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plant is approximately 3000 cords, or 1,714,000 board feet per month. About twenty-five men are employed in this department.  
**Acid Plant**  
The sulphurous acid plant is of the tower type. Three wooden towers 75 feet high by seven feet in diameter are used for making sulphurous acid. One 48 inch by 10 foot rotary sulphur burner with a capacity of 15,000 pounds of sulphur every 24 hours is used for oxidizing the sulphur. Lime rocks are placed in the above described towers and water is admitted at the top. The sulphur dioxide is blown into the towers by means of a fan blower; thus this absorption process continues for 24 hours each day for six days. The daily capacity of the acid plant is 150,000 gallons. The finished acid is pumped by means of a centrifugal pump to the acid storage tanks; these are three large wooden tanks with a capacity of 50,000 gallons each. From 375,000 to 400,000 pounds of sulphur are consumed each month. From 550,000 to 600,000 pounds of lime rock are used.  
Three experienced men are engaged in this department.  
**Digesters**  
Four 15x49 foot vertical digesters, 6025 cubic feet capacity are used; 6000 cubic feet of chips

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### SALEM'S PAPER MILL PRODUCES THE HIGHEST

(Continued from page 3)  
ment used in preparing the wood is as follows: One electric log hoist, two 84 inch cut-off saws; two vertical type steam splitters; four hand barkers; one 88 inch chipper; two rotary chip screens. The wood room also has cutting and stacking capacity for 60 cords of wood in eight hours. This wood is used as a reserve. The monthly wood consumption of this

are put into those digesters with approximately 25,000 gallons of acid, then allowed to cook for 10 to 11 hours under a steam pressure. When the cooking is completed the whole contents is blown off into large perforated bottom blow pits and there the waste liquors are washed away, leaving nothing but the pure cellulose. This washing process requires about four hours.  
Six experienced men are employed in this department.  
**Screen Room**  
From the blow pits the stock is pumped up to a rotary knitter. This machine will remove all knots, which will not cook in the cooking process, and also will remove any chips which have not been cooked, and they are conveyed to screening bins. These can be used for the manufacture of car lining or heavy mill wrappers. The good cellulose then flows over fine slotted screens and into a flow box to be carried to the deckers or wet machines. The former is a cylinder mould machine which will thicken the cellulose to a consistency of about 15 to 20 per cent; that is, remove the water to that extent. This stock can be conveyed to the beaters in the paper mill by means of a plunger pump. The wet machines are of a cylinder mould type but have press rolls and felts so as to enable the making of laps which are about 40 per cent stock and 60 per cent water. These laps are folded off of the wet machines and conveyed to the paper mill by a belt conveyor.  
Twelve men are employed in this department.  
**The Bleaching Plant**  
The bleaching plant is new; was installed last year. There are only a few such plants in the world; the process was recently invented by a man in Finland. The one here has 35 to 40 tons capacity. It consists of three vertical tanks or cells with a copper tube in the center of each one, extending from the bottom to within 12 inches of the top. In each of which runs an impeller conveying the stock from the bottom of the cell to the top of the copper tube, giving complete circulation—the stock returning from the top to the bottom, making a continuous system.  
Two wet machines remove the water from the top, reducing the pulp to about 15 per cent consistency; 15 per cent of pulp to 85 per cent of water. The pulp from the wet machines is conveyed to the bleach cells. Chlorine bleach liquor solution is added to the pulp as it enters the first cell. This is known as the Semco system, standing for the manufacturer, the Stebbins Engineer-

ing and Manufacturing company, Watertown, New York. The new system has cut down the time of bleaching about half; to three to five hours; thus making for economy, to say nothing of efficiency.  
There was last year installed at the Salem mill another wet machine to take care of increased production. There was recently installed a new bleach mixing plant. In every part of the sulphite plant either major or minor improvements are being constantly made.  
**Filter System**  
A battery of 12 California filter tanks is used to filter the water; having a capacity of 7,000 gallons a minute, or 16,800,000 gallons of water every 24 hours. These filters furnish the water for both the sulphite and paper mills.  
**The Power**  
There are 170 electric motors now in the Salem paper mill. These motors are capable of taking and delivering 5400 horse power at one time. They do take and deliver on an average about 3600 horse power for each hour of the day and night.  
The steam power used is about 1200 horse power. The Dutch oven type of boilers is used.  
F. M. Peyton is in charge of the electrical and steam power. He has been with the Salem paper mill ever since it started running.  
**The Main Mill**  
There are three paper making machines, as follows:  
No. 1 is a 136 inch Fourdrinier machine; capacity, 38 tons in 24 hours.  
No. 2 is a 110 inch cylinder machine; capacity, 13 tons in 24 hours.  
No. 3 is a 116 inch Fourdrinier, capacity 15 tons in 24 hours.  
Total capacity, 65 tons in 24 hours.  
There are 12 of the 2000 pound beaters; two added last year.  
There are 12 of the 4000 pound stock chests; two new last year. The total number of men employed is about 300; with 50 to 75 indirectly employed in cutting and hauling woods, etc.  
The paper manufactured is high grade wrapping, including grease proof; glassine in natural, bleached and colored; drug bonds colored and bleached; manillas in butchers' fiber; adding machine paper, etc., and paper for explosives, cartridges, etc., bond papers, alkali proof soap wrappers, etc., etc.  
**Payroll Over \$40,000 a Month**  
The common labor payroll is now over \$35,000 a month; total payroll, over \$40,000 a month. The payroll is constantly growing, and will continue indefinitely; also, the monthly payments for

wood and other materials.  
**A Lot of Water**  
The whole city of Salem, outside of the paper mill, used 3,659,000 gallons of water a day in July of this year. The consumption was 2,896,000, gallons a day for the year 1924. These are the figures for the Salem water system.  
The Salem paper mill uses about 10,000,000 gallons of water a day of 24 hours; average something like three times as much water as the whole city of Salem. The substance that goes into the paper making machines at one end is 99 7-10 water—and it comes out at the other end of the machines finished paper.  
**And a Lot of Juice**  
The Salem paper mill takes about a third of the "peak load" of electricity used in all Salem. That is, in the busy eight hours of the day, about a third of the electrical energy distributed in Salem is taken by the paper mill. But the paper mill goes right on taking the same amount of electricity after Salem goes to bed, and in the early morning hours, when little power and light energy is used outside of the paper mill.  
So, the Salem paper mill uses in the 24 hour day almost as much electricity as all the rest of Salem. As stated elsewhere, it has 170 electric motors.  
**Means Much to Salem**  
The Salem paper mill means a great deal in the life and growth and prosperity of Salem. The money paid for wood means a lot to the farmers with their wood lots, and the timber men. The 400 employees, directly and indirectly working for the institution, counting five to the family, means that 2000 people in Salem and around this city depend directly for a living upon its activities. What is more, there is constant growth; there has been growth every day; there is growth now, and there will be growth for the indefinite future. This means more and more men, more and more families. More and more dwellings and indirect business in a thousand ways. It is new money, coming from long distances, for the increasing lines and volume of products for the markets of the whole country, and of outside countries.  
**History of the Mill**  
The Salem paper mill has been

in operation five years. The first car of paper for the market was shipped from this plant October 1, 1920. On that date The Statesman was printed from paper made at this mill—from a trial run of wood pulp secured from one of the sulphite process. News print is from a different process for the preparation of the wood; the wood pulp being ground with grinders.  
Three eight-hour shifts a day are employed in the Salem mill; 24 hours a day, six days in the week. All the available machinery is kept in full operation, and there is constant increase in the average high grade and the output, through the installation of new machinery and appliances and the more efficient working of all departments.  
The plant of the Oregon Pulp & Paper company, owning and operating the Salem paper mill, is without question one of the most modern and best equipped of its kind in the country.  
Its main paper machines are the very last word in paper making equipment, and, in the words of the builders, the foremost paper machinery house in the world, written in connection with the first machine. "It is so far ahead of anything built up to the present time, that other manufacturers could afford to scrap their present machines costing into hundreds of thousands of dollars and put in machines of this kind and effect a saving on their total investment."  
The reason for this fact is that the "clothing" cost, and power consumption, are reduced so materially that the cost of operation is enough lower to pay a handsome dividend on the increased investment.  
The machine clothing consists of several endless woolen felt blankets which cost into the hundreds of dollars each. The dryer felt being made of a woolen blanket one-half inch thick, and endless bronze wire mesh cloth. This wire is 31 feet wide and from 30 to 75 feet long, and in these days of high prices the cost is very heavy.  
The machine is so built that all rolls and bearings that are moved by these felts of wire are housed by the finest of imported ball bearings and the pull or friction on the clothing is reduced so that their life is nearly doubled. Often a felt subjected to hard service lasts but a few days, and wires sometimes last only a week or two. Added to the cost of the clothing is the loss of production while the clothing is being changed.  
**Has Little Competition**  
This mill has little competition in several of the classes of paper

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it manufactures, as all paper of these kinds is shipped from the eastern or lake states.  
The class of products turned out are known as specialties, and this term covers a wide range.  
Among other papers made are glassines and waxing tissues.  
The former is an expensive paper. It is made by a special process of mechanically treating the pulp and the present time the supply is entirely inadequate to fill the demand, as there are very few mills equipped to handle this class of paper.  
The demand for this paper is growing very fast, as it is used in ever-increasing amounts for wrapping goods of all kinds which it is desired to show through the wrappings. It is transparent to a high degree and helps to make a handsome looking package.  
Other classes of paper made are "grease proof," which is used for wrapping food articles, such as butter, and hams and bacon; waxing tissue, treated with a wax

The industrial center of the United States is rapidly gravitating to Oregon because of the marvelously favorable conditions and prodigality of resources. World markets are opening before us like the first pink of an opening rosebud. Every dollar spent for "OREGON QUALITY" products stimulates it into full and refulgent bloom.

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Distributed Free While It Lasts, Except for Expenses of Packing  
To put surplus war explosives directly into the hands of the Oregon farmer is the purpose of the distribution of pyrotol by the federal department of agriculture through the Oregon Agricultural college extension service. No resale is allowed, and any one person is limited to between 50 and 1000 pounds.  
Pyrotol is safe, may be burned without exploding, and has no toxic effects. It is made chiefly of ground smokeless powder and sodium nitrate, put in 6-ounce cartridges of paraffine, each equal to the usual 8-ounce dynamite stick. The 50-pound box contains about 160 sticks.  
The Oregon price for pyrotol is \$6.00 per 100 pounds—only cost of carting, packing, shipping, and distribution. No charge at all is made for the material, which was set aside by congress for the farmer's use. Freight charges are added to the \$6.00, running from \$1.25 to \$3.75 per hundred pounds.  
For stump and rock blasting pyrotol is used just as dynamite would be for the same purpose. Special priming is recommended and its methods are explained in instructions going with the order. For blasting in series electric firing must be used, as pyrotol is too insensitive to "propagate."  
Pyrotol may be used in watered holes by plugging with soap or other waterproof material the small puncture made in priming, even though the explosive is weakened by the moisture it actually receives.  
Caps are supplied at the rate of one cap to two pounds of pyrotol. Sufficient caps are on hand to last approximately the remainder of 1925. However, when the present stock is exhausted, no further supplies will be available. The caps will be boxed in quantities of 25 and 50 to supply purchasers of 50 and 100 pounds of powder. Shipments will be made from the storage magazine. Unless special instructions are received, caps will be shipped shortly before the pyrotol shipments. Inquiries made of the county agents or of the O.A.C. extension service, Corvallis, will receive attention.  
On the occasion of a special service at a village church, the vicar of a large London parish was persuaded to preach. The congregation was naturally an agricultural one.  
After the service the clergyman

The annual Slogan number of The Statesman devoted to the loganberry industry will be published soon, and the Slogan editor will take pains to see that Mr. Cassil receives a copy. There is so much to say in favor of the loganberry that the subject cannot be covered in a short article.

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from London stopped to speak to a very old shepherd in the churchyard, and asked him how many sheep he had in his flock.  
"Three hundred, sir," replied the old man proudly.  
"That's nothing," retorted the other. "My flock is over five thousand strong."  
"My word!" gasped the old shepherd, his eyes glistening at the thought. "You must 'ave had a terrible busy time last lambing season."

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