THE DESTRUCTION OF FORESTS.

The remark is made by a Texas newspaper that "one of the atrongest arguments in favor of preserving forests is to be found in Chinese history The terrible famine which raged in that country several years ago, was brought about by the destruction of the few forests left standing, thereby rendering it impossible for the soil to retain the little rain that fell from time to time."

Notwithstanding the scientific theory and facts involved, the destruction of trees continues in many sections where this element of protec tion is largely lacking, without much concerted offert toward referesting the land, and it is not the manufacture of lumber that relieves the country of timber so much as the reckless slaughter of trees that is made in wooded regions for the purpose of clearing lands, and where the timber is burned up or disposed of wastefully. Since the forests must continue to be drawn upon for lumber supplies to answer to a necessary want universally felt, whatever timber is wilfully destroyed and diverted from the channel of lumber manufacture, with no object beyond getting it out of the way, will produce that much shortage in the reserve supply of timber, and the conquest of the saw mills will simply be hastened to an earlier consummation. While it 18 a fact that trees serve one of nature's offices in permitting meisture to be readily retained in the soil, and are naturally a necessity in many ways, it is still true that so far as the question of lumber goes, the exhaustion of the tree supply of the world would be less feit in the latter direction than in any other. When it comes to a matter of absolute necessity, a substitute could be found for lumber in nearly every line of its use, if not all of them, but the natural advantages to land accruing fre a forests, can, in no other way, be secured. Hence the proposition of the lumber needs of a country is almost the smallest argument in favor of forestry projects for retimbering localities. One of the best moves that could be made would be to inaugurate a more practical government policy than is now in operation to prevent a wrong use of timber and its reckless destruction, a move fully as important as that land pre-emptors should be required to conform to the tree-planting law; for while in the one case much care. effort and time is required to grow forests, in the other case they are already grown, and it is only necessary to properly husband the supplies-Preventing the destruction of trees to-day is an act performing the same service that age would accomplish, for trees don't grow with the same colerity as garden vegetables. Prevention is better in this case than raising small trees for transplanting. - Northwestern Lumberman.

A STEAMSHIP WITH A CARGO OF SQUARE TIMBER

The Timber Trades Journal says the most novel feature of the present year in regard to the wood carrying trade is probably the arrival here of a large, well-appointed steamship from Penascola with a complete cargo of pitch pine timber.

The question not unnaturally suggests itself. can vessels of this character be profitably employed in bringing timber in large logs? The Deeplale-for so the vessel we refer to is called -belonging to Sunderland, arrived in the Surrey Commercial Docks on Saturday last, after a very protracted voyage from West Florida. Running short of fuel she had to call at Halifax on her homeward voyage, to coal, a proceeding which took her considerably out of her course. It is true that tu's delay had nothing to do with the description of the cargo she had on board; but, judging from other circumstances, it is evident that, as stramships are at present constructed, timber in large logic will not pay as a freight. Cargoes, a in this case, of part timber and deals may be carried when a ship of the kind finds herself reatimher port with no other freight to load home, and it becomes a question of loading be last or taking what the part offers in the way of marchandise, which was most likely the condition of affairs with regard to the Deeplace. But that log timber will become a recognized freight for

sel was three weeks loading at Penascola, work ing the fore and aft hatches; taking the logs aboard piece by piece, and we can hardly imagine that she could accomplish her task any quicker, for in the Surrey Commercial Docks, where every facility is afforded for quick discharge at the rate of a piece a minute, the authorities expect to take quite a week to empty this vessel's hold. We watched the Deepdale discharging as she lay in the middle of Canada Dock, and seckoned that the pieces being heisted out of the hold by a crane forward and another aft did not occupy much more than the time mentioned, and yet the process appeared tedious. The huge logs raised out of the hold by the cranes were lowered steadily on to the gunwale, and let glide into the water, end first, with a mighty splash, where they disappeared for a short time, the impetus from such a fall carrying them a considerable distance below the surface. If this simple mode of getting clear of the stuff was to take a week or more, it was evident that the task of loading and slowing logs of the kind must have been a protracted affair.

Steamers, like horses, in idleness, cat up the profits by their expensiveness, and on rapidity of taking in and discharging their cargoes depends their ability to compete with sailing ships in carrying deals. To steamers, celerity is almost a vital point, and it is the difficulty of getting hown timber, in heavy pieces, quickly in and out, that will, we expect, keep this portion of the wood-carrying trade for a long while to come in the hands of sailing ships.

Of course bow and stern ports would make a vast difference in the way of affording better facilities for loading and discharging heavy timber, but, as most steamers are built in watertight compartments, another difficulty would be presented, though for ordinary average timber it would not seem impracticable to get it on board through bow or side ports. Until something is done in this respect, there will always be the same delay in shipping large timber down the hatchways. It is true that a crane will raise a log of a ton weight with just the same facility it will a ton of deals, but when the latter is unloosed from the slings it can be handled with case, and distributed in the hold quickly, while on the other hand the log is just as much an obstacle when lowered into the cramped space of a steamship's hold as it was on

The Deepdale, it is stated, is the largest teamer with a wood freight that has ever entered the Surrey Commercial Docks, and is calculated to have on board nearly 900 standards of timber of one kind and another. The number of logs of pitch pine are reckened at something like 4,000, while she has for stowage between 2,000 and 3,000 deals, &c. The bulk of her cargo consists, however, of sawn logs of the usual full average; and one thing can be said of her, that, if she has been a long time about it, at any rate she brings a cargo equal to that of three ordinary sailing ships. That her arrival here with pitch pine logs will form a precedent in the establishment of a carrying trade by steamers of large timber we consider very unlikely.

BOARD OF TRADE BETURNS.

The Timber Trades Journal says :- Those who call to mind that at this time last year the Baltic and Swedish ports were still shut up with ice, and that this year many of them have been scarcely closed at all, will not be surprised to learn, from the Board of Trade returns, that the timber importations for last month are nearly double the amount of those of March in 1881. In that month the sum was 96,455 loads, in the month just passed (March) 189,371 loads, which looked as if, beginning so early, we were in the way to have an overstock by the end of the season. The excess in the first three months of 1882 over the same period in 1881 amounts, in fact, to 130.584 loads—rather formidable figures. but by no means alarming or unprecedented. for as recently as 1880 the importation up to the and of March reached the total of 529,694 loads -that is, 195,767 loads more than in 1881, and 65.183 loads more than the first quarter of the present year.

with every advantage in favor of early importation, following at a modest distance the footsteps of the trade in 1880, with a palpable interval between, which precludes the likelihood of our speedily overtaking it.

We nut these little calculations here to show that, "as far as we have got,' as Artemus Ward would say, the importation cannot be considered in any degree excessive, and that the timber trade is therefore prima facie in a very satisfactory condition.

The following are the figures furnished by the Board of Trade :-

MUNTIL ENDED SIST MARCH, 1882.		
	Quantity.	Value.
Timber (Heun).	Loads	£
Timber (Heun). Russla	940	6,032
Sweden and Norway	39,416	57,497
Germany	3,702	13,231
United States	, 16,969	54,129
British India	9,062	126,270
British North Americ	466	1,359
Other Countries	29,968	30,688
Total	. 101,413	295,108
Timber (Sawn or Split, Planed or Dressed).		·
Russia	1.947	4.330
Sweden and Norway		182,794
British North America		20,593
Other Countries	25,078	80,547
Total	87,968	244,264
Staves, (all sizes)	4500	23,800
Mahogany (tons)	0740	24,602
Total of Hown and Sawn	160 971	539,370
THREE MONTHS ENDED 3181	r marcii, 1882	2
Timber (Hewn).		
Russia	7.164	21,520
Consider and Masses	CA 000	104 000

| 7,105
| Sweden and Norway | 50,368
| Germany | 10,175
| United States | 24,073
| British India | 15,475
| British North America | 072 Other Countries..... 89,676 102,283 Total237.901 503,271

| Timber (Sawn or Split, | Planed or Dressed). | Russis. | 18,521 | Swoden and Norway | 116,699 | British North America | 42,003 | Other Countries. | 49,487 43,291 811,409 105,628 160,910 621,138

Total......226,610

 Staves (all sizes)
 13,193

 Mahogany (tons)
 6,474

 Total of Hewn and Sawn
 464,511

WOODWORK THAT WILL NOT BURN

84,418

In a London paper is published a letter from Mr. F. H. Gossage, who makes some very important statements. He says: "I find that painting woodwork of any kind with several coats of solution of silicate of sods, and finishing off with a mixture of this solution and sufficient common whiting to make it about as thick as ordinary paint, is a most excellent protection against fire. Wood treated in this way will not take fire ...om mere contact with flame; it requires to be heated till destructive distillation begins. Then, of course, cases are given out which ignite, and the wood is gradually converted into charcoal, but until destructive distillation takes place the coated wood will not support combustion. A few years since I had some screens made like ordinary doors, some prepared as I have described, and some not. They were then placed over a fire of shavings, which was kept constantly renewed. In ten minutes the unprepared screens were blazing away, and so nearly consumed that they had to be supported by an iron bar. The flames continued to lick the prepared screens for 30 minutes before the distillation commenced. After 45 minutes the coated screens were still intact, and able to support themselves, and in an hour, although pierced in many places with holes, they held to gether, and when the fire was removed they did not continue to burn. This was a splendid success, and I still have the remains of the screens. The experiments were made at my suggestion, for the managers of the Liverpool Philharmonic Society, and the woodwork of their splendid hall at Liverpool was treated in this manner. I am sure a good deal might be done with this simple and inexpensive process to reduce the possibility of fires, especially in public buildings, theatres, etc., for, if the woodwork was thus treated, draperies and scenery would burn away before the heavy timberwork of the structure would take fire.'

"CUTTING THE KEY LOG,"

The first thing to be done is to find out where From these comparisons it will be seen that I the jam occurred, and then to discover what is

experienced "stream driver" is soon on the spot, for the news is seen carried up stream that there is a "jam" below. Every minute is of consequence, as logs are coming down and the "jam" increasing in strength. The "key log" being found, there is a cry for volunteers to cut it. Now, when you consider that there are some hundred big logs of timber forming a dam, and the instant the key log is cut the whole fabric comes rushing down with a crush, you will see that unless the axe-man gots instantly away he is crushed to death. There are usually in a camp plenty of men ready to volunteer: for a man who cuts a key log is looked upon by the rest of the loggers just as a soldier is by his regiment when he has done any act of bravery. The man I saw cut away a log which brought down the whole jam of logs was quite a young fellow, some twenty years of age. stripped everything save his drawers; a strong rope was placed under his arms and a gang of smart young fellows held the end. The man shook hands with his comrades and quietly walked out on the logs, axe in hand. I do not know how the loggy-road one felt, but I shall never forget my feelings. The man was quietly walking to what very likely might be his death. At any moment the jam might break of its own accord, and also, if he cut the key log, unless he instantly got out of the way, he would be crushed by the falling timber. was a dead silence while the keen axe was dropped with force and skill upon the pine log. Now the notch was near half through the log, one or two more blows, and a crack was heard. The men got in all the slack of rope that held the axe-man. Like many others, I rushed to help haul away the poor fellow, but to any great joy I saw him safe on the bank, certainly sadly bruised and bleeding from sundry wounds, but safe. - The Field.

A DIFFICULTY OVERCOME.

The Little Quinnesco falls, on the Menominee river, have for years past caused great damage to ogs passing over them. The falls have a descent of 75 feet—not perpendicular, but on an angle of 45°—over a rough and ragged ledge. The damage caused to the logs has been variously estimated at from 10 to 20 per cent. The Menominee River Manufacturing Company, during the past five years, has expended upvards of \$8,000 in blasting the ledge and building breakwaters to lesson, if possible, the damage caused to the logs. Nothing that it did, however, seemed to obviate the difficulty. During the past winter the Hon. I. Stephenson conceived the idea of cutting a canal through the solid ledge along the side of the falls. The survey was made, the amount of rock to be ex cavated ascertained, and the probable cost estimated. The plan seemed feasible, and the board of directors of the above named company authorized Mr. Stephenson to go on and com plete the canal. Work was commenced in February, and pushed with such vigor that the undertaking was near completion when the rise of the river prevented further work at present. Rut the canal, or cut, was so nearly finished that when the cofferdam at the head was removed, which was on April 19, it was found to work like a charm—all logs running in the river passing through the cut without any damage whatever. The cut is about 300 feet in length, 40 feet wide at the entrance, and narrowing down to 20 feet at the terminus. The average depth of the cut is about 10 feet. The cost when completed will be about \$15,000.-Northvestern Lumberman.

THE SUPPLY OF TIMBER.

The Northwestern Lumberman says the supply of cedar, while not exhaustless, is happily such as to lead to no well-grounded fear of a scarcity for many years. Vast tracts of cedar lands are to be found contiguous to the Huron shore of Michigan, while no inconsiderable quantity exists in the less settled upper peninsula. The islands of Lake Huron are many of them leaded with it, while those of the Georgian Bay, on which this timber predominates may be number by the score. One of these islands is estimated to cut no less than 50,000 telegraph poles and 500,000 ratiroad ties, besides innumerable posts, steamsules is, we imagine to while we are naturally surpassing the fettered called the "key log," that is to say, the log and is but one of the smallest islands of the pecomplishment yet. We understand this vest trade in foreign timber of last spring, we are, which holds the base of the "jam." An old bay, at that, The islands and much of the