

The cultivation should be thorough to encourage the rapid and healthy growth of the young trees, and it should be continued until the plants entirely shade the ground—a varying period, depending upon the character of the trees, and in part upon the breadth of the foliage.

Until the trees have attained sufficient size to protect themselves, it will be necessary to exclude all domestic animals—or, indeed, these should never be admitted to the plantations.

Dr. J. A. Warder.

#### ARRIVALS IN THE CLYDE.

The *Timber Trades Journal*, of July 22, says: The Norwegian bark Dronnigan, 838 tons, Captain Anderson, arrived in the Clyde with a cargo of timber from Quebec. She was the first arrival of a timber-laden vessel from the St. Lawrence this season. She sailed from Quebec on the 14th of June, and made the passage in thirty days. The East, 1,153 tons, Captain Lochhead, arrived on the 16th inst. She sailed on the 15th June, making the same length of passage as the Dronnigan. The ship Abbotsford, 1,177 tons, Captain Williams, also arrived on Saturday, but as she sailed on the 9th June she was six days longer on the passage than the Abi ord. All the masters report the winds strong and variable. The first arrival in the Clyde from Quebec last year was the ship Boyne, 1,350 tons, Captain Rae. She arrived on the 17th of June, and the Almeer, Captain Oswald, on the 28th June. In 1880 the Orleans, Captain Cloutier, arrived on the 30th of June. The fleet this year will be much later in arriving than usual, owing to the protracted passages they had out by being icebound.

#### Blowing Up Trees With Dynamite.

C. P. Markle & Sons, of Markleton, Somerset county, Pa., have a pulp manufactory, consuming spruce and hemlock timber. Their operations are large, and instead of practicing the slow method of chopping down trees and sawing them up, in order to get the wood into the pulp-mill, they blow them to splinters with dynamite. An eye-witness thus describes the process:—A fine large spruce was selected, and a hole was driven in about 10 inches, the chips were removed, and a dynamite cartridge inserted. The dynamite comes in sticks like a candle and resembles moist brown sugar. A fuse was attached, and the men sought a place of safety. In a few seconds there was a mighty roar, and the great tree was lifted up in the air about 10 feet, and then with a swoop and crash it came to the earth, splintered half way up the trunk. Dynamite is not cheap, but, taking into consideration the time, labor, wear and tear of tools saved, is not as expensive as might be supposed.—*North-western Lumberman*.

The *Timber Trades Journal* says we understand that a firm of large timber exporters have decided to bring forward their goods in future as far as possible by steamers, and that special arrangements have been made so as to permit of several steamers being discharged simultaneously. The new system inaugurated, of bringing forward as much as possible by steamer, carries with it two decided effects. The most important is that the bulk of the timber imported will in the near future be brought over in English bottoms; the second is, that the doing of trade by the smaller-importing houses will in many respects be rendered more difficult.

The *Ottawa Citizen*, of August 2nd, says:—There was a jolly party assembled at the foot of the locks yesterday to enjoy raftmen's fare on a splendid raft of timber which had been brought from Victoria Creek. The raft is in charge of Mr. J. McIver. This is the first raft that ever came through the Victoria Creek—300 miles above Ottawa—the firm of R. & J. White having spent upwards of \$30,000 to enable them to get their timber through. The above improvements were under the supervision of Mr. J. S. Poupore, who is the agent for the firm. There are about 150 cribs of first-class pine lumber in the raft. As the steamer *Rover* swung the raft—about two and a half acres in dimension—out of the bay it was a grand sight. The cabin comprised a village in themselves.

#### QUEBEC DOLLARS OFFICE.

The following is a comparative statement of Timber, Masts, Bowsprits, Spars, Staves, &c., measured and culled to July 28:

|                       | 1890.     | 1891.     | 1892.     |
|-----------------------|-----------|-----------|-----------|
| Waney White Pine..... | 875,765   | 892,910   | 789,677   |
| White Pine.....       | 1,812,708 | 2,350,871 | 2,689,084 |
| Red Pine.....         | 888,822   | 903,593   | 892,890   |
| Oak.....              | 824,800   | 1,635,533 | 645,069   |
| Elm.....              | 602,608   | 778,979   | 441,590   |
| Ash.....              | 174,250   | 250,430   | 160,081   |
| Basswood.....         | 90        | 3,009     | 250       |
| Butternut.....        | 448       | 897       | 1,900     |
| Tamarac.....          | 15,504    | 5,949     | 1,427     |
| Birch and Maple.....  | 664,483   | 123,232   | 202,273   |
| Masts.....            |           |           | 33 pcs    |
| Spars.....            | 12,800    | 160,213   | 237,321   |
| 6th Staves.....       | 224,919   | 193,817   | 604,100   |
| W. I. Staves.....     |           |           | 106,54    |
| Brl. Staves.....      |           |           |           |

ALEXANDER FRASER,

Deputy Supervisor.

Quebec, 28th July, 1892

#### RAFTS ARRIVED.

The Quebec Chronicle gives the following list of rafts &c., arrived:—

July 24—Thomas Totu, deals, Black River. Sundry lots, deals, South Quebec.  
July 27—R. & W. Conroy (2), red and white pine, Dubell & Co's cargo.  
Bell & Hickory, red and white pine, St. Lawrence docks.  
A. & P. White, red and white pine, Cap Rouge.  
Ross Bros., deals, Buckingham.  
J. B. Dickson, white and red pine, Cap Rouge.  
R. Campbell & Son, white and red pine, Cap Rouge.

TEABERRY whitens the teeth like chastened pearls. A five cent sample settles it.

"AND FOOLS who came to scoff remained to pray."—We receive many letters from those having tried while doubting, yet were entirely cured of dyspepsia and liver troubles with Zoposa. Clergymen write us earnestly as to its wonderful effects.

WE CONTRACTED to insert Mack's Magnetic Medicine because we were assured that the firm was composed of reliable and honorable gentlemen, and also because the medicine was recommended as being all and more than the advertisement claimed. We are informed by druggists that it is the best selling article they have, and that it gives satisfaction to their customers. See advertisement in another column.

A healthy man never thinks of his stomach. The dyspeptic thinks of nothing else. Indigestion is a constant reminder. The wise man who finds himself suffering will spend a few cents for a bottle of Zoposa, from Brazil, the now and remarkable compound for cleansing and toning the system, for assisting the digestive apparatus and the liver to properly perform their duties in assimilating the food. Get a ten cent sample of Zoposa, the new remedy, of your druggist. A few doses will surprise you.

C. BARRON, Lindsay, Ont., writes:—"I have much pleasure in recommending Baxter's Mandrake Bitters in all cases of Jaundice, Biliousness, Sick Headache and Liver Complaint, for they have given universal satisfaction, and I have sold more of them the past season than any other one patent medicine."

### AMERICAN FORESTRY CONGRESS, MONTREAL MEETINGS, AUGUST 21st and 22nd, 1892.

PATRON:

HIS HONOR LT. GOV. ROBITAILLE.

All interested in the subject of Forestry are invited to attend the Meetings and participate in the proceedings.

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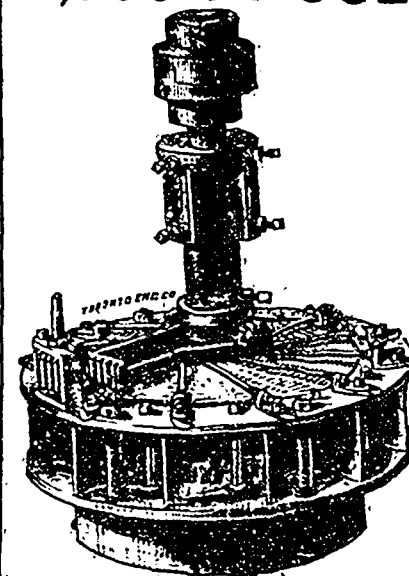
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