Rates: 75c to \$1.50 per day: \$2.50 to \$5.00 per week.

Opposite Courthouse, 2 blocks from Postoffice Fire Proof. S. P and Oregon Electric pass door

### New Houston Hotel

Sixth and Everett Sts., Portland, Ore. Four blocks from Union Depot. Two blocks from New Postoffice. Modern and fireproof. Over 100 outside rooms. Rates 75c to \$2.00. CHAS. G. HOPKINS, Manager.

WHEN IN

## SEATTLE

SEATTLE'S LARGEST HOTEL Only three blocks from Depots and Docks. Op-posite City Hall Park and Court House. THE FINEST DOLLAR ROOM IN AMERICA With detached bath, 1 person. \$1.00 \$1.50 2 persons. \$1.50 \$2.00 \$1.50 \$2.00 \$1.50 \$2.00 \$2.50 \$3.00 \$3.50 \$4.00 "When in Seattle Try the Frye"

## BEAUTIFUL RUGS

Are made from your OLD CAR-PETS. Rag Rugs woven all sizes. Mail orders receive prompt and careful attention. Send for booklet.

NORTHWEST RUG CO. E. 8th and Taylor Sts. Portland, Or.

#### DRUGS BY MAIL

We Pay the Postage.

If in need of Pure Drugs and Chemicals, Arch
Supports, Shoulder Braces, TRUSSES, Elastic
Stockings, Abdominal Supporters, Suspensory
Bandages for Men, and all other Rubber Goods
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**ELECTRIC MOTORS** Bought, Sold, Rented and Repaired WALKER ELECTRIC WORKS Burnside, cor. 10th. Portland. Ore.

## Bigger Pay for You.

Behnke-Walker Business College, Portland, Ora, largest in Northwest, trains you in all busi-ness courses. Enroll any time. Free Catalog.

Cacy, and harmlessmen, of Antityphoid Vaccination.

Be vaccinated NOW by your physician, you and your family. It is more vital than house insurance.

Ask your physician, druggist, or send for "Have you had Typhoid" telling of Typhoid Vaccine, results from na, and danger from Typhoid Carriers. THE CUTTER LABORATORY, BENKELLY, CAL.

### WANTED, TURKEYS

for THANKSGIVING and CHRISTMAS trade. Write for prices. Ship us your Veal, Hoge, Poultry, Egge, Hidee and Cascara bark. Top prices and fair treatment.

CLEASBY-HANSON CO. 115 FRONT ST.

### THE VOGEL PRODUCE CO.

Will guarantee you top market prices at all times for your Veal, Hogs, Poultry, Eggs, Butter, Hides, Etc. If you have not shipped to us, try us. PORTLAND, OR. 113 Front,



Write about your wants in this line to FINKE BROS., Portland, Ore. 183 Madison St.,



#### HIDES, PELTS, CASCARA BARK **WOOL AND MOHAIR.**

We want all you have. Write for prices and shipping tags THE H. F. NORTON Co. Pertland, Ore.; Seattle, Wn.

Veal, Pork, Beef, Poultry, Butter, Eggs and Farm Produce. to the Old Reliable Everding house with a record of 45 years of Square Dealings, and be assured of TOP MARKET PRICES. F. M. CRONKHITE

Portland, Oregon

#### We Want Your! BEANS

We Pay Cash. No Commissions HEIDENREICH CO., Portland, Ore 74 Front St.,

P. N. U.

No. 42, 1917

# HOTEL ROLAND GRAVEL ROAD WORK

Construction Is Usually Divided Into Two Entire Distinct Classes.

### SUBGRADE FOR THE SURFACE

Some of Most Important Details Requiring Careful Attention Are Frequently Overlooked - Some Precautions to Observe.

Figure 1 shows a typical cross section for a gravel-road surface and indicates the customary steps involved in the construction of such a surface. The limiting thicknesses shown on this cross section are by no means followed universally, but are believed to represent the best current practice. The minimum thickness shown is supposed to be employed where the traffic is light and the subgrade is uniformly stable, while the maximum thickness is adapted for opposite conditions. Perhaps the most usual compacted thickness of surface is eight inches at the center and six inches at the edges, The difference in thickness between the edges and center is effected by making the crown of the subgrade flatter than that of the surface.

The construction of a gravel road usually is divided into two entirely distinct classes of work. The work of grading and preparing the subgrade

exclusion of vegetable matter from fills, (3) provision for draining wetweather springs which occur in the subgrade, and (4) the matter of thoroughly loosening and distributing the

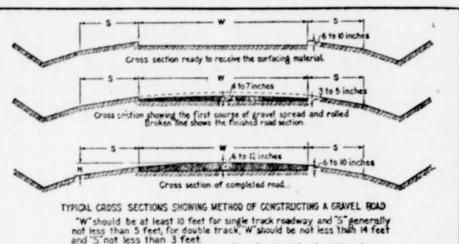
materials contained in old road crusts. After the roadbed has been graded and drained properly, and the details mentioned above have received proper attention, the work of preparing the subgrade consists simply in forming a trench, as shown in figure 1, to receive the gravel surface. The trench may be formed largely with a grading machine, but the final shaping should be effected by means of picks and shovels and rolling. It is customary to provide grade stakes at intervals of about 50 feet, to serve as a guide for the pick and shovel work, and where extreme accuracy is desired cords may be stretched between the stakes to insure that the subgrade conforms to the required grade throughout. The rolling is done ordinarily with a power roller weighing about ten tons,

In order that the subgrade may be well drained during the process of spreading and compacting the gravel it is frequently necessary to provide shoulder drains at comparatively short intervals. Such drains are constructed by opening small ditches through the shoulders and partially filling them with gravel.

#### PROPER FEED FOR CHICKENS

Dry Ground Mixture in Hoppers Should Be Kept Before Them at All Times-Give Some Milk.

Farmers should keep dry ground feed, such as a mixture of bran, shorts



"W" should be at least 10 feet for single track roadway and "S" generally not less than 5 feet, for double track, W should be not less than 14 feet and "S" not less than 3 feet.

"H" crown, varies from \$\frac{1}{2}\$ inch per foot for level grade, to 1 inch per foot for a grade of 5%.

Fig. 1

falls into one class, and that of haul- | and corn meal, in hoppers before the ing, spreading and compacting the hens at all times. Either sour milk or gravel into the other. The first class of work has been discussed at considerable length in connection with earth and sand-clay roads, but since it is desired to emphasize certain features | full crops. of subgrade preparation that are of increased importance in connection FARMER SHOULD KEEP BEES with gravel-road construction, both PORTLAND, ORE classes of work will be considered in

#### the following discussion: Preparation of the Subgrade.

In grading the roadbed and preparing the subgrade for a gravel surface, it should be borne in mind also that the more expensive a road surface, the greater should be the care exercised to prevent it from being damaged through settlement or upheaval of the subgrade, and the greater should be the accuracy with which the subgrade is constructed so that no unnecessary surfacing material may be required to correct irregularities in grade and cross section. No matter what the soil conditions may be, the subgrade for a gravel road surface, when completed, should conform closely in grade and cross section with the requirements of the plans and should present an even, uniform appearance. Also, it should be as firm and unyielding as the conditions will permit.

Some of the most important details requiring careful attention in preparing the subgrade, and which are perhaps most frequently overlooked, are (1) backfilling culvert trenches so as buttermilk should be given as a drink. Crushed limestone or oyster shell should be before the hens all the time, and the hens should go to roost with

Interesting and Profitable Pursuit-Every Farm Should Have Its Supply of Honey.

A careful study of the bee and its life and habits and a little effort to adjust one's actions to those of the bees will soon make beekeeping an interesting and profitable pursuit. Every farmer should produce his own supply of honey by keeping and properly caring for a few stands of bees.

#### TO DESTROY SHEEP SORREL

Weed Cannot Be Entirely Exterminated by Mowing, But It Can Be Weakened to Great Extent.

Sheep sorrel cannot be entirely exterminated by mowing, but it can be greatly weakened. The weed should be mown as soon as the flowering stalks have attained full size, but before they have commenced to turn red.

#### Ideal Ventilation.

The "King system" of ventilation is ideal for the piggery. Then the hog to prevent subsequent settlement, (2) house will not "smell to heaven."

#### COLLIDED WTH A BUMBLEBEE

Aviator Finds There Are Other Things Besides Airplanes That It Is Not Safe to Encounter in the Air.

Birds and airplanes are not the only flying things with which it is possible for an aviator to have a serious collision. The author of "Tales of the Flying Service" gives as an instance a strange accident that occurred in France.

Not long ago, he says, I ran across an aviator I know, looking very much annoyed and with one eye seriously obstructed by a large contused swelling on his cheekbone. Thinking that he had had a smash of some kind, probably a bad landing in which he had been pitched against the front of his machine, I asked him what had saying, "Grow your own feed." happened

He explained that about six hours earlier he was starting out on a fast biplane, and was going full speed on the ground in order to get a good jump into the air, when he met a largesized bumblebee going in a burry in the opposite direction.

"You see," he explained, "I was doing about sixty knots due east, and he was doing between thirty-five and forty knots due west, and he was a large bee, and the impact was something terrific. And," he added vindictively, "I hope he has spilled all his honey and that he's still unconscious!"-Youth's Companion.

#### Cultivating Muskmelons.

When the muskmelons come up, surface cultivation is best to remove weeds and to conserve moisture, stimulate a rapid growth and early maturity of the plants and the melons.

#### Profits From Feeding.

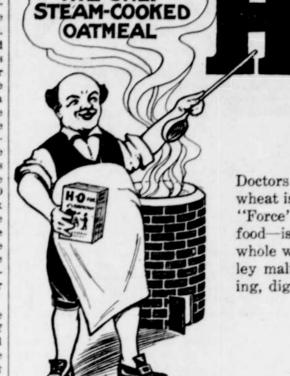
Profits from feeding are greater for the man who does not have to buy grain. That is merely another way of

Cultivating Beans. Do not cultivate beans when moisture is on the foliage.

Waste Nothing.

In these days of high prices the wise farmer will let nothing go to waste.

In these days of high prices the wise farmer will let nothing go to waste.



THE ONLY

Whole Wheat The Best Food

Doctors generally agree that whole wheat is best for the human body. "Force"—the universal, breakfast food-is a combination of selected whole wheat and the choicest barley malt-Nourishing, strengthening, digestible, delicious.

[Sunny Jim]

At Your Grocer's



A Halt to John Barleycorn.

the day when the government, on thir-

ty days' notice, would by its fiat stop

the making of whisky for an indefinite period. Yet that is precisely what

was done last month, under the provisions of the Food Control Act, while

the country looked on in amazement.

The greatest distilleries in the world -those at Peoria and Louisville-

stopped the buying of grain, save in

comparatively small quantities for the

manufacture of alcohol for commercial

and medicinal uses. These great

plants have not been equipped for

producing anything except whisky.

Experts tell us, however, that of all

the grain that was taken by distil-

leries the country over, only 40 per

cent went into whisky. This estimate

would indicate a saving of 40,000,000

bushels of grain a year for food pur-

the government will continue the col-

and its revenues from this source may

be even greater than before the manu-

facture was stopped. — From "The Progress of the World," in the Amer-

ALLEN'S FOOT-EASE DOES IT.

When your shoes pinch or your Corns and Bun-ions ache, get Allen's Foot-Ease, the antiseptic powder to be shaken into shoes and sprinkled in the foot-bath. Gives instant relief to Tired. Ach-ing, Tender Feet. Sample FREE. Address Allen S. Olmsted, LeRoy, New York.

Definite Information.

the information imparted were grudg-

ed: "London-right hand side, going

To keep clean and healthy take Dr.

ierce's Pleasant Pellets. They regu-

Her Contribution.

"He owes his success to his wife."

"Yes. Scarcely a day goes by but

she keeps him from making : fool of

himself in one way or another."-Ex-

Cause Corns But

Who Cares Now

You reckless men and women who

are pestered with corns and who have

at least once a week invited an awful

death from lockjaw or blood poison

are now told by a Cincinnati authority

to use a drug called freezone, which

the moment a few drops are applied

to any corn or callous the soreness is

relieved and soon the entire corn or

callous, root and all, lifts off with the

Freezone dries the moment it is ap-

plied, and simply shrivels the corn or

callous without inflaming or even ir-

ritating the surrounding tissue or

skin. A small bottle of freezone will

Sure! High Heels

te liver, bowels and stomach.

to him and sternly said:

were you born?"

"That so?"

fingers.

in."-Liverpool Post.

1917.

#### VAUGHAN'S PORTABLE DRAG SAW Cuts 20 Cords in 10 Hours

THE ORIGINAL THE LIGHTEST. THE STRONGEST. HAS MANY IMITATORS, BUT NO EQUALS. Write for Information.

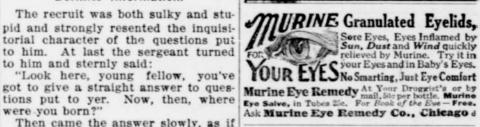
Vaughan Motor Works, 475 E. PORTLAND, OREGON.

# Ten years ago probably not one American in a million expected to see FADED OR GRAY HAIR

If Mixed with Sulphur it Darkens so Naturally Nobody can Tell.

Grandmother kept her hair beautifully darkened, glossy and attractive with a brew of Sage Tea and Sulphur. Whenever her hair took on that dull, faded or streaked appearance, this simple mixture was applied with wonderful effect. By asking at any drug store for "Wyeth's Sage and Sulphur Compound," you will get a large bot-tle of this old-time recipe, improved by the addition of other ingredients, There need be no fear of a all ready to use, for about 50 cents whisky famine, for the stock accumu-This simple mixture can be depended lated by the distillers and stored is upon to restore natural color and described as enormous. Meanwhile, beauty to the hair. lection of heavy taxes on this stock.

A well-known downtown druggist says everybody uses Wyeth's Sage and Sulphur Compound now because it darkens so naturally and evenly that nobody can tell it has been apican Review of Reviews for October, plied—it's so easy to use, too. You 1917. and draw it through your hair, taking one strand at a time. By morning the gray hair disappears; after another application or two, it is restored to its natural color and looks glossy, soft and beautiful. This preparation is a delightful toilet requisite. It is not intended for the cure, mitigation or prevention of disease.



# Ask Murine Eye Remedy Co., Chicago AVERTED

Philadelphia, Pa.-"One year ago I was very sick and I suffered with pains



in my side and back until I nearly went crazy. I went to different doctors and they all said I had female trouble and would not get any relief until I would be operated on. I had suffered for four years before this time, but I kept get-

ting worse the more medicine I took. Every month since I was a young girl I had suffered with cramps in my sides at periods and was never regular. I saw your advertisement in the newspaper and the picture of a woman who had been saved from an operation and this picture was impressed on my mind. The doctor had given me only two more days to make up my mind so I sent my husband to the drug store at once for a bottle of Lydia E. Pinkham's Vegetable Compound, and believe me, I soon noticed a change and when I had finished the third bottle I was cured and never felt better. I grant you the privilege to publish my letter and am only too glad to let other women know of my cure."-Mrs. THOS. McGON-IGAL, 3432 Hartville Street, Phila., Pa.