that he had been severely criticised in 192 when he issued his book on nature study for incorporating lesson on bacteria. Elementary lessons in bacteriology should be given in the grades of the public school, lessons in cleanliness, the purpose of heat in cooking and in ironing clothes may be readily grasped by the elementary pupil; more advanced work in biology and bacteriology should be given in the high school. Nine tenths of all diseases are caused by infection. Every pupil in the schools ought to understand the nature of bacterial infection.

Cats and dogs are active agents in spreading disease in a neighborhood. Rats are another dangerous source as they are semi aquatic and haunt the sewers, thus acquiring disease germs notably typhoid.

The menace of the bubonic plague synonymous with the Black Death of the middle ages is an ever present one on this western coast. In 1907 77 white people died in San Francisco of this disease while 5,200,000 in India succumbed at the same time, this difference resulting from fighting with modern scientific thought and methods and the Oriental fatalistic inertia. Rats are the primary source of this disease, the fleas thereon being the active intermediary. Thus are rats and men tangled in a biological relation.

We should give this problem serious attention in view of the approaching influx of immigrants at the opening of the Panama canal and the great number of visitors attracted by the exposition in 1915. There must be co-operation in the extermination of this pest if effective results are obtained.

From a single pair of rats there may be 1250 living descendants at the end of the year. Squirrels and fophers should be included in this war of extermination. Rats consume \$200,000,000 worth of grain each year, this alone should be sufficient incentive to kill without the more vital one of the effect upon public health.

The problem of the extirpation of the mosquito and the concomitant disease, malaria, is not a serious one in this locality but in all places where there is stagnant water and marshes is an ever present and pressing one. Dr. Hodge gave a striking illustration of what may be done along the line of mosquito eradication by telling what they did in Worcester, Mass., his home town. The students of Clark University were enlisted in this campaign and under scientific direction great changes were brought about by drainage and oil. Malaria was almost eliminated.

The danger from infection from social vice is an ever present and menacing one. In overcrowded factory towns this is at its worst. Here the ignorant foreign born parent is not to be trusted in giving instruction to the young and it should be given by careful cautious teachers in the grades in connection with nature study work and in the high school in connection with biology and bacteriology.

## "Lady Babbie" Feature at Star Theater Today.

Opening at the Star today is a three part story of "Lady Babbie."

This costume production, laid in Colonial days, for richness, accuracy of settings and costuming and romantic atmosphere is superior to anything ever done by the Universal-Edclair company. Who has not read that great historical, romantic novel, "Richard Carvel," written by Winston Churchill. As a novel it was supremely fascinating—it was one story in a century. Well he is a dramatic replica of that book. It is not the same story—it is much different—but the picture has that same adventurous spirit, a love story that in its way is quite as delightful and the same exquisite atmosphere of Colonial days when men took the sword and as readily died for their lady as eat a meal.

The other numbers on the program are the ever popular Animated Weekly and the bill closes with a very clever and laughable vaudeville act.

# MEDFORD MAN WRITES LETTER TO FORMER HOME

J. N. Haven of the Home Telephone company has set a good example to former residents of the east now living in the Rogue river valley, by sending the editor of the paper published at his former home a small sample box of apples and a letter descriptive of Medford and the Rogue river valley. The letter was published in the Ravenna, Ohio, Review, and results in much advertising for this section. If everyone in the valley will follow this example, Medford will soon become the best known city in the country.

Mr. Haven's letter is over two columns in length and in part reads as follows:

"In reading the columns of your paper from week to week I notice letters from different ones, descriptive of the parts of the country through which they have traveled and as I have never noticed anything from southern Oregon I thought that my old friends and acquaintances might be interested in the place which I now call home.

"Jackson county, in which the greater part of the Rogue river valley is located, has an area of 3000 square miles. The Rogue river valley, with an average altitude of 1500 feet, covers the half of the county's area. This county is bounded on the south by California along the summit of the Siskiyou mountains; on the east by the crest of the Cascade range on the west and north by low-lying mountain ranges, the highest of which are about 4500 feet. Through the northern end of the valley flows the Rogue river.

"The climate is one of the alluring things about the Rogue river valley. The thermometer seldom gets lower than 20 degrees above zero, and on the hottest days ranges from 90 to 100 degrees, dropping to 60 and 70 at sundown, the nights always being cool. Owing to the absence of humidity, the heat is never oppressive. The average temperature for the year is 52 degrees. The average rainfall at Medford is 21 inches, most of it coming during the months of November, December, January and February, although there are frequent showers during nearly all of the other months. Most of the winter weather consists of frosty nights and bright sunshiny days. Joaquin Miller first styled the Rogue river valley 'The Italy of America,' and the title is deserved, as the climate corresponds very closely to that of Florence, known as the earth's paradise.

"Medford, the metropolis of the valley is a city of 10,000 population, and is situated in the heart of the Rogue river valley, on the main line of the Southern Pacific railroad. Its water system is one of the best, being piped from lakes situated in the high mountains twenty-five miles away, which gives the user the satisfaction of good, pure, cold water. It is a city of beautiful homes, paved streets, good schools, and in fact everything to make life worth living.

"The hunter and angler who he takes down his gun and vest and starts searching for a place to go can do no better than to buy a ticket to Medford, for there is an abundance of game and fish. Bear, deer, cougars and wildcats are numerous in the mountains, and an average hunter can take the three deer allowed by law in one day. In addition, the valley abounds in small game, such as wild geese, ducks, grouse, Chinese pheasants, mountain quail, snipe, squirrel and rabbits. The streams are well stocked with mountain trout, cut throats and rainbow and chinook salmon, and last but not least, the steelhead, which attains a weight of fourteen pound.

## HYOMEL RELIEVES IN FIVE MINUTES

If your head is all stuffed up from a cold or catarrh, you suffer with dull headaches and seem lacking in vitality, or are constantly sniffing and coughing, you need a remedy that will give the quickest, most effective and lasting relief possible—something that will go right to the spot, clear the head and throat and end your misery.

Surely use Hyomel—all druggists sell it. It is just such a remedy, and is entirely harmless and pleasant to use—you breathe it—no stomach dosing.

The antiseptic oils of Hyomel mix with the air you breathe—its health-giving medication immediately reaches the sore and inflamed mucous membrane—you feel better in five minutes. It is practically impossible to use Hyomel and not only be relieved but permanently benefited. Chas. Strang will refund your money if you are not satisfied. Ask for the complete outfit—\$1.00 size.

and when hooked rises out of the water with a mighty lunge that will bring excited exclamations from the angler, followed by a period of thrills that is not to be excelled, and only to the real skillful is there much chance of success.

"The tourist can never find so many places of interest so close together as can be reached from Medford, two of which I must call to your special attention, Crater Lake and the Marble Halls of Oregon."

"Then follows descriptions of the scenic attractions." "In addition to the scenery, the fruit growing industry, in which the majority of the people are engaged, will prove intensely interesting. Apples, pears and other fruits are grown along scientific lines. The soil is analyzed; and the topography of the land is determined, because the elevation and slope and exposure to wind and weather have distinct effects upon the quality of the fruit. It has also been determined by experiments that each tree requires a definite number of square feet of ground to give the best results. Even in the selection of varieties, good judgment must be exercised, as the marketing of the crop depends upon the keeping qualities and the flavor of the fruit, the choicest variety being shipped to Chicago, New York London and other European centers and even to South Africa, Australia and South America. The apples specialized here are the Spitzenbergs and Newtown Pippins, a half box of which I am shipping by express, prepaid, that you may see and test for yourself. This sorting and packing is the standard for shipments made to all markets. All the fruit is carefully sorted according to size, and all imperfect ones thrown out, then carefully wrapped and packed in boxes, then shipped to the big distributing centers. What I have said of the apple can also be said of the pear. While this is only one of the many great apple growing sections of the country, it is without exception the greatest pear growing section of the world.

"The cost of fruit land varies with the location and age of the orchard, running from \$800 to \$2500 for bearing orchards, and for land close to Medford, cleared and ready for trees, from \$250 to \$800 and by going farther out from \$250 down.

"Hoping that the apples arrive in first-class condition, and that they come up to expectations, both as to quality and appearance, I am, Respectfully, J. N. Haven.

"(The apples did come up to expectations in every way and we appreciate your kindness. Thank you very much. Editor.)"

# ONLY THIRD OF OREGON TILLABLE LAND CULTIVATED

WASHINGTON, D. C., Jan. 15.—

Only 27 per cent of the tillable land of the United States is actually under cultivation, according to estimates of the department of agriculture, based upon reports of 35,000 correspondents. These reports were obtained in order to gain information as to the tillable area of the United States, the amount of land that cannot be used for crops that have to be plowed, but available for pasture or fruits, and the total number of acres that never can be used for agricultural purposes. From the returns, which were generally very consistent, preliminary estimates have been made for each state and for the United States. Further investigation in the far western states may modify somewhat the present estimate for those states.

The entire United States, excluding foreign possessions, contains about 1,900,000,000 acres. Of this area about 60 per cent or 1,140,000,000 acres is estimated to be tillable, that is, capable of being brought under cultivation by means of the plow. This includes land already under such cultivation and that which in the future may be brought under cultivation by clearing, drainage, irrigation, etc.

361,000,000 acres or 19 per cent, are estimated to be non-tillable but valuable for pasture or fruits. Only 21 per cent, or 399,000,000 acres, was estimated to be of no use for agriculture present or future.

According to the census of 1909, the land area in crops where acreage was given was 311,000,000 acre. This is about 16 per cent of the total land area or about 27 per cent of the estimated potential tillable area of the United States, excluding foreign possessions.

In other words, for every 100 acres that are now tilled, about 375 acres may be tilled when the country is fully developed. In the development of the agriculture of the country the land which was most easily brought into a state of cultivation, as the great Mississippi valley, was the first to be brought into such use. Extension of tilled area will be at greater expense for clearing, drainage, irri-

gation, etc. The increased production of the future will be the result of increased yields per acre as well as extension of area.

Detailed estimates, by states, are given in the following table:

Table with 2 columns: State, Cultivated Land (Acres). Includes entries for Oregon, Washington, California, etc.

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Machines for rent, phone 816-X. Repairs, cleaning, oils, needles, parts, phonograph repairing.  
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The "JOHN KELLY" interpretation of the English last is found in this London style. Without going to the extreme this shoe retains its "smart" appearance and is extremely easy and splendid fitting. Blind eyelets—broad shank—recede toe—not too low a heel.  
Tan and black.  
\$1.00  
**Schmidt's**  
OPPOSITE POST OFFICE

The Shoe Store That Is Making Good  
is  
**Behling's**  
It Is Gradually Coming to the Front  
Medford some day will be proud of this shoe store of good shoes at popular prices.  
**Behling's "GOOD FIT SHOE STORE"**  
WE LIKE TO FIT THE HARD TO FIT

Bring us your prescriptions we will fill them with pure, fresh drugs  
**TOILET ARTICLES**  
  
**DRUG STORE**  
Our drug store has become "The prescription drug store" of this community, because people have learned that we take utmost care in filling every prescription entrusted to us; that we never use poor, old drugs; that we never substitute, and give you prompt service. Send your prescriptions to us, no matter what physician writes them, and KNOW that they will be filled just exactly as prescribed.  
**The Rexall Store**  
**The West Side Pharmacy**

**MANN'S** CENTRAL AVENUE NEAR POSTOFFICE  
Do you realize that we are selling every Winter Suit and Coat in the house at exactly **HALF PRICE?** Nothing reserved! All sales final. Do not miss this great Sale--the chance of a lifetime!

1/2 OFF ON WOMEN'S SUITS	1/2 OFF ON WOMEN'S COATS	1/2 OFF ON CHILDREN'S COATS
All \$18.00 Suits now..... <b>\$ 9.00</b>	All \$12.50 Coats now..... <b>\$ 6.25</b>	All \$12.00 Coats now..... <b>\$6.00</b>
All \$20.00 Suits now..... <b>\$10.00</b>	All \$15.00 Coats now..... <b>\$ 7.50</b>	All \$10.00 Coats now..... <b>\$5.00</b>
All \$22.50 Suits now..... <b>\$11.25</b>	All \$18.00 Coats now..... <b>\$ 9.00</b>	All \$ 9.00 Coats now..... <b>\$4.50</b>
All \$25.00 Suits now..... <b>\$12.50</b>	All \$20.00 Coats now..... <b>\$10.00</b>	All \$ 8.00 Coats now..... <b>\$4.00</b>
All \$27.50 Suits now..... <b>\$13.75</b>	All \$25.00 Coats now..... <b>\$12.50</b>	All \$ 7.00 Coats now..... <b>\$3.50</b>
All \$30.00 Suits now..... <b>\$15.00</b>	All \$27.50 Coats now..... <b>\$13.75</b>	All \$ 6.00 Coats now..... <b>\$3.00</b>
All \$35.00 Suits now..... <b>\$17.50</b>	All \$30.00 Coats now..... <b>\$15.00</b>	All \$ 5.00 Coats now..... <b>\$2.50</b>
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Sensational Price-Giving on SHEETS AND PILLOW SLIPS	Sensational Price-Giving on TABLE LINEN AND TOWELS	Sensational Price-Giving on LACES AND EMBROIDERIES
72x90 Salem Sheets, 80c grade, now <b>69¢</b>	60-in. Table Damask, 48c grade..... <b>29¢</b>	15c All Linen Torchon Lace, yd..... <b>5¢</b>
81x90 Salem Sheets, 90c grade, now <b>79¢</b>	60-in. Table Damask, 59c grade..... <b>39¢</b>	15c French Valenciennes Lace, yd..... <b>5¢</b>
72x90 Pequot Sheets, 95c grade..... <b>89¢</b>	72-in. Table Damask, \$1.25 grade..... <b>98¢</b>	10c Cambrie Embroidery, yd..... <b>5¢</b>
81x108 Pequot Sheets, \$1.25 grade..... <b>\$1.00</b>	72-in. Table Damask, \$1.50 grade..... <b>\$1.15</b>	50c Corset Cover Embroidery, yd..... <b>29¢</b>
42x36 Salem Cases, 22c grade, now <b>18¢</b>	Huck Towels, 15c grade, now..... <b>10¢</b>	75c Swiss Flouncing, yd..... <b>39¢</b>
42x36 Pequot Cases, 22c grade, now <b>18¢</b>	Bath Towels, 15c grade, now..... <b>12 1/2¢</b>	\$1.25 Voile Flouncing, yd..... <b>69¢</b>
50x36 Salem Cases, 28c grade, now <b>22¢</b>	Bath Towels, 25c grade, now..... <b>19¢</b>	\$1.98 Swiss Flouncing, yd..... <b>89¢</b>
45-in. Pillow Tubing, 25c grade, now <b>22¢</b>	Bath Towels, 30c grade, now..... <b>25¢</b>	75c Allover Embroidery, yd..... <b>48¢</b>
9-4 Unbleached Sheeting, 28c grade <b>23¢</b>	Bath Towels, 35c grade, now..... <b>30¢</b>	5c Torchon Lace now, yd..... <b>3¢</b>
9-4 Bleached Sheeting, 35c grade..... <b>30¢</b>	Initial Wash Cloths, special, each..... <b>7¢</b>	25c Plat Val. Lace now, yd..... <b>12 1/2¢</b>

**SPECIALS FOR SATURDAY ONLY**  
Colgate's Taleum, per can, **12c** | Clark's O. N. T. Spool Cotton, 6 for... **25c**

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Best quality Dress Prints, yard..... **5c** | Best Cotton Chalks, per yard..... **4c**

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Good Hair Nets, now at, each..... **5c** | Good Pearl Buttons, per dozen..... **5c**