

as occasionally happens, the wet soil sinks or dries, the mighty trunks are soon piled upon each other as in a Maine log jam. It would be impossible to make even an approximate estimate of the vast amount of timber contained in these veritable "timber mines," suffice it is to say, there is as yet hardly a perceptible sign of any diminution of the supply.—*Buffalo Lumber World.*

LUBRICATING BEARINGS.

Lewis F. Lyne, in the *American Machinist* says: "I remember, some years ago in a mill there was a wall-box supporting a five-inch shaft which would get hot and remain so in spite of all efforts made to cool it. Oil, sulphur and tallow, water, were each used in great abundance, but still the journal refused to surrender. Finally, one night I raised the shaft and removed the composition box, and had it carefully cleaned. The shaft having also been cleaned, a very light film of lamp black was gently rubbed over it. This test revealed the fact that the bearing was all right so far as fitting was concerned, but the surface of both the shaft and box were rough, and the skin of the metal disturbed. The load upon the bearing being heavy, it was sure to heat. I obtained some pure flake graphite, and having melted a pot of pure tallow, I stirred in a liberal dose of the graphite. The box having been replaced, both bearing surfaces were covered with the mixture of graphite and tallow, and the shaft lowered to its place. In the morning, when the machinery was started, the box warmed up about to blood heat and remained so for several hours, after which it cooled down and gave no more trouble. In a few days it was examined, when the surface was found polished like a looking glass. The graphite had become imbedded in the pores of the metal and formed a very fine wearing surface, which ran with every little friction. I have since made use of this mixture for cooling heavy journals and have always found it successful."

ROADSIDE TREES.

The *Country Gentleman* says:—Objections are sometimes raised against tree planting on the roadside, preventing, as is claimed, any drying of the road bed. This would be a small objection on a well drained road. The planting of shade trees on the roadside is very generally conceded to be an improvement to both the road and adjoining property. Particular avenues of well grown trees often gain world-wide reputation. There are many kinds of trees suitable for roadside planting, but for a select list the following are reliable, given in succession according to their merits:

White elm, tulip, scarlet maple, Norway maple, hard maple, horse chestnut, catalpa (*speciosa*), chestnut, white oak and English elm. The tulip, hard maple, and chestnut require a naturally deep, well drained soil in order to thrive. The best effects are obtained by planting one kind for long distance, and neighbors should club together and decide on a tree, and have no other planted in a section of road. Apple trees are very objectionable for this purpose, being naturally low and spreading. The continued trimming up required to keep the branches out of the way soon ruins them. Fruit trees are out of place on the roadside. The proper distance for planting is eight to ten feet from the line and thirty feet apart. Trees should be well protected by stakes or boxes for a few years. Nursery-grown trees are the cheapest in the end.

An Important Sale.

The Mackinaw Lumber Company has sold the cut of its mills at St. Ignace and at Black River for the season of 1892 to the Bogus-Badenoch Company, and another party on private terms, the sale covering overy stick of lumber manufactured in both mills, or 25,000,000 feet—one of the largest sales thus far reported. A man will be sent to St. Ignace in the interest of the purchasers to look after the local trade. The sale does not cover the lumber on the dock of last year's cut.

THREE requisites—pens, pins and needles. The latter you can get of any makes, but when you want a good pen get one of Esterbrook's.

A BIG SMOKE STACK.

The *Lumberman's Gazette* says the new smoke stack recently erected by the Dubuque lumber company to make a suitable draft for the furnace was fully tested yesterday. It starts horizontally from the boilers, runs along the bluff and terminates on top of the bluff, a distance of 430 feet, the longest and largest smoke stack in this state without doubt. Sheet iron five feet in diameter is used from the boilers to the bluff, where brick masonry commences up the incline until the brow of the bluff is reached, where a tall sheet iron stack tops out the structure, making a draft of 480 feet. The suction is enough to haul up a small man, and the fireman has to be weighted down when venturing near the furnace door, to save himself from going up the spout. Sawdust burns fiercely, and sparks and cinders are carried to the sky. The improvement fully meets expectations, and will prove to be a paying investment in the matter of fuel alone.

Pulp Paper Process.

The methods of manufacturing paper from wood are being revolutionized. One Stephen M. Allen has invented a machine which dispenses with the beater and other apparatus heretofore in use, so that wood, sizing and other necessary material is by one operation ground, beaten and delivered to the paper machines requiring, as is claimed, but five minutes to convert the wood in its stick form, with the other essentials, into a sheet of dried white paper. Commonly wood-grinding has been a separate enterprise, pulp-mills being established to make the material for the paper men, who bought it already prepared, mixing it with rags and other material, and after proper manipulation running it off on to paper machines, which shows the greater economy and increased efficiency of the new device.—*North Western Lumberman.*

Disappearance of Forests.

In some cantons of Switzerland, says the *Lumber World*, there is a law forbidding the destruction of a tree without planting another to take its place. The law is an outgrowth of necessity. It has been scientifically demonstrated that the increase in violent storms, inundations, and landslides in Switzerland, scattering death and destruction on all sides, is due to deforesting the mountains. Gradually the timber has disappeared, until little remains except on the high slopes of the mountains, and that little is of inferior size and quality. Unless the process is arrested the mountains of Switzerland will present as bald an appearance as those Alps that divide France and Italy, and nothing more desolate and drear outside of the steeples of Asia or the desert of Africa presents itself to the eye of the traveller.

A TELEGRAM from Ottawa says:—The limit of fifty square miles on the Kippawa, owned by the Messrs. McMaster, of Toronto, was recently purchased by Mr. Oliver Latour, the price paid being \$20,000. The same gentleman also purchased two limits of ninety-six square miles on the same river from Mr. James Ross. \$10,000 was the amount paid. Mr. Latour has sold his Deep river limit of sixty square miles to Messrs. Bronson & Weston.

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