

## Crescent Mill

Crescent Flour is the Best.  
Patronize Home Industry.

Op. R R Depot  
Forest Grove

## Johnson & Co.

THE  
Brick Livery, Feed and Sale Stable

See our ad. in the T. P. A. Guide. Drummers' trade our specialty. Our 'Bus meets all trains. Carries U. S. mail. Baggage and freight called for and delivered.

Finest Rigs. Best Horses. Good Drivers.  
Corner Main and Pacific Ave., Forest Grove, Or.

## SAESENS & CO.

Proprietors of

### ... City Meat Market ...

We handle all kinds of meat and fresh fish.  
Front Street, Forest Grove

The Iron House is closed, but

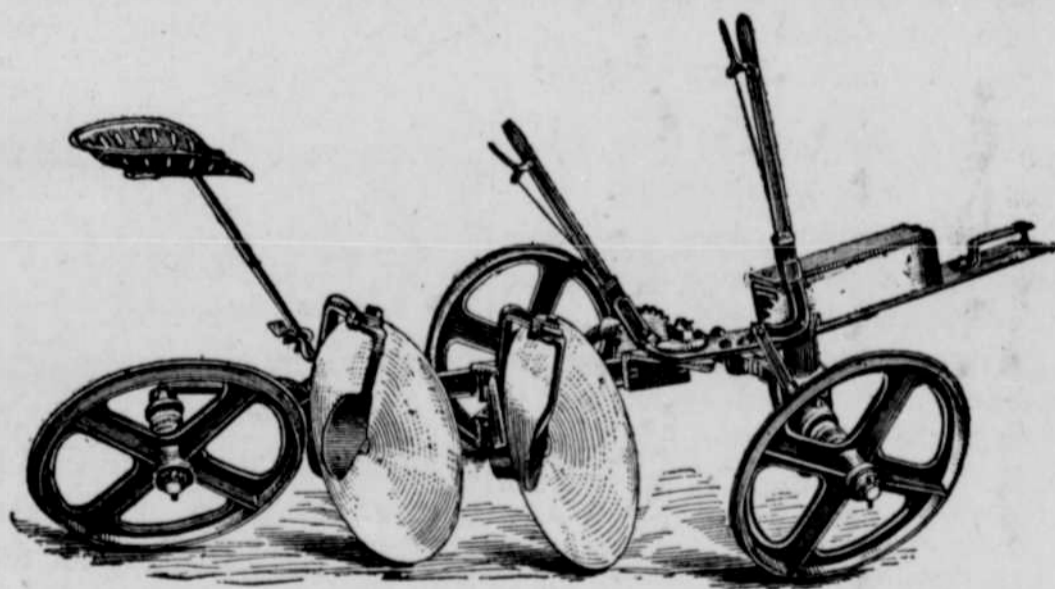
## Dr. Hines' Drug Store

Is open and has the best line of Drugs, Cigars and Stationery in town. Sole agent for the

### Montello

A ten cent cigar for five cents.

Main St., = = Forest Grove



H. J. GOFF

W. W. GOFF

## Goff Bros.,

DEALERS IN

### Hardware and Implements

John Deere Plows and Harrows, Moline Wagons, Benicia Disc Plows. Call and see our complete lines. . .

Main Street,

Shelf Goods, Stoves and Ranges

Studebaker Wagons and Buggies, Logging Goods, Guns and Ammunitions. Reasonable prices. . . . .

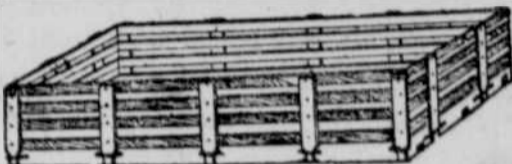
= Forest Grove, Ore.

## FARM AND GARDEN

### A WAGON BED.

Useful For Carrying Stock and In Other Farm Work.

Some of his neighbors built a wagon for carrying sheep and hogs which proved so convenient that a correspondent gives its dimensions and plan in New England Homestead: The frame for the bed is 14 feet long and 3 feet 8 inches wide. The sidepieces are of 7 by 2 inch stuff and the end pieces of



WAGON BED.

6 by 2 inch, allowing an inch difference for tongue and groove flooring. There should be four crosspieces to secure the bottom of the bed. Take an old buggy tire and have straps made with a hole in each end. Five of these should be bolted on each side and two on each end, as shown in cut. Standards which are to slip into these are made of 1½ by 2 inch stuff 40 inches long.

For slats get poplar four inches wide by three-quarters inch thick. Bolt these to the standards four inches apart. The top railing is made extra strong by putting on an extra strip which has a quarter inch groove. A tenon should be cut in the top of each upright to fit into this. The corners at the top should be fixed with ordinary strap door fastenings bent around the corner, fastened at one end and with a staple over which to slip the other. These can be held in place by small wooden wedges to fit the staple. By means of this strap fastener at the corner the sides and ends can be quickly unfastened and taken off, and the bottom can then be removed with ease. The wagon will carry twenty sheep or hogs at a load. I have also found it most useful in farm work. Taking off the sides, I have a good bed for holding fodder, tobacco and other things. Aside from your own labor it is very inexpensive.

### ALKALI LANDS.

Methods of Reclamation—Conditions in the Lower Arkansas Valley.

Several methods for the reclamation and utilization of alkali lands have been tried. Prominent among these are the removal of alkali crusts by scraping, the washing away of the surface concentrations by heavy flooding, the utilization of partly unproductive lands by special cultivation of alkali resistant crops and the application of gypsum to the lands. All of these may, under certain conditions, be of value in aiding the removal of the alkali salts and in rendering the fields capable of cultivation, but in the reclamation of lands containing considerable quantities of alkali they are all inefficient.

The application of gypsum is beneficial, particularly in the presence of black alkali or sodium carbonate. By chemical reaction the less injurious white alkali or sodium sulphate replaces the carbonate. This, however, still leaves an excess of the sulphates in the soil. Where there is practically no black alkali in the soil, this means of improving the condition of the alkali lands does not apply. Where there is also an abundance of gypsum in the soils it is unlikely that the black alkali will ever give any trouble.

The only method for the reclamation of alkali lands which effects a permanent restoration is thorough drainage. Its absolute success in lowering the

water table, destroying the capillary connection between the underground water and the surface and in removing in solution large quantities of alkali salts, has already been demonstrated not only by artificial drainage systems, but in nature as well. The question of the cost of a system of artificial drainage is, however, the determining factor in its utility for the purpose.

In the lower Arkansas valley there are many small tributary valleys or draws extending into plains and traversing in many cases the alkali lands. It frequently happens that these local drainage channels are not continuous, though with but slight expense they could be made so by cutting open drainage ditches along their axes. The construction of such ditches would in itself remove a large quantity of seepage water and greatly improve the condition of neighboring lands. For the complete reclamation of the lands, however, a system of lateral drains having their outlet into the main drainage channel could be constructed.

Open lateral drains are somewhat less expensive than tile drains, considering first cost, but the former not only interfere with cultivation, but in the lower Arkansas valley require frequent cleaning and constant attention, as they fill up rapidly with tumbleweeds, which are blown about in great numbers by the winds and so are more expensive in the end.—M. H. Lapham.

### Getting Greatest Value From Crops.

Various farm products will represent a cash value greater than current market price for the same if fed to live stock and marketed in the form of meat. This assertion is based by the Montana experiment station on the fact that during the winter of 1899 and 1900, while clover was being sold in the stack at \$5 per ton, \$7.93 was secured by the station by feeding clover to sheep. It required 11.8 pounds of clover to maintain a lamb and produce a pound of grain. One ton of clover produced 169.5 pounds of mutton, which at \$4.68 per hundredweight gave the above result.

### The Fall.

She passed along the street  
Amid the hurry and whirl,  
Small, exquisite and sweet,  
A little slip of a girl.

### A smooth banana peel

Right in her way did curl,  
And it caused, when it touched her heel,  
A little slip of a girl.

—New Orleans Times-Democrat

### Daily Guide.

When a man asks you how old you think he is, guess at least fifteen years younger than you are absolutely positive he can't help being, and you have gained a friend for life.—Baltimore American.

### Optical.

There were two men in our town,  
And one was very wise;  
He looked for gold till he was old,  
And he wore out both his eyes.

The other was a foolish man;  
For gold he did not hunger.  
He looked for good, as all men should,  
And his eyes kept getting younger.  
—Newark Evening News.

### The Extreme of Elegance.

"Quite an elegant wedding, wasn't it?"

"Elegant! I'll bet it will take her father a year or more to square up for it."—Cleveland Plain Dealer.

### Wanted.

That poets often need food and clothes  
Is something everybody knows,  
But what they need all else above  
Is a few more words that rhyme with  
"love."  
—Philadelphia Bulletin.

### Its Peculiarity.

"There's one queer thing about money—"

"Identify this one."

"Why, whenever you chip in you have to shell out."—Judge.