

This Week's Slogan:

The Capital City Is a Great Potential Paper Making Center

The Salem Paper Mill Has a Capacity of Over 220,000 Pounds Day; Steady Growth

The Output Has Gone Up From 170,000 Pounds in 1927, and There Has Been Constant Improvement From the Very Beginning

SULPHITE MILL IS FACTORY IN ITSELF

One in Salem is Thoroughly Up to Date in All Its Processes

Each paper mill such as the one in Salem is in reality two mills, the sulphite plant and the paper making plant proper. There are many sulphite mills that do not manufacture paper, but produce only the raw products for mills that do. And many paper mills have no sulphite plants. The two are one in Salem.

Here the cord wood or the log goes into the plant at the riverbank end and comes out finished paper at the shipping room, ready and routed for the world markets.

The Salem plant has now five tall digesters which take the wood converted into chips and makes the "cook," separating the lignin and other foreign matters from the cellulose, from which the sulphite papers are made—the finest product of the paper making art.

The cellulose being cleaned and screened, it goes to the bleachers. The one here is a high density bleaching plant. There are several kinds. This is the best. Part of the bleached product is pumped direct to the beaters or refiners, the rest going to wet machines to make into lap for storing.

A Strange Spectacle
When the cellulose goes into the paper making machines it looks like water—and it is 99.7 water; all water, but three-tenths of one per cent. It is a marvel to see what appears to be a stream of water coming out at the ends of the big machines finished paper, wound into big rolls, to be cut up or rewound and flattened out into sheets as the market demands.

The wood being used by the Salem mill is now about 65 per cent hemlock, with less than 35 per cent white fir, and a little spruce. These woods produce about 50 per cent cellulose, or the raw material of paper, the rest lignin and waste.

The managers of the Salem mill know how to get the pitch out of the woods carrying pitch, and how to use a number of other woods found here to advantage; but in the present hemlock, white fir and spruce are the best for their uses.

There is cellulose in every plant that has fiber and will stand up. It is contained in corn stalks and all grain stalks, so the world will never be without paper; but manufacturers will use what is cheapest and most available wherever they are located.

There are four principal kinds of paper now. Only about 100 years ago there was only one; made from linen rags. Next came wood pulp paper, ground wood pulp paper, for newspapers, books, etc. Then sulphite paper, the finest of all, like that made in Salem. Then the soda wood process, similar but different. Then the sulphate of kraft papers, using saw mill waste; making the coarser paper, like that used in brown envelopes.

There is a fifth rather distinct kind, a semi-chemical pulp, only partially "cooked," and then treated in a rod mill. It is used in cartons. It utilizes more of the lignin than other processes; saving what has heretofore been partially or largely waste.

Some day, all the present processes will be used in Salem, and all the new ones, either wholly new or combinations of the present processes—for Salem is center of great present or possible raw supplies, and in other ways especially well situated in this respect is bound to become a paper manufacturing center. Wall board and box paper will be made here, from flax hives and other materials, and as doubt's paper strings, to say nothing of the by-products of hemp and other crops that are certain to be commercially grown in this valley.

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A Paper Making Center

WHEN Major F. W. Leadbetter projected the Salem paper mill and deposited the first \$50,000 to the credit of the Oregon Pulp and Paper company, to begin the construction program, he made the statement that Salem was the center of the largest possible wood pulp supply in this country—

And the unsophisticated thought he was "talking through his hat." He certainly was not. The local mill is turning out now 220,000 pounds of high grade papers a day, and it has touched only the fringe of the pulp wood supply. The inexhaustible forest reserve pulp wood supply—inexhaustible because of the "harvesting" rules that will allow the supply to perpetually renew itself—is as yet untouched.

Salem is bound to have more paper mills, and more kinds of paper mills. The world will always need paper, and paper is made largely from cellulose, and cellulose is found in every vegetable growth that has fiber and will stand up, from the forest giant to the garden weed.

Paper will be made in Salem from straw and corn stalks; from flax and hemp shives, and there is no telling how many other materials; paper and paper board of many kinds. We will have rayon papers. We will dress the dandy and clothe the society queen with imitation satins and silks made from wood and other cellulose bearing growths. We will in this manner furnish the materials for dwellings.

There is already a paper cult in Salem. It is capable of great developments. We are "on our way" to becoming a paper making center. But we are only a step in that direction, compared with the vistas that open up to the vision of the resourceful generations that are beginning to come onto the scene of action here.

PAPER MAKING IS HOURLY MIRACLE

An hourly series of miracles is being performed at the Salem paper mill, in converting logs from the forest into finished products. Down by the Willamette's bank the bark is removed by machinery, the great growths reduced to chips, and these are dropped into the digester; and when it is filled sulphurous acid is run in, a cover clamped on, and the mass is raised to 260 degrees or more temperature and a steam pressure of 70 pounds maintained for 10 to 20 hours—this is the "cook." It is released from the digester under pressure, and thus the cellulose taken from the lignin. The cellulose makes the paper; the lignin is waste, excepting for by-products such as maxing for making coarser papers.

Then the cellulose is bleached, then refined by "beaters," ready for the paper machines. Every operation is a miracle. The paper machine takes the cellulose in a liquid state and it flows onto an endless wire mesh cloth to which a shake is imparted, so that it is evenly distributed, and the water gradually removed. The cellulose sheet is transferred from the wire to the felts and is carried between the rolls of metal or hard rubber, and from these press rolls it goes on to the dryers. These are large hollow iron cylinders around which the paper travels in contact with the face of the dryers. Heat is applied to the dryers—and the paper comes out a finisher product, excepting for calendering to give it a firm texture and finish.

Just Like That
That sounds easy. It is not. It is a part of the series of miracles. The Salem mill has one big paper machine that makes a 126 inch roll, and one making a 117 inch roll, and a third turns out a 100 inch roll. In the finishing room there are eight cutters (one new one), and there are five trimmers and four rewinders. There are 23 beaters.

MAN HUNT FAILS
SAN FRANCISCO, Sept. 27 (AP)—An intensive man-hunt for "little Jake" Fleagle, known leader of the "Fleagle gang" of hold-up men and desperadoes and himself reputed "a killer" by police and two other bandits who yesterday robbed the Rodeo bank of \$35,000 and killed a constable proved fruitless today though their battered, bloodstained car was found.

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PEOPLE WHO KEEP PAPER MILL GOING
The Oregon Pulp and Paper company, owning the Salem paper mill, have a large list of local holders of its common and preferred stock.
Joe Kaster is general superintendent and E. A. Weber is sulphite superintendent. The resident manager is K. W. Heinlein.
The traffic managers are P. Spencer and Frank Kane. I. Vinson and W. Schumacher are in charge of the wood department, and R. Olson has charge of the order department.
Mrs. I. Knox is at the head of the billing department, and Mrs. B. Zobel is chief in stenographic work. Al A. Hamilton is at the head of the auditing department.
F. W. Leadbetter is president, A. S. Fleming secretary and treasurer, and the following are directors: Dr. B. L. Steeves, Dr. M. C. Findley, William S. Walton, Walter E. Keyes, Pitcock Leadbetter, A. Cronin Jr., Truman Collins, and H. G. Reed.

Western Paper Converting Company Has Grown in Past Year Very Much in Output

The Plant Turns Out a Third More in Volume, and Its Finishing Capacity Has Made a Hundred Per Cent Gain

It is one thing to turn out high grade papers. That is what the Salem paper mill does, in increasing volume. It is another thing to take such manufactures, the finished product of the primary plant, and convert them into a large line of articles of utility and convenience for markets that need them in these finished forms, and to largely add to the

volume of this class of products. That is what the Western Paper Converting company is doing. The plant of the converting company is at Front and D streets, Salem, in a substantial building 100 by 240 feet, with a twin building of the same size planned for the not distant future; with a present working force of 60 to 100, and prospects for doubling the number before very long.

Growing All The Time
This is the only plant west of the Mississippi making bonbon, bakery and all kinds of crimp cups. There is another exclusive line, the making of foil wrappers for ice cream and candy, and another in cellophane containers. Glassine bags are turned out in various styles. The finishing capacity of the plant in the making of bags large and small has been doubled in the past year. The capacity of the whole plant has grown at least a third in that time. Food wrappers of all kinds are made. Adding machine and cash register rolls are turned out in great quantities. Many packing plants get all their printed meat wrappers from Salem.

One of the marvels is the making of book or ledger paper here, and all the handsome papers you see in high class confectionery shops. In fact, the cellulose produced here is good enough to make rayon, or artificial silk. Some day, you may get a wood dress or suit of clothes from Salem, and be fitted out fit for a queen or a prince.

All the paper mill buildings are well constructed; modern, handsome, and large—with about 300 feet frontage on South Commercial street, corner of Trade, and extending back, over 1000 feet, to the Willamette river; some of them being four stories high and over, and the towers running up to 100 feet high.

There are three super calendar stacks for finishing glassines and one book stack for finishing high grade book paper.

There are machines that rule both sides of the paper, both ways. Many thousands of school children along the coast are using this paper in penmanship exercises and for examination papers, etc.
Getting Larger Markets
New branch sales offices are being opened in Dallas, Texas, and Denver, Colorado. Sales are being extended to the middle west, and in the Philippines and the Central American countries. There is constant growth, and what may be termed "unlimited room."
Warren Gilbert, nationally known cartoonist, is in charge of the art department. That end of the plant, in which the photo engraving is also done, is a most interesting place, and in fact every part of the work is interesting, with the operation of machines that seem to do about everything but think.

The president of the Western Paper Converting company is C. F. Beyer; vice president, Lloyd Riches; secretary, Joseph Prudhomme; treasurer, Thos. A. Roberts.
The main sales office of the company is in San Francisco, in charge of Lloyd Riches.
The doubling of the size of the plant and of the forces employed will not set any limit to the expansion that will eventually take place. There will be progressive doublings.
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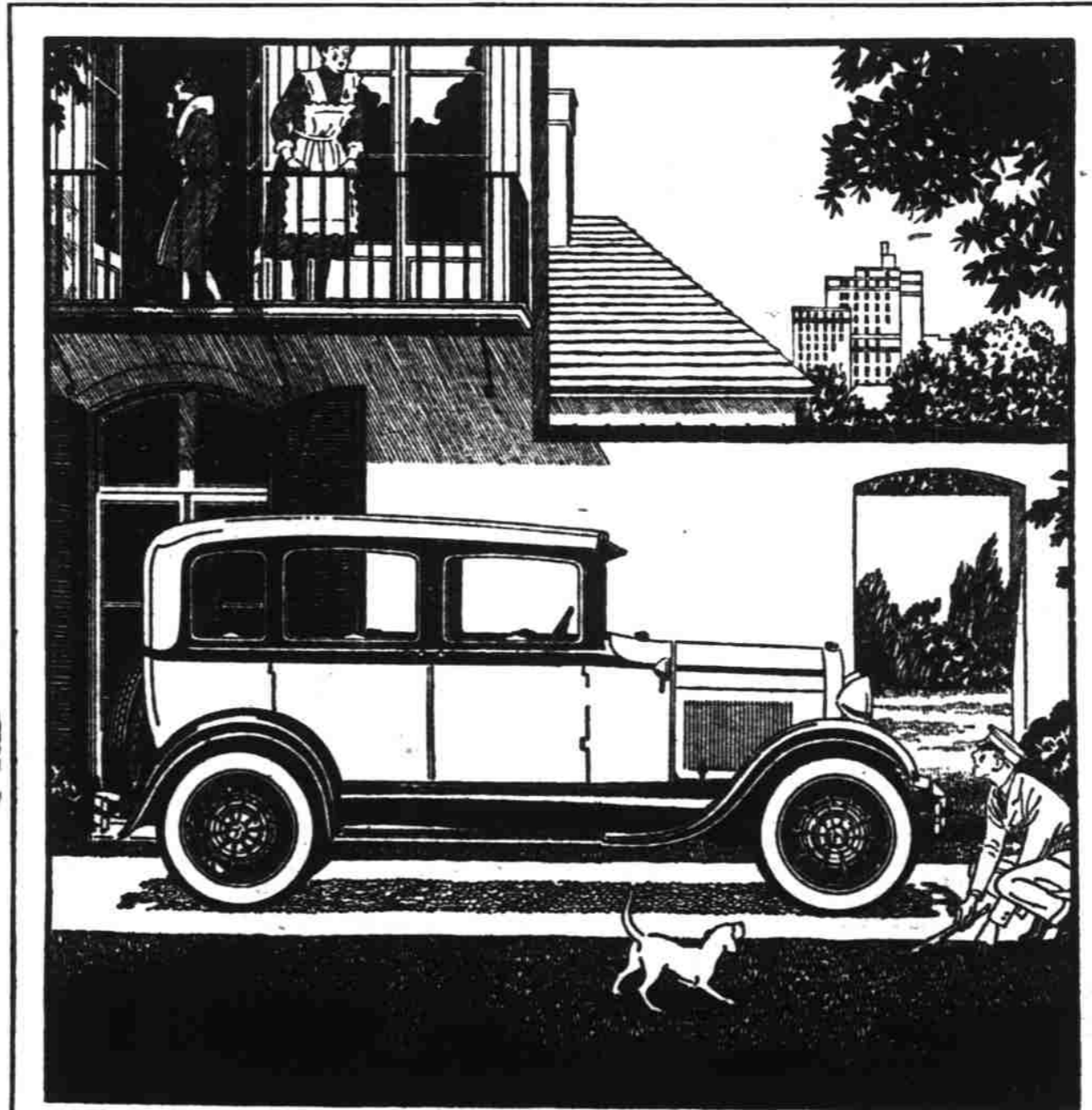
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