

More Bargains Every
Day
At
The New Store
Worth & Gray
DEPARTMENT STORE
Successors to W. W. Moore

177 N. Liberty St. Salem, Or.

Pep and Progress Pages

Dedicated to Stimulating Our Present Industries
And to the Establishment of New Ones

The Way to Build Up Your Home Town
Is to Patronize Your Home People

The Surest Way to Get More and Larger Industries
Is to Support Those You Have



VICK BROS.
Trade and High

Eat a plate a day

WEATHERLY ICE CREAM

Sold everywhere

BUTTERCUP ICE CREAM CO.

P. M. Gregory, Mgr.
240 South Commercial Street

Salem

This campaign of publicity for community upbuilding has been made possible by the advertisements placed on this page by our public-spirited business men--men whose untiring efforts have builded our present recognized prosperity and who are ever striving for greater and yet greater progress as the years go by.

Why Suffer With Stomach Trouble when Chiropractic Will Remove the Cause

Your Health Begins When You
Phone 87
for an appointment

DR. O. L. SCOTT

P. S. C. Chiropractor
Ray Laboratory 414 to 419 U. S. Nat'l Bk. Bldg.
Hours 10 to 12 a. m. and 2 to 6 p. m.



DRY GOODS
NOTIONS
WOMEN'S
READY-TO-WEAR
FURS
CORSETS

Refinery Bros

466 State St. Phone 877

**Eyes Tested
Glasses Fitted**
Lenses accurately duplicated. Optical repairs carefully and promptly made

Hartman Bros.
Jewelers and Opticians
Salem, Oregon

Save Your Clothes
Save Work and Worry
by having your laundry work done by the
Salem Laundry Company
136 Liberty St. Phone 25

OWPCO.
Broom Handles, Mop Handles, Paper Plugs, Tent Toggles, all kinds of Hardwood Handles Manufactured by the
Oregon Wood Products Co.
West Salem

Capital City Laundry
Quality and Service
Phone 165

Monuments and Tombstones
Made In Salem
This is the only monument works in Salem
Big Stock on Display
Capital Monumental Works
2210 S. Com'l Opposite Cemetery Phone 682

Made In Salem
by experienced Swiss Cheese maker
Swiss Cheese
Cream Brick Cheese
Limberger Cheese
Order from the factory or from your grocer
Salem Cheese Factory
Phone 31F11
On paved reform school road, southeast of Salem

TWO MILLION ACRES IN THE WILLAMETTE VALLEY OUGHT TO HAVE TILE DRAINAGE IN ORDER TO MAKE THE LAND MORE PRODUCTIVE BY 25 TO 50 PER CENT

Salem Has the Largest Tile Factory in Oregon, Devoted to the Humanitarian and Progressive Idea of Doing Its Share Towards This Most Desirable End—This Big Factory Makes About Fifty Different Kinds of Products, All of Most Modern Type, and It Is a Big Factor in the Solidity and Growth of Salem.

Drain or Drown!
The late Governor James Withycombe, for years a national authority on farm questions, said this of drainage in Oregon:
"Next to good roads, farm drainage is the greatest economic problem confronting agriculture

in western Oregon. There are at least 2,000,000 acres of land in the Willamette valley that would be greatly benefited by tile drainage. This land, if judiciously tiled and properly cropped, would easily give a return in value of increased crops of 25 to 50 per cent upon the investment annually."

Grain crops are no more amphibious than a man or a chicken. A little water is a good thing—but a man can drown in three minutes, and a plant may do almost as badly in only a little longer time. Man has to keep his head out of even the most splendid water, the most sparkling stream or blue lake or placid sea, or he's a drowned duck in just about three foolish breaths.

Largest in Oregon.
The Salem Tile & Mercantile company has established and is

operating the largest drain tile factory in Oregon, for the express purpose of meeting this demand for tile for draining this 2,000,000 acres of land that today is loafing, or gasping for breath, or working frantically but fruitlessly to make a living for its owners. An appalling acreage of this land doesn't pay the expenses of operation. The tile company is ready to show the way out of this agricultural catastrophe.

Drowned Crops.
A rainfall of 1 of an inch means a precipitation of 2715 gallons of water on a single acre. With the annual precipitation of 40 inches, the rainfall on a single acre of the Willamette valley is more than a million gallons—quite a lot of water! There's enough of it to soak every inch of Oregon soil into a quagmire. Worse than that, much of this water from the higher lands, flows over onto the flat lands below it, and stays there until the air and the indifferent natural drainage take it partly away.

What happens to the crops on the submerged lands? Well, what happens to the man or the chicken or the horse or even the frog if he's kept under water too long?

He drowns! That's what happens to the crops—they drown. Even though the water doesn't stand all the year on the top of the ground, it's down in the soil. It has plastered the quagmire clay around the roots and choked them, like the strangling fingers of the water around the swimmer's throat. Plants must have oxygen; not the way it comes to the fish, but free oxygen from the air. The water and the clay hold in solution make an impervious seal for the roots, that must have air and warmth or die. Try with your house plants in a flower pot having no outlet at the bottom, and keep the pot practically filled

to saturation for a few days—and watch them die!

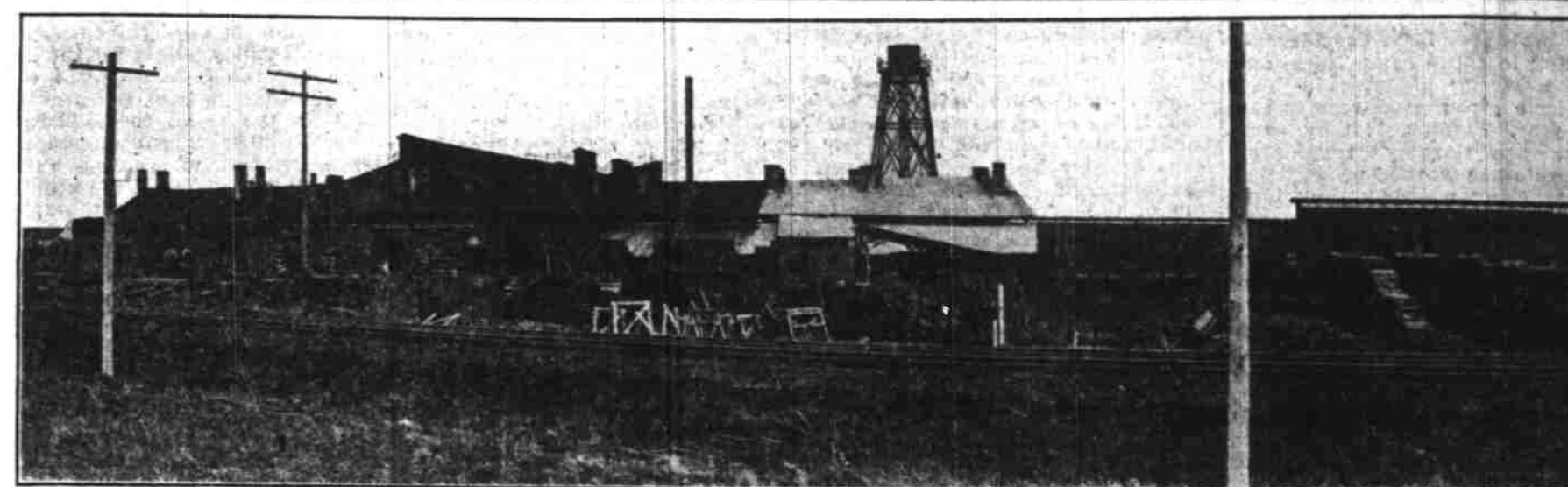
Let in the Air.
This surplus water can be removed by tile draining, that saturates the soil and lets the life-giving oxygen down to the roots; that removes the stagnant, sour, chemical - leaching water; that makes an opening for the sun to get down into the depths, and warm up the soil to the growing point.

Idaho's Experience.
Back in Idaho, on the Minidoka government reclamation project of 150,000 acres and the Twin Falls Carey act reclamation project of 240,000 acres, and on many other small irrigation projects, they found precisely what has happened to Oregon, that they were getting too much water. They had thought that the more water they can get on the desert, the better it will be.

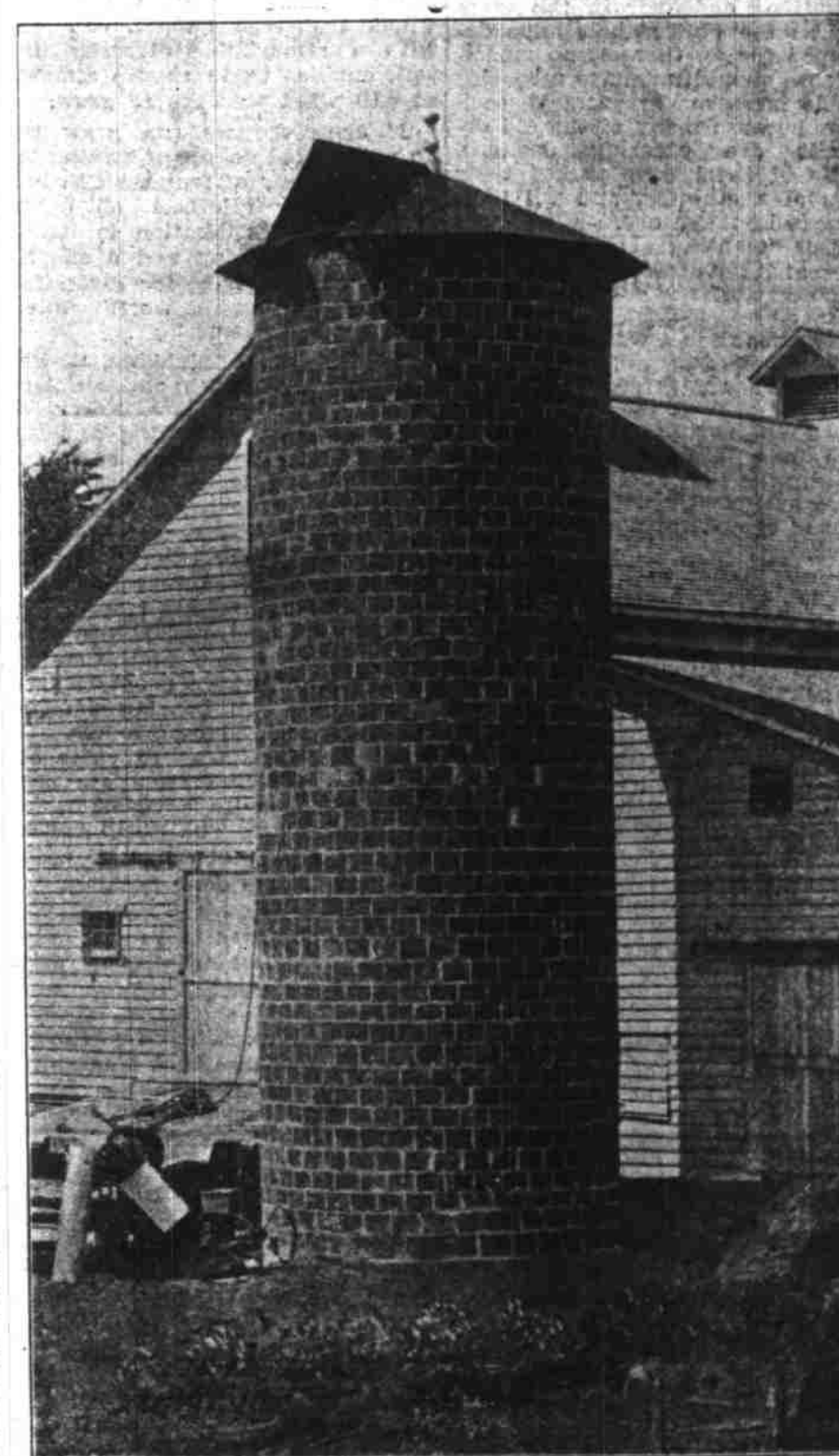
They built canals big enough to float a battleship. They really drowned their crops by pouring on water until they actually drowned the land and its crops. They were using even more water a year than the annual precipitation of the Oregon coast; besides the annual normal precipitation of about 12 inches.

Now, they are putting in drainage systems almost as big and as expensive as the original water systems; they have to, for their lands are becoming precisely like these undrained in the Willamette valley—sour, waterlogged, infertile. It's all there, every element to make them marvelously productive; but they've temporarily killed them as one would ruin crops by blanketing them from the light.

Fifty Varieties
The Salem Tile & Mercantile



View of Plant, Salem Tile & Mercantile Co., Salem, Ore.



Hollow Tile Silos are Everlasting

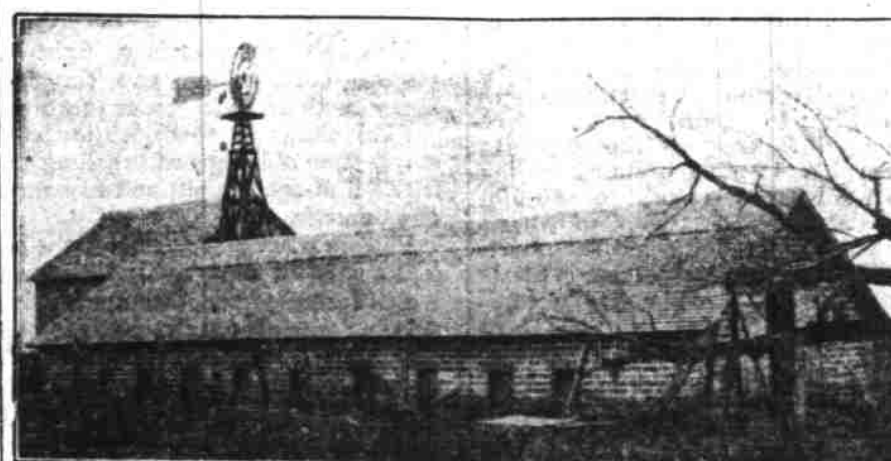
piled up under the sheds, to be ready for winter work.

From the mill, where the clay is carefully mixed to the proper consistency, the flow is continuous through the huge press that pours out the drain tile, or brick, or cellular tubing tile of one or even a dozen air cells, onto an

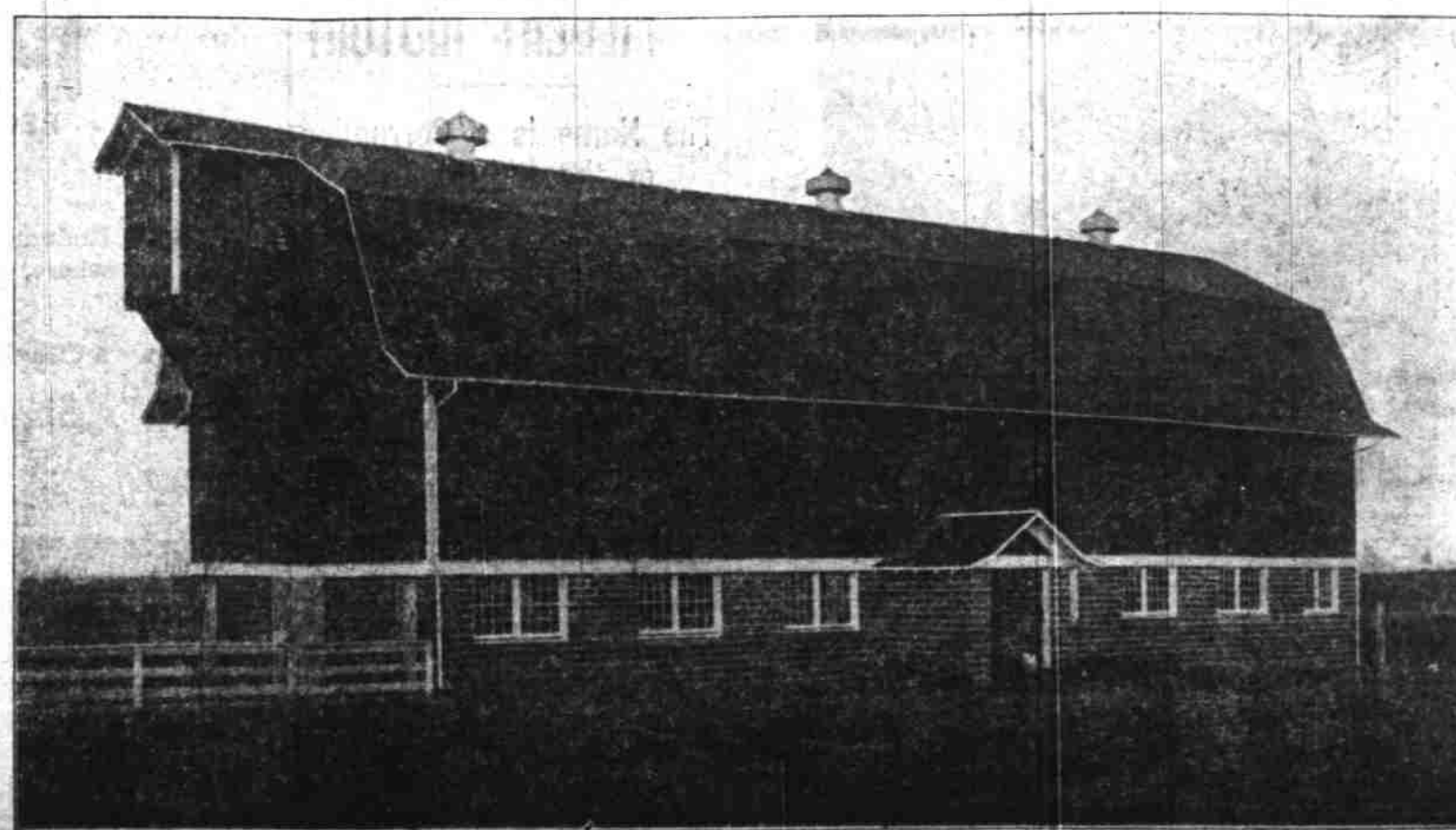
endless belt carrier that delivers it to the off-beaters who take it to where it is to be cured before going to the kilns. The material is all wire cut; a piano steel wire carried on parallel pairs of revolving wheels that are compensated by guides so as to give a straight cut, cuts the clay without deforming even the soft drain tubing.

The tiling, of whatever kind, goes from the machine to the curing room, to be set up on end so that it can cure and settle without deforming. This great room is heated by the exhaust and surplus heat from the burning kilns; the tile are dried without being subjected to either bleaching sun heat, or damaging frost or moisture.

After this drying, which hardens the clay so that it can be carefully piled without danger, the tile are wheeled to the kiln. There they are stood on end, tier on tier, until they reach a height of about 12 feet in the kiln. When the kiln is filled, the doorway is sealed up, and the heat turned on. The first three days, by firing from five fireplaces on either side—ten in all—it is given a "water heat," a mild degree of heat aimed to drive out all the moisture. Then the fires are increased, until a temperature of 1750 degrees Fahrenheit is reached and maintained for several days. The heat is regulated by a pyrometer that measures the temperature of the inside of the kiln, and is checked by an occasional opening of the top of the kiln, enough to insert a measuring rod to touch the top



Hollow Tile Hog Houses are Sanitary



Tile Dairy Barns are like Money in the Bank

Patronize your home sawmill of over 200 employees by buying your winter's wood from us

5 LOADS 16 inch MILL WOOD.....\$16.25
Box Wood, per load.....\$3.00

SPAULDING LOGGING CO.

Salem, Oregon

We Are Out After Two Millions
We are now paying over three quarters of a million dollars a year to the dairymen of this section for milk.

"Marion Butter"
is the Best Butter

More cows and better cows is the crying need!

MARION CREAMERY & PRODUCE CO.
Salem, Ore. Phone 2485

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MISTLAND BAKERY
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SALEM BAKING CO.