

The Wisconsin lumberman, devoted to the lumbering interests of the northwest. July, 1874

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Wisconsin Lumberman,

DEVOTED TO THE

Lumbering Interests of the Northwest.

JULY, 1874.

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EDITORS: E. B. NORTHROP and H. A. CHITTENDEN, JR.

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THE WISCONSIN LUMBERMAN PUBLISHING CO., GRAND OPERA HOUSE, 62 ONEIDA STREET.

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WISCONSIN LUMBERMAN.

Vol. II.—JULY, 1874.—No. 4.

INSPECTION OF LUMBER.

There is no stronger proof of lack of system in the lumber business than the great disparity of the inspection rules and laws of the different lumbering centers of the country. We can best illustrate the difference in rules of inspection by giving examples of those rules. For instance, the rules of inspection which were adopted last spring by the Lumbermans Board of Trade of Chicago, declare that first clear lumber shall be:

"Not less than eleven inches in width, and no imperfections allowed unless fourteen inches wide or upwards; will then allow imperfections equal to sap one inch on one side extending the whole length of the piece, on pieces fourteen inches wide and well manufactured, but the face side must be perfect; as width increases will allow larger imperfections in proportion to the width, but not imperfections enough to decrease the value below the above-described piece."

Chicago handles nearly or quite a billion feet of Michigan pine yearly, yet mark the Michigan standard of first clear.

feet long, and one inch thick, and at such width and up to ten inches wide, shall be free from all imperfec tions. If the width is twelve inches, defects shall be allowed that will equal knots in the aggregate of one inch in diameter, or sap that will be equal to one and one-half inches in width on one side. If the width is sixteen inches, defects shall be allowed that will be equal to knots in the aggregate of two inches in diameter, or sap that will be equal to two inches on one side. If the width is twenty inches, defects shall be allowed that will be equal to knots in the aggregate of two and one-half inches in diameter, or sap that will be equal to sap three inches in width on one side."

In the Michigan inspection law allowances are also made for each additional half inch in thickness. Our readers will observe the wide disparity between the inspection law of Michigan and the inspection rules of Chicago, and by looking at their back numbers of the Wisconsin Lum-BERMAN they will, on comparing the two rules referred to, see that about the same difference runs all through "First clear lumber shall not be the separate specifications. Wisconless than eight inches wide, twelve sin has no positive rules of inspection.

At the Mississippi markets inspection is hap-hazzard. Philadelphia, New York and the eastern markets generally, hardly seem to realize that a definite inspection law ever existed in any locality. It is perfectly evident that if the great lumbering centers could agree upon uniform inspection rules and then that those rules might become the legal inspection guide by action of the different state legislatures, the business of lumbering would be vastly benefitted. It is time that certainly lumbermen took some action in the matter of obtaining a law or laws that shall give some definite standard of inspection for the entire country.

THE LUMBERMEN'S CONVENTION AT WILLIAMS-PORT.

The lumbermen who assembled at Williamsport, Pa., on the 23rd of June for the purpose of organizing a national association, were successful in their efforts. A national association of lumbermen has actually been formed. Thereby good has been ac-The convention was complished. small in numbers, but powerful as the representative of wealth, business and energy. It was not expected Williamsport would result in greater good than in the laying of the foundation of an organization which is to eventually become powerful in its influence and protective of the lumbering interests of the country. The firm establishment of a great national association may and should result from the work now accomplished. Local and state associations are ab-

and solutely necessary to sugges organize measures which may subsequently be carried out through the force and power of the national association. A good beginning has been made by the convention at Williamsport. Let the work be encouraged. The amount of business transacted at Williamsport by the convention, although somewhat meagre in comparison to meetings of similar importance, seems to cover the entire grounds for which the convention as sembled.

The convention met in pursuance of call, at 3 P. M., Tuesday, June 23rd, and was called to order by Edgar Munson, President of the West Branch Lumbermen's Exchange. In the course of appropriate remarks Mr. Munson nominated Hon. Ezra Rust of Saginaw, Mich., as temporary chairman of the convention. On Mr. Rusts taking the chair the active business of the convention commenced. The temporary organization was first perfected and a committee to nominate permanent officers of the convention was appointed; then the convention adjourned until Wednesday morning, June 24th, at 10 o'clock A. M.

The committee to nominate perthat a gathering of lumbermen at manent officers of the convention reported as follows:

For President-Hon. L. D. Whitmore, of Warren, Pa.

Vice Presidents-Hon. J. G. Thorp, of Eau Claire, Wis. Hon. Ezra Rust, of Saginaw, Mich. C. T. Marston, Hartford, Ct.

Recording Secretaries - J. R. Smith, Buffalo, N. Y. H. H. Colquitt, Savannah, Ga.

Corresponding Secretary-J. Henry Symonds, Boston, Mass.

The gentlemen nominated by the committee were unanimously elected officers of the convention. After a committee of five was appointed to report articles of association, the convention proceeded to discuss the question of reciprocity with Canada and the following resolution was passed:

Resolved, That, in the judgment of this convention, the proposed treaty of reciprocity with Canada would be injurious to the industrial interests of the whole country, and should not be ratified; that its effect upon the business which we especially represent would be most disastrous, and would compel a large reduction in wages in order to compete with the cheaper labor of Canada, or the suspension of business in many sections of the country where it is now extensively carried on.

The committee on articles of association reported Thursday morning, and their report was adopted after thorough discussion of the several articles of association as presented by the committee.

The committee on association and by-laws beg leave to report the following as rules and by-laws for the national association of lumbermen.

1. The name of this association shall be the national association of bursements for expenses of the assolumbermen.

2. Until the next meeting of this association the affairs thereof shall be conducted by a president, vice president, secretary and corresponding secretary, treasurer, and an executive committee of thirteen. The president and secretary shall be the association, with the general cormembers of said committee, and five responding secretary of the associaof its members shall constitute a tion, and shall have power to change quorum. All the aforementioned such appointment in their discretion. officers shall be selected by this con-

regular election under the association shall take place; and shall perform such duties as ordinarily appertain to their offices respectively.

3. No person shall be eligible to membership of the association except such as are engaged in the manufacture of lumber or timber of any kind. round; hewn or sawed, or who may be the owner of timber lands; and such persons may become members on the approval of the executive committee and the payment of an entrance fee of \$10.

4. The Treasurer of this association shall give a bond payable to the president thereof, for the safekeeping or honest disbursement of such funds as may come into his possession for the association, said bond to be satisfactory, in amount and sureties, to the executive committee.

5. All disbursements by the Treasurer shall be on written orders of the executive committee.

6. The election of officers of the association hereafter, shall be at the annual meetings of the association, the first of which shall be on theday of - at -, and the subsequent elections shall be at such time and place as may be appointed at the next preceeding annual meeting.

7. The President, if present, shall preside at all meetings of the association or executive committee, and shall have with the consent of the executive committee, power to call any and all extra meetings of the association and order any and all disciation.

8. The executive committee shall have power to appoint a corresponding secretary of the association in every state of the Union, whose duties shall be to correspond, upon matters pertaining to the interest of

It shall be the duty of the execuvention, and shall hold office until a tive committee to keep a true record annual reports to the association of retary of the association be made a such information as may have been member of the committee, this com-

procured during the year.

The committee are of the opinion that they will best promote the interests of the association by proposing, until the next regular annual meeting of this convention, the foregoing rules and regulations, and recommend that the executive committee be required to prepare in detail a perfected plan of organization, to be submitted at the first meeting of the association to be held hereafter.

They recommend, also that the association be incorporated; but prefer to leave the question of how, when and where, to the executive

committee.

The blanks in the articles reported by the committee were filled by designating the third Tuesday of September as the time of the next annual meeting, and East Saginaw was selected as the place of holding such meeting.

The committee on the order of business, reported the following resolution:

Resolved. That two committees, five each, one for white pine and one for yellow, from the different manufacturing points, be appointed by the chairman to recommend rules for the uniform inspection, measurement and classification of lumber, to report at the next meeting of this association.

Resolved. That a committee of seven be appointed to procure statistics covering the amount of white pine and yellow, and other valuable timber standing in the United States and Canada, and where located; also the production distribution and consumption of the same, and such other statistical information as would give the accurate idea obtainable on all matters of interest to the lumber trade, and your committee would

of all their proceedings, and to make suggest that the corresponding secmittee to report at the next meeting of the association.

> R. M. Forsman of Pennsylvania, offered a resolution, urging the importance of forming local organizations, which was adopted. On motion of W. H. H. Bartram, of Michigan, it was voted that the secretaries of local organizations be requested to report the basis of said organizations and the names of their officers.

> On motion of Edmand Blanchard of Pennsylvania, it was voted that a committee of five be appointed by the chair to devise means to regulate the supply of lumber in accordance with the demand.

> The committee on permanent organization made the following report:

> President-L. D. Wetmore, Warren. Pa.

Vice President-J. G. Thorp, Eau Claire, Wis.

Treasurer—Bodo Otto, Williamsport.

Secretary-F. E. Embick, Williamsport.

Corresponding Secretary-J. Henry Symonds, Boston, Mass.

Executive Committee-W. H. Armstrong, Edgar Munson, Williamsport, Pa; R. K. Hawley, Baltimore; James R. Smith, Buffalo; T. L. Kinsey, Savannah, Ga.; George E. Scott, Pensacola, Fla; C. T. Marston, Hartford, Conn.; H. M. Prentiss, Bangor, Me.; N. B. Bradley, Bay City, Mich.; Thad. C. Pound, Chippewa Falls, Wis ; Wm. Knight, St. Paul, Minn.

The gentlemen mentioned in the report of the committee on permanent organization were unanimously elected officers of the national asso- Canada shall again be brought before ciation for the ensuing year.

Mr. Gleason of Florida, introduced sion and passage. the following resolution, which was adopted.

Resolved. That the thanks of this convention be tendered to the West Branch Lumbermen's Exchange, of Williamsport, for the invitation, in response to which the convention met in this city, and for their very courteous and hospitable reception and entertainment of its members.

On motion of H. White of Pennsylvania, a vote of thanks was offered to the officers of the convention.

On motion of Mr. Bartram, it was ordered that the proceedings of this convention be published in pamphlet form, and distributed among the lumbermen of the United States.

The convention then adjourned sine die.

The discussion of the reciprocity treaty by the convention was quite thorough. The discussion showed conclusively that the interests of different localities and of the different branches of the lumber trade are diametrically opposed to each other. The first labor of the association should be with the object of harmonizing, so far as possible, these different interests. The matter of a reciprocity treaty with Canada must be thoroughly canvassed before the meeting of the next congress. The "NATIONAL ASSOCIATION" should be canvass. There is no doubt but the than Michigan lumber for the reason exercise a very great influence and standard of dimension-largely 13 ft. bearing upon the action of congress boards-required by the New York when the reciprocity treaty with market. Some dealers in New York

one national legislators for discus-

THE LUMBER TRADE AT THE EAST.

The lumber dealers in New York and Philadelphia bear about the same relation to the Southern, Canadian and Western manufacturers, as Western and Southern retail merchants and jobbers do to the great wholesale houses of New York. While there are nearly as many lumber vards in either Philadelphia or New York as there are in Chicago, vet by far the greater portion of the lumber sold by the New York and Philadelphia dealers is purchased by the carpenter and builders for local use, or is used by the cabinet and furniture manufacturers. Large quantities of yellow pine are handled in the eastern markets which is brought by cargo from Florida, Georgia and Virginia. The specialty in vellow pine is flooring, although large quantities of plank, dimension stuff and ship timber is also used. Philadelphia is now using considerable white pine from Michigan, although, very naturally, the Susquehanna yet furnishes the largest amount. firms are endeavoring to introduce cypress lumber to the favor of consumers, but with indifferent success. At New York Canadian lumber is first and foremost in making that largely used and is in better favor association, if strengthened by the (aside from cost) that Canadian manmanufacturers of the northwest, will ufacturers furnish the particular

complain that the Michigan standard pay very little attention to western of inspection is not high enough; be- lumber or prices or condition of the lieving that first clear, of any width or length, should be absolutely free The different from imperfection. varieties of hardwoods enter largely into the lumber traffic of the eastern cities, much of which consists of ward for the better grades. valuable foreign woods. Eastern dealers complain of general dullness in the trade, although when closely questioned they acknowledge fair average sales during the season thus far; also that the lumber business is as prosperous as any other branch of trade. The gambling which was acute last fall has in fact become chronic, and will only be relieved by a full realization that prices and business are assuming a true commercial basis in place of the extravagancies of the Lumbermen forget, past decade. when they complain of low prices in their particular line, that the stock in trade of the grocer, the dry goods dealer and the iron man is also at the bottom price. Considering the purchasing power of money now, it must be acknowledged that present profits on every board sold by the retail dealers are fairly remunerative. Only the debtor class have a right to complain, and they are chiefly among the manufacturers. The eastern yards are fairly stocked with both northern and southern lumber and trade is really good at the retail yards. The carefulness and economy exhibited in handling and selling lumber in custom yards, would be worth imitating by our western manufacturers

maaket. They are governed by the southern pine districts and Canada. There will soon be a radical change in that respect, for there is an occassional reaching westgan and Wisconsin clear stuff will soon find a better market in New York and Boston than it now does at the west and will be shipped eastward to supply a demand which cannot much longer be filled from present sources. Neither New York nor Philadelphia can boast of a lumber exchange or association of any kind in their particular interest. The result is pretty close competition, a "variety" of inspection rules and an unusually large number of "hucksters," who "middle" between a builder and anyone from whom they may be able to secure a bill of lumber at the lowest price. pectfully submit to New York and Philadelphia dealers that an association or exchange at their respective cities would greatly advance the interests of their business.

The Oshkosh Northwestern, in summing up the work of the Fox and Wisconsin Rivers Improvement Convention, says that one advance stephas been taken in the appointment of a committee to watch the progress of the work and appeal, when advisable, directly to the war department. The question of success is now in the hands of the President, who can seand dealers, and would save many of cure it by appointing business men, them hundreds of dollars annually. and men interested in navigation on At the present time eastern dealers the executive committee, leaving the some other manner.

THE FALL PROSPECTS.

The Wisconsin Lumberman has repeatedly expressed the opinion that prices for lumber would be higher during the fall months than they were during the past spring. We still hold to that opinion. Notwithstanding reported dullness of the different markets a great deal of lumber is being handled by the retail dealers of the country and their sales are very nearly, or quite, up to the average for the time of year. There has really-averaging the different portions of the country-been a slight increase in business since the last of May; and there are several reasons why the market will probably continue to advance. The passage of the currency bill has already had some effect in enlivening western business and there is every reason to believe that ere long the west will materially feel the good effect of what may appropriately be termed, western inflation and eastern contraction. The farmers will add an other season of prosperity to their already flourishing situation and will therefore consume more largely of lumber than usual. The low prices -even if an advance of two or three dollars per M., should occur-will be a temptation to buy. Consumers of lumber well know that they can never expect to buy at more favorable terms than are offered them this season; and there is now a strong tendency be used until fall. It has become kee, Wis.

politicians to serve their country in generally understood that there is no overstock of lumber even for the trade which has been considered so dull. There is a better feeling among dealers, as a class, than there was two months ago. Very many would gladly invest at present prices, much more money than is convenient for them to use now. As business revives for the fall trade there is every reason to believe that the lumber business will feel the good effect of that revival, to a greater extent than almost any other trade. During the stagnation which has effected all branches of trade during the season thus far, the lumber business has suffered least of all the manufacturing industries. It has even gained a little in activity while other trades more and more have become The tendency of the depressed. market may now be said to be upwards even if no marked advances in quotations are recorded. The general health of the lumber business just now is decidedly better than that of any other manufacturing businesspoor through you may please to call it. There is a slight strengthening of the pulse now; it will continue; the fall season will be comparitively active and beneficial. And the season of 1874 will close with the lumbermen of the country in much better condition than they were in the fall of 1873.

Examine the "Lumbermen's Register" at the end of this volume and report additions or corrections to the LUMBERMAN PUBLISHING WISCONSIN to purchase lumber which will not Company, 64 Oneida street, Milwau-

LOOKING PINE" IN WISCONSIN.

"Away, away from men and towns To the silent wilderness."

Among lumbermen and in lumbering districts there may be found a class of men about whose duties the public knows very little. These men are known as "land lookers," whose duty is to go into the wilderness and there make a close estimate of the amount of pine on each sub-division of a section, and then determine whether it will pay to "enter" or rather purchase, the land thus esti-These men are either employed by some mill owner or else go into the wilderness on their own account, and when desirable land is amount of pine is called), to some land speculator who will enter the land giving them a third or one-half corner interest in the purchase.

"woods"-as our readers must allow us to call the trackless wilderpack their outfit and travel on foot, desired location where they are to their avocation.

one good heavy blanket, a small axe,

fatiguing and lonesome march is taken up through the woods without a line or path to guide the land-looker; the first case where one has been lost or wandered far from his destination has yet to be found and reported. When the party have arrived near their destination they "take up" some section line and follow it to a section corner, when by a moments' inspection they can tell exactly where they are, by the marking on the corner-post, or in case that has rotted away, by the mark on the bearing-trees. Perhaps our reader will ask what is a bearingtree? It is a tree marked by the United States surveyor to assist in found sell their "minutes," (as their perfecting the identity of section statement of the quality of land and corners. There are generally four of these trees at each corner each faced, or blazed, on a line with the then marked with characters and figures showing the Land lookers generally go in par- range, township, and section, while ties of two or three, going into the their size, description, and location of the compass, together with the distance from the section corner is ness where they operate-with teams recorded in the records which are as far as available, and then the men denominated "field notes," a copy of which every land looker can purguided only by the compass, to the chase by townships at the United States land office or at the school operate, or estimate, as they call land office at Madison. In addition to these corner bearing-trees there A land looker's outfit consists of are two quarter-post bearing-trees to locate the quarter-post, which are small compass-sometimes a shelter faced toward the post, one on each tent-and provisions, which consist side, and marked so as to fix the loprincipally of flour, salt pork and cation of the post in case it should tea, making a pack of seventy-five rot out or get moved. In addition or one hundred pounds which the to these posts and bearing-trees the men, by a packing-strap, fasten section lines are marked by blazing across their shoulders. Although the trees every few rods standing near

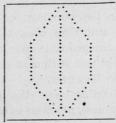
the line, these trees are marked on justice. A few leaves are scraped toeach side and the blaze denotes the gether, or a few green boughs cut direction of the line as they are and piled up, the blanket spread and marked according to the compass, the couch of the tired land looker is either east and west, or north and ready for him. At an early hour he south, and are of equal height on is astir, and each side of the tree.

Arriving at the desired corner, the party make a supply depot, and leave all extra supplies, taking only enough to last them four or five days, one pound of flour, one of salt pork, and 11 oz. of tea is considered a day's supply for each man. Of course this supply and the quality are varied to suit circumstances and location. Our description applies to the professional land lookers, those who go into the vast timbered sections of nothern Wisconsin and spend weeks and months at a time, looking up lands. These men lead a laborious lonesome life, separated from their home and civilization for a long time and compelled to work rain or shine, during the heats of summer or the cold snows of winter, when on their snow-shoes they travel the vast forests guided only by the little packed compass. Yet sickness is almost unknown to them, and for the true qualities of manhood they compare with any man or class of men.

When their supply depot is established the actual work of looking commences. They start out on some desired line and when night comes they select a desirable camping ground, near some stream, build a fire, stir up their flour, put it in the ashes to bake, cook ther pork, boil their tea and supper is ready, and an appetite is never wanted to do it the men to look at nearly every foot

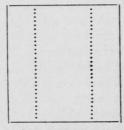
"Who would not rather take his seat Beneath these clumps of trees, The early dawn of day to greet, And catch the healthy breeze, Than on the silken couch of sloth Luxurious to lie?"

When the land looker finds a piece of pine he seeks a section corner or a quarter post and then sub-divides the piece into forty acre lots according to government survey. The land is divided by pacing, and the professional will pace around a section and point out every post and corner with accuracy, varying only a few Five hundred paces make eighty rods, and one hundred and twenty-five, twenty rods. There are several ways of looking over a "forty" and making an estimate of the timber. One is called circling and is done by three men, one paces off forty rods or to the centre of the forty on one side and then starts on a line for the opposite side, while the other men; one on each side circle towards the opposite, keeping about twenty rods apart in the centre. The following diagram will illustrate this manner of circling:

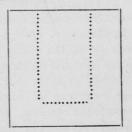


This method as will be seen allows

very heavily timbered. generally adopted where there are two men) to pace off twenty rods from each side of the forty and then make a line for the opposite side, thus giving each man twenty rods on each side to look over. The following will illustrate the principle:



There is another form, which is generally adopted where there is only one man, and the following diagram will illustrate it:



This method allows one man to look it over carefully. Where the timber is very heavy the forty is divided into ten acre lots, or rather quarters, and then about the same course is pursued as is done with a forty except that each man has only ten rods to look over.

In estimating pine the height, size, soundness, nearness to streams, taken into consideration and enables of the company, also a stockholder.

of the ground unless it should be the land looker to form a very ac-Another curate estimate as to its value. A method is for each man (and is most forty that has five hundred thousand of pine is considered heavily timbered and valuable, if well located. As a rule a forty ought to have about one hundred and fifty thousand feet to make it desirable, although where well located and pine of a good quality it will pay to enter where there is only fifty thousand feet to a forty, provided it is near other heavy timbered pine.

A good land looker will, as a rule, run a line about five or six miles in one day, and commands from three to five dollars day and expenses paid, time counting from the time he eaves home until he returns.

A STRONG LUMBERING COMPANY.

We learn that our townsmen, Mayor Ludington and Hon. Daniel Wells, Jr., have incorporated their extensive lumber interest at Menomonee, Mich., and Chicago, Ill., under the name of "The Ludington, Wells and Van Schaick Company, of Michigan," with a paid up capital of \$600,000. This does not include a tract of pine land of 70,000 acres, estimated to contain 600,000,000 feet of standing pine timber, located on the Menomonee river.

Mayor Ludington is president of the company, Hon. Daniel Wells, Jr., vice president, and A. G. Van Schaick secretary and treasurer. The principal office of the company is at Chicago, as heretofore, with Mr. Van Schaick as manager. The business character of ground, and expense of at Menomonee remains in charge of running the logs to market, are Robert Stephenson, superintendent

HOT FACTS FOR LUMBERMEN.

Our Correspondent States Facts and Arguments Worthy of Particular Attention-\$5,000,000 Losses to Michigan Manufacturers Alone-The State of the Trade-Losses on Common Lumber-Forced Sales of 3,000,000 Feet Daily at the Chicago Market-The Remedy for Existing Evils.

Correspondence of the Wisconsin Lumberman.

CHICAGO, July 11, 1874.

No business can be conducted with comfort in this latitude with the mercury above 100° any place outside an ice-house; and the lumber trade least of all others, as actual labor constitutes so large a share of it.

are sure to reach a market in the form been a full supply for the actual reof lumber, as neither drouths nor quirements of trade, and that a larger freshets, panics or prosperity, can sum of money would have been reprevent their onward march to the ceived for that quantity than for the consumer. The log famine of the amount now being rushed upon the past winter has resulted in a full sup- market. When lumber is sawed for trade.

that some of the younger members of lumber-producing section. market at a profit.

ments of business, and but few houses quantity been marketed. claim to have added materially to their assets. There seems, however, looked for in 1875, and probably in large producers of most staple arti- capacity, and unfortunately too much

tion of indebtedness, and a better outlook for the future. What would have been the state of the iron market to-day had an increased amount of ore been forced upon the market? Clearly the result would have been forced sales of iron at a ruinous loss, and a cessation of business until the surplus stock was consumed.

What would have been the condition of the lumber market had each manufacturer reduced his product during the past winter instead of increasing it? No one can doubt that three-fourths the amount being mar-Logs once put afloat in a stream keted the present season would have ply, and the feast of lumber that is forced sale, by cargo, afloat, by parbeing sawed the present year bids ties who cannot protect it, and the fair to sicken some of the participants amount gradually increased, it be--not unto death, I fear, which, in a comes simply a matter of time when business sense, could but result in a a crash will come; and when from great benefit to the general lumber this cause the market is broken down, seldom recovers speedily. This over-Time is the great adjuster of such stock is not confined to any locality, matters, and there is reason to hope but extends throughout the whole existing lumber firms may live to see pressed market at all lumber centres sales of lumber again made in this attests this state of the trade, and I estimate a loss to Michigan manufac-The gradual decline in values since turers alone of \$5,000,000, caused by the financial troubles of 1873, has over-production, this sum being the caused much complaint in all depart- saving made of timber had a smaller

The same state of trade may be a desire to curtail the operations of 1876, as there is too much sawing cles, and the result is a large reduc- wealth, controlling it. There exists

more capital.

is selling at cost or less. The small second to no other. mills will be the last to reduce their the town they have created.

The decrease of supply must commence with large manufacturers. They have large tracts of pine worth preserving, and unless they reduce, no others will, until a loss occurs so marked that it will be headed by all alike.

The state of this market at this time, if carefully studied, must result in a benefit to the trade that supplies it, and it is no different from the principal markets of the whole country. The cargo market here has been overstocked since June 1st, and only the higher grades of lumber actually pay a profit. Sales of Manistee and Ludington dimension lumber are made readily at \$8.75 to \$9.00, but when all charges are footed up nothing remains as profit. Three millions of feet are daily sold at forced sale United States.

at present an idea among saw-mill during the active months of the seaproprietors that small mill owners son, and in most instances without will soon stand aside and surrender profit. The retail business in lumber the business into the hands of those in this market is equally demoralized, who have larger investments and and no branch of trade is more urged than this. Fully two-thirds of the This theory may be safely aban- firms doing a yard trade employ travdoned, or perhaps it would be better eling agents to dispose of their stocks; to place it on file with that other actually forcing lumber upon counfallacy of mill owners, that little if try dealers has created a system of any logging will be done while lumber credit in this department of business

It would seem that lumbermen business, as generally they are not have a partial remedy for the present compelled to observe the same evil of overstock in their own hands, promptness in meeting obligations as they will actually gain by carrying that larger firms must; and when logs into next season, and they cannot kept in operation by parties to not hope to replace those now on whom they owe for supplies, they hand for a lower cost, as the past have the sympathy of all who reside winter was much more favorable than at their place of business, and in an average of seasons. I will venmany cases their suspension destroys ture a prediction that a decrease of receipts at this port of but one-fifth the amount now arriving, will result in an advance of fully \$2 per M. feet per cargo lumber, as the market actually requires the remainder. confess I have no hope of such a course being pursued, but it is the only remedy that can be applied with success, as the slightest advance in price from an increased demand is likely to result in larger receipts.

> When the pine forests of the west are exhausted, I think lumbermen may consider it time to act more in concert, and check the present great evil of over-manufacture.

> Subscribe for the Wisconsin Lum-BERMAN, only \$2.00 a year. The largest publication of its class, in the

THE LUMBER BUSINESS IN NEW YORK.

New York city is the greatest retail lumber market of the country and probably presents a greater diversity of trade and interests than any other market in the world. The white pine from the north, the yellow pine from the south, walnut from the west, the usual variety of hardwoods from different localities, and foreign woods from all portions of the globe, make the lumber business of New York as cosmopolitan as is the heterogeneous population of the great city. The trade, which sustains over one hundred yards and handles hundreds of millions annually, is purely local in its character. The builders and contractors of the city use by far the greater portion of the lumber sold, while the ballance is consumed by the various manufacturing establishments cabinet and wood-work, and by the ship-builders. Yellow pine is very largely dealt in; we should judge to even a greater amount than white pine. Woods which are almost un known at the west as material for lumber may in New York be constandard commodities. sidered Large quantities of spruce and hemlock are handled, and even cypress is coming into considerable favor. Should the white pine forests of the country be suddenly swept away, New York would miss them but little; so entirely are other woods made to take the place of the favorite Comparatively little of the west. common white pine lumber finds its way to New York, that which is used coming mostly from Albany and first

through the dealers in that city. In fact, dealers in New York buy more lumber from the wholesale dealers at Albany than they do direct from the manufacturers. Western lumbermen, as a rule, have long believed that the upper grades of their lumber would some day find its most profitable market at New York and the east. We believe that before transportation becomes low enough to enable very profitable shipments east, the great and growing west will absorb, at larger profits to manufacturers, every clear-stuff board that comes from the pineries of the The west uses, pronorthwest. portionately, much more lumber than the east uses, and the ratio is daily increasing in favor of the west. The great eastern establishments which manufacture sash, doors, mouldings, etc., complain that the western factories of similar kind have so competed in the market as to render their business of little or no profit. Probably the most prosperous lumbermen at the east are those engaged in handling exclusively foreign and hard-woods and veneers. Inactivity in the trade is complained of on all sides, yet the lumber business is more prosperous and active than the majority of businesses in the east. If dealers are making slow sales they are at least making some profit on the time, labor and money invested, which is more than can be said of many branches of trade. Inspection of lumber seems to be governed more by individual caprice than any settled and definite rules of inspection. As before hinted, a lumberman's exchange or board of trade in

be of incalculable benefit to the trade could possibly be put. But improvein those cities, and if so thoroughly ment is the order of the day, and we see would do away with the huckster work of one of the Stearns Circular a number of important ways.

BIG DAY'S WORK BY A CIRCULAR MILL.

The largest day's work by a circular saw mill, of which we have ever to accept their statement without a heard is vouched for by one of the doubt. principal firms at Ionia, Mich. In order to record the matter for future reference we append the following letter describing the achievement.

IONIA, Mich. May 25, 1874. STEARNS M'F'G. Co., ERIE, Pa.

Gentlemen:-We cut at our mill on May 16th, with one circular saw and patent edger, 91,528 feet of lumber in eleven hours and thirty minutes. 75,000 feet of it was inch boards; the balance 11 and 2 in. Nothing All well manufactured. thicker. One man edged it all. We call this a big day's work. Do you know of any better? We used a "Stearns Mill and Edger".

Yours Respectfully, E. COLBY & CO.

This letter from the firm of E. Colby & Co., is certainly a valuable indorsement of the Stearns mills. We can look back only a few years and remember that a sensation was produced from the fact of Hon. W. D. McIndoe's mill on the Wisconsin river having cut 28,000 feet in eleven hours. At that time this exploit was considered wonderful, and was supposed to be about the extent of man-

Philadelphia and New York would ufacture to which a circular mill systematized as that of Chicago, it fully exemplified in this great day's business complained of at the east Saw Mills. When it is considered that and also result in permanent good in of the 91,528 feet sawed, 75,000 feet were inch boards and that the balance was 11 and 2 inch stuff, the record is truly marvellous. Messrs. E. Colby & Co. have a first-class reputation, and we are therefore compelled

CHEAP MINNESOTA LUMBER FOR NEBRASKA.

The Omaha Bee is doing for the consumers of the Missouri valley and the manufacturers of Minneapolis what the Wisconsin Lumberman is doing for consumers in Illinois and Milwaukee dealers and manufacturers. It is trying to bring the railroad managers to a realizing sense of the importance of giving the lumber interests adequate and steady accommodation at reasonable rates. Our exchange says:

The want of cheap lumber has been felt in Omaha and Nebraska ever since the first white man set his foot upon our prairie soil. The want of cheap lumber has, in a great measure, retarded our progress as a city and state, and does even now prevent the inauguration of many public improvements and private enterprises. With cheap lumber we might be able to construct cheap dwelling houses, and cheap dwelling houses would result in a reduction of rents to the working classes. Such a reduction, coupled with our ability to procure the raw material at reasonable figures, would enable many of our small capitalists to undertake the east at exorbitant figures. The opening of the through all rail route to the Minnesota pinery regions promises eventually, if not immediately, to supply Omaha and Nebraska with cheap lumber. Our readers are doubtless aware that the recent railway excursion to that region was mainly improvised for the purpose of acquainting the people of the Missouri valley with the advantages offered by the direct trade with the lumber makers of the Upper Mississippi. The Bee takes pleasure in placing the observations and conclusions of its envoy before the people of the state. They contain much valuable and interesting statical information touching the manufacture of and traffic in lumber.

That Omaha is deeply interested in a direct importation of lumber from the Minnesota pine regions is evident from the fact that Omaha buys and distributes almost double the quantity of lumber annually purchased and distributed by St. Joseph and Kansas City. It now only remains to be seen whether the railroad lines between Omaha and St. Paul will pursue a liberal policy to encourage the building up of this traffic. It is gratifying as it is significant, that an Omaha lumber firm has already taken the initiative step by investing in a heavier bill of lumber than any purchased by the representatives of the other cities in the Missouri valley. It is to be hoped that the experiment will prove remunerative.

In this connection, we may as well also call attention to the superior inducements offered by the extensive manufacturing establishments of Milneapolis & St. Paul, in the quality and price of certain articles of merchandise, heretofore imported by Nebraska merchants, and small manufactures from the far east.

BERMAN, only \$2.00 a year.

THE DECISION IN THE LOG SUIT OF GEO. COOK **VERSUS THE U. S.**

The readers of the Wisconsin Lum-BERMAN will remember that in the May number of this publication there appeared an eloquent argument, by Messrs Smith & Stark, of Milwaukee, in a suit of replevin brought by the United States to dispossess Mr. Geo. Cook, of Green Bay, Wis., of certain legs purchased by him from Indians of the Oneida reservation. The case has been decided in the Supreme Court of the United States, and we are now enabled to give our readers further information on the subject.

The substance of the decision is to the effect that the fee of the Oneida reservation is in the United States, while the Indians have the right of occupancy, that this right of occupancy is unlimited, and to be exercised in the discretion of the Indians. If they desire the lands for the purpose of agriculture, they may clear off the timber to such an extent as may be reasonable under the circumstances. The timber taken off by the Indians in such clearing may be sold by them. But to justify any cutting of the timber, except for use upon the premises, as timber or its product, it must be done in good faith for the improvement of the land. The improvement must be the principal thing, and the cutting of the timber the incident only.

Any cutting beyond this would be waste and also unauthorized. The timber can rightfully severed for the purpose of improving the land, or Subscribe for the Wisconsin Lum- the better adapting it to convenient occupation, but for no other purpose.

When rightfully severed, it is no lon- PATENTS AND IMPROVEMENTS IN THE LUMBER ger part of the land, and there is no restriction upon its sale. Its severance under such circumstances is in effect only a legitimate use of the land.

If the timber should be severed for the purpose of sale alone: in other words, if the cutting of the timber was the principal thing, and not the incident, then the cutting would be wrongful, and the timber. when out, become the absolute property of the United States.

The presumption is against the authority of the Indians to cut and sell the timber. The purchaser, to maintain his title under a purchase from the Indians, must show that the timber was rightfully severed from the land. If he does not show that, the United States may seize or replevy it, or bring an action for its value.

A NEW CIRCULAR SAW MILL.

Practical mill men cannot fail to be interested in the description presented elsewhere of a new iron frame, double circular saw mill.

The first mill of this kind has just been completed by the Reliance Works, Milwaukee, under the incessant supervision of Mr. G. M. Hinkley its inventor. Mr. Hinkley is an inventor of genius and reputation, and the quality of work invariably turned out by the Reliance Works of Messrs E. P. Allis & Co. has gained that establishment the confidence of mill men in all quarters. Our sketch of this latest contribution of science to the requirements of manufacturers of lumber will be found on page 369 of this issue of the Wisconsin Lumberman.

For the week ending May 26th:

For Band Sawing Machine to Edward F. Gordon, Concord, N. H. The shafts which carry the saw-pulleys are sustained by and made adjustable upon curved saddles.

For Miter-Box to Horace C. Hough, Oshkosh, Wis Adjustable and reversible stops are used, with guides adjustable to any angle for the saw, and for inside and outside measurement.

For Water-Wheel to Edward B. Lyon and William P. Lyon, Franklinton, N. C. The wheel is made star-pointed, so as to run equally well in either direction, and is supplied with water through either of two trunks which lead to opposite sides of the wheel. It is designed especially for operating presses.

For Mechanism for Loading and Unloading Lumber to Hans P. Tothammer and Gustav Osborne, San Francisco, Cal. A series of rollers, several of which are toothed and rotated, mounted upon a supportingframe which may be adjusted at any desired height. The timber, being laid upon the end roller, is caught by its teeth and pushed to the next, and so throughout the series.

For Mortising-Machine to August Borneman, Lancaster, Ohio. Length of mortise is regulated by the stops and lugs on the carriage.

For Governor for Water-Wheels to Hervy D. Snow, Cohoes, N. Y. The float in the flume causes the pawl mechanism to close the gate when the water runs low. A cam, operated by the gate-shaft, throws the pawls out of gear, when the gate is fully closed or opened, to prevent breaking.

For Frame and Guide for Muley-Saws to Alfred D. Clark, Hillsborough, Ohio. The frames and guides are provided with means of adjustment in various directions, accesible at all times to the operator.

WISCONSIN'S NEW LANDS

Description of the Timber and Farming Lands Opened to Settlers By the Wisconsin Central Railway-The Crop of Towns Springing up in the Wilderness-Information of Value to Immigrants and Capitalists.

Correspondence Wisconsin Lumberman.

GREEN BAY, WIS., June 20, 1874.

The Wisconsin Central railway is one of the grand enterprises of northern Wisconsin, which is destined to exercise a controling influence in developing the resources of this portion of our state. With the Milwaukee & Northern railroad, (which it leased last fall), it has now two hundred and forty-eight miles of continuous line, from Milwaukee via Menasha and Stevens Point, to Malden, a point one hundred and one miles north of Stevens Point. There yet remains a link of fifty-five miles to complete the road to Bayfield on Lake Superior.

Of the 101 miles north of Stevens Point I propose to speak. I have recently passed over the road and made personal examination of the country, and notes on the character of the timber and lands that may be interesting and serviceable to those seeking homes or investments for capital in pine and farming lands.

Eleven miles from Stevens Point is JUNCTION CITY.

where the Wisconsin Valley railroad crosses it. Knowlton, eleven miles beyond, toward Wausau is the present terminus of the Wisconsin Valley railroad, it being 73 miles from It has no depot building, except a "Junction City."

Four miles from this place is MILL CREEK,

containing a depot only. The country about here is flat, with moderate growth of pine and hardwood. Nothing very desirable.

Nine miles further on is

AUBURNDALE.

A block house for depot. other building in view. The face of the surrounding country is flat; the timber red oak, basswood, elm, butternut, and pine, of fair quality, not so large as it is further up the road, but sound. Red oak of excellent quality; butternut, large and thrifty; soil good. The depot is located on section 22, township 25, range 4 east. Mill Creek is south of this station and bears some excellent. pine.

Eight miles from here is MARSHFIELD,

containing depot, log hotel, and store. The country about is more . rolling; timber red oak, basswood, butternut, elm, and pine, chiefly, and of the best quality. For farm lands, this locality excels any on the line; soil rich and deep. The surrounding lands contain many settlers. The Fox River Company have many sections of land here, which they hold at prices ranging from \$8 to \$25 per acre according to location, timber, etc. The pine lands they offer at \$3 per M, stumpage.

Eight miles from Marshfield is WALTHAM.

Tomah, where said road starts. log shanty. A mile beyond is a neat A depot, engine house and two or new two story building, intended for three small dwellings constitute dwelling and hotel, no doubt, when fully completed. Country flat, with

The timber is substantially the same of Colby, running on birch timber. as at Marshfield, and of equally good quality, being excellent and the soil ditto. This place is known as station 40, being 40 miles from Stevens Point, and is in the northwestern corner of township 26, range 3 east. For good pine, butternut, red oak, and basswood, this locality excels.

Six miles from this point is

It contains 8 or 10 dwellings, a store, Dr. Wells' office, the Unity House, by C. Duval, Spaulding & Co's mill, which is located on the Eau-Plain river. The railway company are engaged clearing off forty acres, on which to lay out a town plat. soil is good, tinber about of the same character as that at Waltham. Farming lands desirable. Many settlers in the woods around here. Abundance of pine.

Five miles beyond Unity is

COLBY,

containing thirty-five buildings, mostly in an unfinished state; four stores, on one the sign "Booth & Barry, Milwaukee Store," was conspicuous, a good sized hotel nearly completed and ready for guests. Lekey Graves, of Fond du Lac, has a saw mill one mile south of this There is a small shingle place. factory here also, doing apparently good work. Pine, basswood, elm, birch and maple are the prevailing kinds of timber, but they are not so thrifty as timber below. The soil is not quite so good, still this is fair farming land, and a fair pine region.

Mr. Thomas has a clothes pin

long rolls, not unlike prairie lands. factory three-fourths of a mile west

Sixteen miles from Colby is

MEDFORD.

being 67 miles from Stevens Point. Semple & McDonald (Dan McDonald) have a large saw mill here on Black river, nearly ready for business. There are two hotels, large depot, a store, and a dozen or so large dwellings. There are many settlers in the surrounding country. The soil is not so good as below, but still it is fair. Considerable hemlock is found here, and I judge a thriving business is carried on at this place in the bark trade.

Beyond Medford to the end of the railway, in township 36, rang 1 east, the farming land is no better, although the pine is in some localities much larger and finer. Township 34 has perhaps the largest quantity of what lumbermen call "uppers" of any township on the line. It is very large, trees three and four feet through, and ranging in prices all the way from one dollar to two dollars per M, stumpage. One or two mills are going to be put in here in townships 33 and 34 this season.

Government lands are lying open yet to be entered as homsteads. Many persons are locating there. The woods, as one man said, are full of "homesteaders."

A grand heritage surely, which by means of this railway, is being rapidly settled up and developed.

This paper is too long already and the half is not told.

I will close with a pretty accurate list of the milling establishment which have been located, some of them built, some now in process of construction, and the rest of them expect to build this season on or near the Wisconsin Central railroad:

Kingsbury,on	Sec.	22,	T.	25,	R.	4 E.
McMullenon	"	17,	"	26,	"	3 "
Buckstaff & Coon	**	35.		26.	"	2 "
A Chicago manon		-:	**	26.	"	2 "
Spauldingon	**	1,	"	27,		1"
Lekey Graveson		24,	46	28,	"	1 "
Sandsen		13,		29,	"	1 "
Semple & McDonaldon		27.	46	31,	"	1 "
Theo. Coburnon	**	2,	"	32,	"	1"

The above facts I obtained from A. D. Lunt, the competent land examiner of the railway company. He is not only very obliging but is very intelligent on all matters pertaining to lands in northern Wisconsin.

W. P. LINDSLEY.

WAUSAU-ON-THE-WISCONSIN.

Marathon County and its Magnificent Resources-Its Flourishing Capital-Its Vast Lumber Interests-Prospects for the Valley of the Upper Wisconsin.

Correspondence of the Oshkosh Times.

Although forty miles of shifting sands and dreary pine forests stretch out between here and the great world below, yet this infant city away up here in the wilderness hums along with all the energy and bustle of a metropolis.

On the banks of a great river, with natural powers in abundance to satisfy the needs of thousands of water wheels; skirted on the east for three miles by great pine tracts, containing some of the best timber to be found in the state, beyond which are magnificent farming lands now rapidly being settled up by an army of frugal immigrants by the way of Shawano, twenty-five miles to the east; across the Wisconsin river, great fertile, hard wood forests stretch away to the northwest, over Marathan and into Barron and Douglas Winona.

some hidden nook 200 miles above, Upper Wiscons', and one in which

counties.

in the unknown wilderness, is amply reinforced by broad rivers and creeks, that give to Marathon and Lincoln counties a perfect net-work of natural irrigators and deep log-driving streams. A wonderful fountain of wealth is this great thoroughfare; unnavigable, to be sure, save in short stages, above Portage City, perhaps the Wisconsin is all the more valuable: all the more subservient to the wealth of man; for over a hundred miles, some of the finest natural water powers in the world follow each other in quick succession, while the fierce rapids, improved by human ingenuity, are now but slight barriers to the annual log drivers; and with due precaution, even lumber cribs are with but few exceptions safely piloted over the "Bulls."

At the foot of Big Bull Falls, situated on a bend of the river, 20 miles north of Marathon county's southern line, is the seat of that county, and until the latter's organization is completed in October next, of its recent offspring, Lincoln. The only town on the Wisconsin, of any note, above Stevens Point, Wausau has almost a monopoly of first-hand pickings in that rich but partially developed region. Its saw mills are kept busy night and day in transforming the raw material, cut almost within corporation limits, into the best quality of pine lumber; together too, with a large quantity of hard wood timber, for which, however, there does not at present seem so great a demand. Packed in "cribs," of which six form a raft, they are this season of low water drifted down stream and moored in fleets, ready for the "June fresh" to elevate the water line and carry them safely over the rocks and shoals, down the Wiscons' to the great Mississippi below, where a ready sale is always met at the great lumber marts of Dubuque and

The log drive is an extensive fea-"The old Wiscons'," springing from ture of lumbering operations on the ly interested, for it furnishes ample and Yankee go-ahead-activeness will for the greater part of the year. The ness into a blooming garden. principal boom above Grand Rapids logs are sorted and rafted for markets want to bridge over that terrible pasbelow that place. But the rivermen, Wausau extraction, and Wausau ests about us.

but seldom-seen village fifteen miles the iron horse into Wausau by the up the river, and the very outpost of commencement of the logging season. Wisconsin pioneerdom, is owned al- But it has stopped at Knowlton, only most body and soul by Wausau capi- now half way, and further progress tal. Its stores, its solitary mill and will not be undertaken this year, for lumber camps are creations of Wau- want of cash. sau men; a sort of suburb as it were. hopes of getting eastern aid or selling like Wausau, purely a lumber town; and it is whispered very confidentialit owes its chief notoriety from the ly that another call for \$25,000 more of Lincoln.

Marathon county is just upon the hard and soft timber forests in endless profusion, fine streams admirably adapted to manufacturing of every description; a magnificent farming country to the northeast now being rapidly opened up under the homevast mineral deposits in the eastern section, contiguous to Shawano county, and the undoubted existence of an iron ridge to the west of Wausau in Rib Mountain, and last but not least a hard-fisted, clear-headed, industrious and frugal people, who, having built for themselves homes in the wilderness, are now seeking to advance the great interests of the place This that has given them bread. country is yet young; its pioneers are in the very prime of life, in full posgies; and we nearly all will witness the & Kickbush. J. C. Coon is erecting

many capitalists and people are large- day when their spirit of enterprise development for money and muscle have transposed a howling wilder-

Ho! for the railroad! is the great is at Stevens Point and thither all the cry of Wausau and Wausauites. They sage of the forty miles of sand that raftsmen and pilots are chiefly of intervene between it and the "Point" below; and their hopes are, we trust, capital wields no light oar in the to be speedily met. The Wisconsin mammoth operations which are each Valley railway company, to be sure, winter carried on in these great for- in consideration of \$35,000 in cash 200,000 acres of Marathon and And Jenny, too, the much-talked-of county lands, had promised to drive The company has A village of 600 inhabitants, it is, some of its lands before next season, double fact that it is the limit of not from Marathon county, will soon be only civilization, but almost of lum- made. It is highly improbable that bering, on the Wisconsin, and is to so extortionate a "grab" could be carbe the seat of the new-fledged county ried through. However, perhaps it is only a canard.

The Valley railway will open up dawn of a glorious future. With new channels of wealth to Wausau, in fact, speedily transform it into a rich commercial centre. The lumbermen, by the quicker and surer transit thus afforded, can take advantage of the markets and sell their wares in proper season, while the yeomanry, who will stead act; with every indication of follow in its wake will never need to depend on a limited home consumption, but be able to export to less fer-

tile sections.

A glimpse at Wausau and its present industries and other outward evidences of wealth, will not prove uninteresting. Of lumber mills, there are six; two run by steam and four by water power; these are owned by J. & A. Stewart, B. G. Plummer, J. C. Clark, M. McIntosh, and two shingle mills by H. Daniels. A planing mill and sash and door factory of session of their finely-developed ener- good proportions is run by Werheim

there is every encouragement, as feet, 15,000 feet being required to hemlock grows in thick forests just lay a mile of track. It is estimated above the town. Three breweries that the maple rail will last over one furnish beer to whet the thirst of year without repairs, hence the in-Wausauites; its population being Teutonic in a large degree. Two brickyards near the city, are in full blast and turn out a good article for building purposes. A water power grist mill by Alderson & Silverthorn is kept busy at custom work throughout the year. New buildings are going up in all parts of the corporation; most of them private dwellings, of wooden rail will be extensively used quite a superior character to those usually seen in frontier towns. We were informed yesterday that 130 new buildings were erected last year, 150 will probably be built this season. Aug. Kickbush has in contemplation the erection of a large brick store on Main street. A Beaver Dam man is also to build a large hardware store on Washington street next month. Pratt, of Stevens Point, is building a large wooden two-story building on Third street, for general store purposes. A number of small shops are going up in various quarters of the town, while to cap the climax, a substantial brick school house costing \$18,000 is approaching completion, on Jefferson street, and will prove an ornament and credit to Wausau.

A WOODEN RAILWAY IN WISCONSIN.

We leran that contractors are driving workon the Tomah & Chicago narrow gauge railroad from Wauzeka to Reedstown, and it is expected that trains will be running over that portion of the road by the middle of The rails used are September. maple, which are sawed out 31x5 These are let into the inches. ties and fastened at the ends with dowel pins, the gains in the ties being made a trifle larger than will admit the rails, and on either side of the rail are driven wedges in opposite directions. The maple rails are

a large tannery, for which industry obtained at a cost of \$15 per 1,000 terest on capital invested in iron rails would re-lay a track every Last fall, on the twelve months. Elkader road in Iowa, a portion of the track was laid with maple rail, and an examination made of them this spring shows that they have not been injured in the least by constant use. There is no doubt that the in sections of country where heavy capitalists do not wish to invest their money to the extent of putting down

JOHN S. LOOMIS' SAND-PAPERING MACHINE.

The Brooklyn (New York) Moulding and Planing Mill, belonging to Mr. John S. Loomis, is one of the most extensive establishments of its kind in the United States. In the line of mouldings, especially, a reputation has been built up by this factory which causes its products to be particularly sought for by the more thoroughly informed builders of the middle and eastern states. This desirable reputation has been secured principally by the use of a machine which thoroughly smooths and perfects every piece of moulding manufactured. The machine is called "Loomis' Sand-Papering Machine" and is the invention of John S. Loomis, Esq. Letters patent were granted on the 26th of May, 1868, and improvements thereon, August 29, 1871. So many points of merit and value are observable in the machine that mention of them will interest the readers of the Wis-The machine CONSIN LUMBERMEN.

will thoroughly and perfectly sandpaper thirty thousand feet per hour of any style or form of mouldings. The corners of the mouldings are left remarkably clear and sharpmore so even than when sand-papered by hand. The surface of the moulding is left much smoother than ordinary hand work and is preferred by painters. One machine will sandpaper for at least four moulding machines and will not use over ten cents worth of sand-paper per day. boy can use the machine as well as a man-saving skilled or expensive labor. Of so great value is the machine that until the present time Mr. Loomis has never consented-although often asked-to allow his patent to be constructed for general use: preferring to have the exclusive use and control of his valuable in-So great has been the vention. desire of parties interested in woodworking to secure machines, that Mr. Loomis has concluded that he will soon allow them to be placed upon the market. So rapid and perfect is the work accomplished by these machines that Mr. Loomis really owes it to the trade that they should come into general use; and we are glad to chronicle the fact that he intends placing them within the reach of the moulding and woodworking mills. The mill belonging to Mr. Loomis employs one hunchine will soon appear in the Wis- preserving process. description of it.

BURNETTIZING.

The process of "burnettizing" timber and lumber has as yet been little introduced in the west, or indeed but little understood or appreciated.

When we consider the enormous consumption of lumber, with its great variety of uses and frequent exposure to the destructive action of moisture, heat, and imperfect ventilation, the importance of some process to preserve it from decay can hardly be estimated. The value of such a process is not simply in the cost of the material preserved, great as that may be. Its greatest economy consists in saving the expense of reconstruction, as well as the inconvenience and delay of frequent repairs. In bridges, railroad tracks, ships' timbers and spars, sills of houses, &c., the cost of replacing is much greater than the first cost of the lumber. It should be borne in mind, however, that many of the cheaper kinds of lumber, when burnettized, are more durable and much cheaper than the more expensive woods, unprepared.

In the case of bridges, another consideration deserves metion. Of the many terrible disasters occassioned by the giving way of these structures, under a loaded train of cars, most have risen from the gradudred hands constantly and does an al and unnoticed decay of the timannual business of \$250,000. Illus- bers, which might have been pretrations of the sand-papering ma- vented by subjecting them to the As burnettized CONSIN LUMBERMAN, when we shall stuff is also comparatively uninflamaexpect to give a full and accurate ble, another danger to which railroad bridges are exposed, that of the engine, is greatly lessened. This process requires several weeks for its last property entitles the process to completion. From the corrosive a careful consideration of its utility action of this substance upon most in ships and steamboats, where por- metals, it cannot be used in close tions of the timbers are extremely iron vessels, the advantages of exliable to take fire by the continued haustion and pressure are thus lost, action of an elevated temperature from the heated machinery, boilers, and from other causes. The trifling expense of preparing the timber is of little account, when the question is one of even partially diminishing the liability to the terrible consequences incident to the burning of a ship at sea.

from the attacks of insets, which, in certain localities, are as destructive of the strength and durability of effectual, and has the advantage of timber as the most rapid process of being safe, cleanly, and economical,

decay.

The object of this and other pro- purifier. cesses is the preservation of wood, Burnettizing was introduced in cordage, canvas, etc., etc., from wet this country by James B. Francis, and dry rot and mildew. The im- Esq., agent of the proprietors of the portance attached to this, and the locks and canals on Merrimac river, extent to which investigation and ex- at Lowell, Massachusetts. This comperiment have been carried, is shown pany, the original proprietors of all by the fact that no less than Lorty- the water power used by the extenseven patents have been secured for sive manufacturing companies of that processes to secure this result, most city, have many uses for lumber of them within the past century. Of in exposed situations, as in bridges, these, besides Burnett's, the most locks,dams, sluices, etc. Mr. Francis, generally known and used, are prob- their agent, a distinguished civil encoal-tar process.

though attended with good results, visited some of the largest estabishis open to serious objections. Cor- ments abroad. rosive sublimate, or bichloride of utility of the Burnett process, at his mercury, the substance employed is suggestion, and under his direction, very expensive, which is a sufficient the works at Lowell were erected. objection to its general use. It is, These works were put up solely for

taking fire by means of sparks from moreover, a virulent poison, and the by which alone can timber be thoroughly impregnated and the process finished in a few hours.

In 1838, a patent was granted in England to Sir Wm. Burnett, for the use of chloride of zinc in the preservation of certain animal and vegetable substances from decay. This process has been extensively used in Burnettizing also protects wood England, and more extensively in this country than any other. The chloride of zinc has proved to be while at the same time it acts as a

ably Kyanizing, and the creosote or gineer, thoroughly examined the various processes for preserving timber, Kyan's process, patented in 1832, and in the course of his investigations Satisfied of the other parties.

preserves wood from wet and dry actness and finish.

E. ANDREWS' SAW WORKS, WILLIAMSPORT, PA-

seems as if nothing further could be desired. All the different saw factories have their customers who prefer the saws that they have tried to their satisfaction, and are loth to believe that any other than their favorite brand is of equal value. We find, for instance, that in the great lumber manufacturing centres of the Susquehanna, the saws manufactured at Williamsport, Pa., by E. Andrews, are especial favorites, and that for perfection of finish manufacturers of lumber speak of them with unusual praise. Indeed, as these saws become known by use in other localities, their merits are speedily recognized and their popularity is assured. issue of the Wisconsin Lumberman. Mr. Andrews is a man eminently practical both in his labors and his views; therefore he has built up at MAN-only \$2.00 a year.

the use of the manufacturing com- Williamsport a saw manufacturing panies; but finding they had suffici- establishment in which nearly all the ent capacity, large quantities of lum- machinery used is that of his own inber have been prepared there for vention, and is calculated to assist in every particular whereby the saws The points of advantage gained by may be made absolutely perfect in all burnettizing timber and lumber may respects. It would be impossible to be briefly stated. It hardens and give, in so brief an article as this, an improves its texture. It preserves it adequate idea, by description, of the from the adherence of animal or various ingenious devices patented vegetable parasites and also from by Mr. Andrews that tend to make the attacks of insects. It completely the saws from his shop marvels of ex-Nor have we rot and renders it less inflammable. It space to even enumerate the many is free from any odor, and is cheap. valuable machines which Mr. Andrews' inventive genius has created and which are invaluable to all manufactures of lumber. We can only The art of manufacturing circular, advise our readers to send for circugang and mulay saws for lumber lars that will fully explain and demills, has reached, in this country, scribe the machines built by Mr. Ansuch absolute perfection that in qual- drews. One of the recent novelties ity of material, shape and finish, it in the saw line is a circular constructed on an entirely new principle, and is one which will soon be brought to the attention of lumbermen. At present we cannot give a description of the new saw for the reason that it is not yet to be placed on the market. When Mr. Andrews is ready to make public the peculiarities of his new invention, the WISCONSIN LUMBERMAN will give its readers the benefit of an illustration and full description of the saw. We mention, however, that the saw is so constructed that the strain of the saw is relieved twice during each revolution by the saw itself. Mr. Andrews' advertisement will be found in this

Subscribe for the WISCONSIN LUMBER-



NEW IRON FRAME DOUBLE CIRCULAR SAW-MILL.

A description of Interest to Practical Mill Men — A Fine Product of the Reliance Works of E. P. Allis & Co.

We present above an illustration of a new Iron Frame Double Circular Saw Mill recently placed before the public by Messrs. E. P. Allis & Co., of the Reliance Works, in this city, with detailed description for the benefit of our readers.

tight side of main belt, working on a is a tightener-frame and pulley

30-inch pulley. The pinion shaft is driven by a 30-inch friction pulley, with 12-inch face and solid web center, turned all over, and is worked between the feed and gig paper frictions-which are 12 in. diameter and 13 in. face-by means of an eccentric box, operated through levers by the sawyer. These paper friction pulleys are so arranged as to be raised or lowered with ease, as may be This mill has iron saw frame, 10 necessary to secure perfect adjustinches deep, and heavily flanged top ment. The arbors are of steel, the and bottom. The feed is belted from lower one being 4 in. diameter and tail of arbor and gig, driven by the the upper one 21 in. diameter. There improved self-oiling boxes. pulleys complete, without saws, deserves. weighs ten thousand pounds.

two head-blocks; but by means of our Hinkley, well known as one of the new rigid coupling can be put to- best saw-mill men in the country, length desired, and with any num- tant and popular machines used in ber of head-blocks. The set works the lumber business; and is fitted jack-heads are worked by cast steel guide, which meets with great favor rack and pinion, so made as to take among saw-mill men. up any lost motion should the steel wear; or they can be replaced at any THE LUMBER TRADE OF ST. PAUL, MINNESOTA. time at a slight expense. The jackheads and head-blocks are faced with steel plate, which can also be renewed at a slight expense. The set-shaft is 3 in. diameter, as are all the shafts in the mill. On the setshaft there is a steel ratchet 18 in. diameter. The index wheel is geared to set-shaft with fine, cut wrought iron gears, and as the jackheads turns towards the setter, showing on its figured face the exact distance of jackheads from saw at any point.

hinged to saw-frame, for tightening but board and plank may be measurbelt to upper arbor. The lower ed on quadrant by means of pins. arbor has three 12 in. bearings, with The jack-heads are run back, ready to The receive the next log, while the carupper works are of a new and im- riage is gigging, by means of friction proved style, and we think superior gearing to truck shaft, and operated to any other in use. A heavy arched by the setter placing his foot on a iron frame is bolted firmly to saw- lever for that purpose. The dogs frame. The arbor works in a hollow are automatic in their movement, arched sleeve, having three 8 in. and worked with a lever, no mallet bearings, with pulleys between the being required on the carriage. standards. The sleeve, with arbor, There are two sets of dogs-one for is adjustable by screws in every di- flat and the other for round logs. rection, so as to be put and kept in The mill is designed for doing the perfect line with lower saw. This most rapid and accurate work, and saw-frame, with upper-works and we hope will meet with the favor it

This mill has been got up under The carriage is 24 feet long, with the careful supervision of Mr. G. M. gether in sections and made any and the inventor of several imporare the most perfect now in use. The with his newly invented patent saw-

the state of the s	
RECEIVED.	
1873.	1872.
Lumber, feet40,381,805	22,445,233
Lath, pieces 7,838,000	4,779,000
Shingles, pieces12,603,000	7,409,000
SHIPPED.	
1878.	1872.
Lumber, feet	10,302,295
Lath, pieces 583,000	778,100
Shingles, pieces 1,265,000	1,881,800
TOTAL RECEIPTS AND SHIPMENTS	
1873.	1872.
Lumber, feet	32,747,528
Lath, pieces 8,421,000	5,557,100
Shingles, pieces	9,290,800

Though very little lumber is manmove toward the saw the index wheel ufactured within the city limits, yet the lumber business absorbs nearly half a million of the capital of our citizens. The above table will give some idea of its magnitude and This may be used for setting timber, growth. The concentration of railroads at this point is fast making St. Paul the lumber centre of Minne-Though the mills may be scattered over the state, yet so rapidly is this becoming the great lumber mart for the jobbing of lumber, that nearly all mill owners find it incumbent upon them to maintain a yard or an office in this city.-Seventh Annual Report of the St. Paul Chamber of Commerce.

THE WILLIAMSPORT CLOTHES PIN.

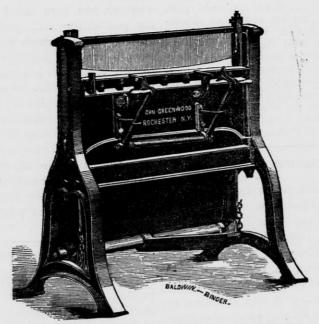
The Williamsport clothes pin is an elaborate illustration of what man's ingenuity can accomplish. The pin, which is eminently a safety pin, is the invention of E. Andrews, Esq., of Williamsport, Pa., and possesses such peculiar and unusual points of interest that when it was examined by the honorable and practical commissioner of patents, that gentleman declared that never before had he been able to see so quickly the salient principle involved in the construction of a new invention. The pin is a sure prevention of clothes stealing. and hereafter we may allow our linen to dry and whiten in the pale moonlight and be assured of its safety. Not long since a Lock Haven larcenist who happened to be in Williamsport over night, attempted to appropriate a few open-backed shirts which were (as he thought) injudiciously left out in the night air, and was so suddenly checked in his larcenic endeavors by the safety pin, that for the first time in his life, he appreciated the enormity of his crimes. So the inventor of the pin and gave him Wisconsin Lumberman Publishing Co.,

Andrews, you have saved me from the penitentiary and perhaps the govenorship of Pennsylvania." There is not a man of prominence in the eastern cities but has taken some stock in this new invention. When manufactured, the pins will sell as no other invention of the times has sold We are the sole Wisconsin agents for this invention, and when our lumberman friends are in Milwaukee we invite them to call and examine at the office of the Wisconsin Lumber-MAN, the meritorious points of the safety pin.

A NOTEWORTHY PREDICTION-

The great lumberman, Hon. Isaac Staples, of Stillwater, was "bearing the market" a little during the visit of the excursionists from Missouri and Kansas. He told them, if the Omaha Herald may be credited, that the first-class logs will be cut in ten years, and twenty-five years will take all; that although his firm owned 160,000 acres of pine lands, mills and every appurtenance, he was not making a dollar. The business only paid 7 per cent. last year, to say nothing of interest, when he could have loaned his capital for twelve per cent; and that the lumbermen were losing one dollar on every thousand feet they sell. But he predicted a marked advance in prices within two years. It is proper to say that other lumbermen substantiated the views of Mr. Staples .- St. Paul (Minn.) Pioneer.

Examine the "Lumbermen's Regmoved and humiliated was the man ister" at the end of this volume and that the very next morning he visited report additions or corrections to the \$150. bill, with the remark, "Mr. 64 Oneida street, Milwaukee, Wis.



STAVE JOINTER.

INFLUENCE OF PINE FORESTS ON HEALTH.

This machine is designed for jointing cut staves, the knife being curved to suit the bilge of the stave. The knife is raised by two double spiral wire springs, one at each end of the machine; the springs are made double, and of the best spring brass wire. They are far superior to the eliptic spring, being much more lively in operation, less cumbersome, and more durable. There is a stave jointer resembling this in appearance, but with a stationery knife, the table and stave raising to the knife, and falling back by its own weight. The price of this machine, with the spring is \$75, without the spring \$70, while a spring machine for $\frac{1}{2}$ bbl staves and nail kegs is \$65.

Mr. O. L. Packard, 105 West Water Street, is agent for this machine, and other wood-working machinery.

Dr. Wilson, Medical Director of the United States Navy, contributes to the last number of the Sanitarian a very able and interesting article on "Drainage for Health," in the course of which he advances a new theory in regard to the proverbial healthfulnees of the "pine districts." Discarding the generally accepted impression that their salubrity is due to the turpentine, or to the thick carpeting of pine leaves or "shucks," he argues that the credit is to be given to the roots of the pine-trees and the peculiar manner of their decay. As the trees of a pine forest get too thick to thrive, the large and more vigorous crowd out the weaker. The latter die, and the long tap-root which penetrates the surface, and beneath the hard-pan of subsoil, forms a sink or drain through which the superabundant waters find a ready outlet. As the pine tree is a rapid grower, the writer suggests that "it thus appears easy to make a healthy place for a village almost anywhere, as we have only to scatter a few pine-cones on any suitable piece of land, and wait for three or four years. The Naval Hospital at Norfolk, Va., is separated from very malarious fields by a pine grove about three hundred feet wide, and this is found to be amply sufficient." Assuming this theory to be correctit certainly bears the impress of common sense-we have not only the key to the healthfulness of the "pines" in New Jersey and other sections, but a valuable suggestion which is well worthy a practical test, and far more likely to prove a sucthe fever-preventing than eucalvptus, which for some time past has been engaging so much of public attention.

PENSACOLA LUMBER AND TIMBER EXCHANGE.

At a meeting of the above association, held on the 10th inst., seven members were present, the president, B. Chand-

ler, Esq., occupying the chair.

The treasurer presented his report, which was received and placed on file. It was voted that a collector be employed by the treasurer, to collect the dues from members. Some remarks were made relative to the quarantine regulations now in force, to the detriment of commerce, but no action was taken.

A committee consisting of Messrs. Geo. W. Robinson, Thos. C. Watson and F. R. Goulding were appointed to draft resolutions expressive of approval of the National Lumberman's Convention at Williamsport, Pa., on the 23rd inst., and it is agreed that Mr. R. M. Bushnell, Sable, Conn., (of the the firm of Simpson & Co, Bagdad, Fla.,) be asked to represent us at that conventson, if convenient.

A committee, consisting of Messrs. J. B. Johnson, Geo. Marquiss and Cone of the Pensacola Lumber Co., were appointed to investigate the subject of classification and inspection of round logs and report at the next meeting.

The secretary gave notice that the election of officers would take place on 1st of July. The association then adjourned till that date.—Florida Express.

Subscribe for the LUMBERMAN.

RICE LAKE, THE NEW SEAT OF BARRON COUNTY-

One of the Numerous Municipal Progeny of Knapp, Stout & Co.—The R ush of Immigration To This Point—Prominent Pioneers.

Correspondence of the Eau Claire Free Press.

Rice Lake is located at the outlet of the lake, whose name it bears, and has been built up by Knapp, Stout & Co., until recently, when it has been declared the county seat of Barron county, and lots are being sold to all parties desiring to build. The company have a small saw mill here, built four years ago, to supply lumber to settlers, but it is now too small and must soon be turned around and its capacity doubled.

On the opposite bank of the river, the company are getting together materials for the erection this summer, of a grist mill, with five runs of stone. The water power here is perfectly immense, when we consider the vastness of the water controlled by them in the lakes above.

They have a well built and well furnished hotel here, in charge of mine host, Ryder, who knows how to make strangers at home, and furnish rest for the weary. Eau Claire cannot boast a better landlord, nor a better kept house, and if there are in town any weary ones, who would like a week's rest, we would commend to them a trip to Rice Lake, and a sojourn with Ryder.

The store is on Knapp, Stout & Co's. usual plan; everything that anybody wants, from a pinch of snuff to a breaking plow, and to my surprise at figures that only cover the freight in advance of Menomonie prices. It is, I believe, the only general store in the county, and does an This is in charge of immense business. Mr. Ed. C. Coleman, a genial, Christian gentleman, who stands boldly an advocate of his religion, and an example of its power. He is also county treasurer. We also met Mr. Staples, the book-keeper, and Mr. Johnson, the clerk; very gentlemanly and hardworking fellows. In one corner of the store, Dr. Whitney, a graduate of Michigan University Medical School, has a dispensary, and deals out the elixir of life to the ailing. We understand that he has a large and successful practice.

In looking around the company's grounds one is struck with the perfect order and neatness of everything, which can only be accounted for by the almost omnipresent Heller, who acts as street and police commissioner for the city.

We also met Mr. Carpenter, of the Barron county paper, soon to be issued, Mr. Abbott being now in Milwaukee to procure press and stock for printing office. It is thought the venture will be a fine success, from the encouragement

already given.

Many new houses are to be built here this summer, and the people are sanguine that it will soon equal in size, if not excel Menomonie, and they have good reasons for thinking so. The fertile soil on which it is being built, the vast area of extra farming lands by which it is surrounded for many miles, the beautiful lake that furnishes both water power and pleasure from its unusually excellent fishing, and which cannot be excelled for rowing and skulling, the vast pineries above, everything, indeed, that nature can do, has been done to make this attractive to man, and now he is utilizing it.

Many will say, away off in the woods. Yes, but as fine a wagon road as Wisconsin boasts makes it easy of access, while the grand natural scenery makes the pinery itself desirable. Why travel east, or west, or north, when within sixty miles of Eau Claire we have such a retreat?

Just above here are Long and Red Cedar lakes, noted for their fish. We tried it in the latter, and can say it is all that has been claimed for it, besides being the most beautiful lake we have yet seen in the west. It is as beautiful as either the Cayuga or Seneca, of New York.

Near the shores of the Red Cedar men have taken homesteads, and propose to improve them. We were over some of them, and can say truly, not easily equalled and never excelled in fertility

and convenient surface.

We found N. G. Stafford and sons at work cutting a road from the main road at Red Cedar to the Pekayaman, a distance of three miles. Mr. Stafford was

also building a house.

The rush for homesteads in Barron county now, is equal to the gold fever, probably over 2,000 persons will move into the county this year, and still there is room. While riding over this vast fertile track, much yet unimproved, it occurred to me that Horace Greeley must have just returned from a trip through an unoccupied country when he wrote his advice to young men, to "go west."

There are now 34 schools in the county, and at all the prominent points preaching, by the Mathodists, Lutherans

and Roman Catholics.

We could not hear that liquors of any kind are being sold in the county. Nor did we see a man intoxicated on our whole trip.

MILWAUKEE MACHINERY IN JAPAN. 3

Late News from that Empire—Civil War Eminent—Extracts from a Letter to Edward P. Allis & Co.

It is well known that our fellow-citizens, Messrs. Edward P. Alils & Co., of the Reliance Works, sent out to Japan, about eighteen months ago, on an order from the Mikado, through his minister here, a complete portable grist mill, with elevators and bolt chest complete. This mill was put up in a building erected for the purpose of exhibiting to the Japanese a great variety of improved machinery bought in this country, and has attracted great attention there. Late last fall, the same firm received an order to prepare and send out plans, specifications and prices for a complete first-class saw mill, of the kind used in our great lumbering establishments, and complied with the request. The last steamer brought them advices from their correspondent in Japan. from which we are permitted to publish the following extracts. The letter is dated March 10, 1874:

"In regard to orders nothing positive can be said till some time in May, when an officer of the government will be here, and everything will be discussed and settled for each department for summer operations. Everything would have been settled ere this, but there has been some trouble with the heads of the government regarding the Corean insult. The southern part of Japan demanded war against Corea; the middle and northern part oppose it so much that a veto of going to war was proclaimed by the prime ministers, causing some attempts at assassination of some of the ministers; and Iwakava, the head of the embassy that visited America, and who is now a prime minister and highest in authority as ruler in Japan, was attacked by fourteen officers of the war class, cut in several places, but only wounded slightly. Also another of high rank was attacked but not killed. In consequence of these things civil war is somewhat threatened at present, but if nothing more serious should occur, the improvements will go ahead in our department. Up to the time of this trouble everything seemed certain in regard to the erection of more mills.

* * * Some time ago a large English gang mill which had been imported into the country was offered to the government for \$35,000, but the purchase was declined, as the most that could be cut with it was 25,000 per day of 12 hours.

The mill which Messrs. Allis & Co. propose to send out is designed to cut easily 80,000 feet in 12 hours.

CHICAGO HARMONIOUS.

The Sentiment of Chicago Dealers not Hostile to any Movement Tending to Unite the Lumber Trade of the Country.

From the Northwestern Lumberman for July.

The Wisconsin Lumberman's correspondent who wrote to that journal over the name "Chicago Dealer" last month, gave his personal views of the (then) coming convention of lumbermen in a way very likely to mislead as to the true state of feeling existing here concerning it. We do not believe there are many lumbermen here or in any portion of the lumbering sections, but would gladly favor any movement tending to harmonize the trade at large, and to its being conducted on more liberal principles generally. Different views may be entertained as to the manner, time and place of attempting such a movement, also as to the objects to be attained by its consummation. We do not believe any good can result from the publication of personalities of no interest save to the author. If "Chicago Dealer" takes exception to Mr. Symonds' prominence in calling the Williamsport meeting, so far as he is individually concerned, it is his privilege. But we do not think the public cares what his feelings may be upon the subject. We do not think he is justified, however, in giving cause for the inference that the sentiment of our lumbermen, as a body, is in harmony with his own. Our acquaintance sufficient to warrant them is with the assertion that such is not the case. We think a movement inaugurated for the general benefit of the lumber trade, and placed before them in its proper

light, would meet with no more hearty or general support and co-operation than from our Chicago lumbermen. As before stated, opinions might differ concerning time, place or other details. For our part we believe the publisher of the Lumber Trade is justly entitled to all the honor which can possibly accrue to him, for the persistency with which he has labored to effect his object.

"UP THE LINE."

Section 87—A Backwoods Tavern—And its Accommodations—Combined Apartments— A haracter—Exports—Prospects—The District Lookout.

A correspondent of the Oshkosh Times writing from the "Palmer House, Section 87, Roxbury, June 10, says:

Palmer House? Section 87? Roxbury? Where is that, pray? I will tell you. It is not in Chicago, not by a-by 300 miles. Nor is it Roxbury Mass., by a thousand miles. And as for section 87, you will not find it laid down in any of the old or new geographies. But if you will . take the Wisconsin Central railroad cars at Stevens Point, "bound up north" you may find it 87 miles therefrom. It is a cool, shady, place, as you may experience when you get there; an excellent summer resort for played-out doctors, lawyers, and ministers, and plenty of mosquitoes of the kingly sort, to stimulate healthy action of the muscles, and extract any surplus blood, thereby frustrating the insiduous approaches of appoplexy. The accommodations at the Palmer House are extraordinary, especially for invalids. all its appointments have labor saving in view, there being a combined apartment, of ladies' and gents parlor, dining room, general and private sitting room, office, reception room, kitchen, pantry, store room, laundry, etc., all snugly compacted together within four walls of beautiful pine logs, 20x30. And the sleeping apartments "can't be beat" viewed economically. Only one flight of stairs, no need of patent elevators.

dormitory and the ladies' chamber cayed by age, but with bodies so full as well. A good-sized white sheet of "uppers" they would make a lumbeing the partition wall between the berman "fairly leap with joy." two. And as for ventilation and light, in the absence of windows, the air and the stars alike peep in at the cracks through the flat roof between The beds, which are the rafters. very good, not downy feathers to be sure, but nice, clean Norway or white pine plank, I judge, with the soft not now. A genuine Pennsylvania side up. They are ranged along under the low, hanging roof, heads not over thirty, wild as a prairie to the centre, in true army style. And every fellow is expected to keep his position when once laid away for the night, and not turn over or set the thing and taken a job at peeling up in bed, if he has any regard for hemlock bark. He related a "chophis head or shoulders, or even a ping match" which came off there redecent respect for the close fitting cently with regular jubilation. Fifty roof. The economy and compactness of this pioneer hotel arrangement, is made plain, when I tell you that some sixteen or twenty beds are thus put into a room about 20x30 feet square. hostess, Mr. and Mrs. Palmer, are fit to keep the Palmer House of Chicago. A true gentleman and a lady. How they came here, why they came, and how they managed to gather flowers and pluck happiness out of dense forests of pine and hemlock, for nine long dreary winter and spring months, was not revealed to me. But so it seemed; with sturdy Norways for daily companions, an occasional homesteader or land hunter, or railroad hand for a change, they not only existed, but subsisted, not on pine cones either, but on fat elk and deer, and wrought out a good lot of real comfort, so they said. Hemlock bark is the chief article of commerce hereabout. Several camps are now in full blast, each having contracts to get out this season from 2,000 to 5,000 cords. The most of which goes to Milwaukee, at eight shillings per cord. I did not learn of any saw-mill or that any one was in progress above town 33. but oh dear! what magnificent pine trees.

brings you plump into the gents Old chaps with heads brittle and de-

Dry goods and wet goods toobateing barley manufacture-are at a discount here. No chance to Ten years from swindle anybody. now peddlers and drummers may find some gain in their vocation as well as good to their patrons; but Dutchman, American born, young, horse, full of energy and "wild oats," a sort of waif in the wilderness, had strayed up here just for the fun of dollars stake was put up and he was one of the two choppers. He chopped down 65 trees averaging fifteen inches through, and his opponent 62 trees, averaging ten inches. He got But the host and the \$50 but sprained his wrist in doing it, which necessitated a trip to Medford, No. 67, to enjoy the fruits of his labor.

LIMITING THE SUPPLY OF LUMBER.

The lumber manufacturers doing business in the vicinity of Glens Falls, Fort Edward and Sandy Hill, N. Y., held an important meeting on June 20th. Hitherto they have run their saw mills day and night. At the meeting on Saturday, it was resolved to run them half the time. This action is had in consequence of the supply of lumber being already largely in excess of the demand. Lumber is not made from logs secured the present season, but from logs obtained one, two and even three years ago. The supply of logs now en route to the mills, from the gathering of the past few months, is very great. and, consequently, the future cutting of logs will be diminished.

This action of the lumber manufacturers, throws out of employment large numbers of men, It will doubtless be followed in other localities, and thus many thousands will be deprived of work .- Albany

Argus.

YALE LOCK MANUFACTURING COMPANY.

Progress of the Manufacture of Locks and of Bronze Ornamental Hardware—Description of one of New England's Leading Manufactures.

There is much that is curious and interesting in the history of lock making, which dates back to a far more remote period of history than is generally supposed. The labors of the antiquary disclose the fact that some of our most modern improvements in the construction of locks are merely the accidental reproduction of inventions that originated many centuries ago. The ancient Egyptians, those silent custodians of more than one of the "lost art," undoubtedly manufactured locks with tumblers which held the bolt until they were moved by the key, a device usually considered to be of modern origin. Amid the ruins of Thebes and in other localities iron keys have been found evidently designed for locks of this description.

That the Romans also made locks of intricate construction is evident from the numerous discoveries in Herculaneum and Pompeii, and in England there have been found keys which were doubtless contemporary with the Roman occupation of Great Britain. Ages ago the Chinese made wooden locks which operated upon precisely the same principle as the famous Bramah lock, which was invented in England in 1784, and was regarded as the first great improvement in lock making.

In the Bramah lock, so named from its inventor, the use of wards was dispensed with, and other peculiarities of construction gave it the reputation of being a lock which could not possibly be picked. For many years a lock of this kind was displayed in the window of the office in London, with a reward of two hundred pounds to any one who could pick it. This feat was accomplished in 1851 by

Mr. Hobbs, whose first attempt occupied nineteen hours, owing to the breaking of one of his instruments, but he subsequently repeated the operation three times within an hour.

The next lock of any prominence was Chubbs', invented in England in 1818. This was also easily picked by Mr. Hobbs. At the London exposition of 1851 Mr. Hobbs presented for the attention of mechanical experts a lock made by Mr. Pyes, which defied the ingenuity of the best English locksmith, but was finally picked by the late Mr. Linus Yale, Jr., who was for many years the president of the Yale Lock Manufacturing Company, of Stamford, Conn. This triumph of American skill was frankly recognized by Mr. E. B. Denison, the celebrated lock maker of Londan, who says that American locks "are vastly superior to any we have ever seen made in England; and on the whole, the United States are evidently ahead of us in the manufacture of both good and cheap locks."

Within a few years past the hardware business, in all its innumerable departments, has become an interest of immense importance in this country, and among the countless articles embraced under the generic term hardware, locks may be regarded as one of the most prominent. There are of course numerous claimants for distinction in this branch of production, but for ingenuity of design, excellence of material, finished workmanship, and above all, absolute security, none sustain a higher reputation than the celebrated Yale locks above alluded to.

As first manufactured nearly thirty years ago by their inventor, the late Mr. Linus Yale, Senior, these locks were a decided improvement over their predecessors, but their range of application was limited, and their costliness prevented very general adoption. Some years subsequently Mr. Linus Yale, Jr., invented a lock of different and superior

construction, having a flat, folding key, but his attention being soon directed towards bank locks, regarding which great interest was then felt, he for several years confined his labors to their improvement, patenting numerous inventions of great value.

In 1860 Mr. Yale resumed the production of key locks for general use, and soon afterwards patented a style of lock which, with subsequent improvements, has since rendered his name so celebrated. It was of the description called a "pin lock," identical in some respects with that previously made by his father, but possessing the distinctive feature of a key of thin, flat steel, less than an inch and a half long, and weighing but a fraction of an ounce-as shown in the following cut:



All other locks then made had large, heavy keys, as do nearly all others now manufactured, and the thicker the door, the longer must be the key in order to reach the lock, the following being a fair specimen of the keys then in use for heavy doors:

In the Yale lock the escutcheon, or "tumbler case," enclosing the pins upon which the bits of the key operate, is placed near the surface of the door, projecting slightly, so that the long, clumsy shank of the key is dispensed with, the bow and bits brought closely together, and the depth of the escutcheon decides the length of the key, without regard to the thickness of the door.

In general terms we may designate the distinctive pecularities of the Yale lock as being the arrangement of the parts acted upon by the key, and the ly finished workmanship. shape and size of the key itself. Th

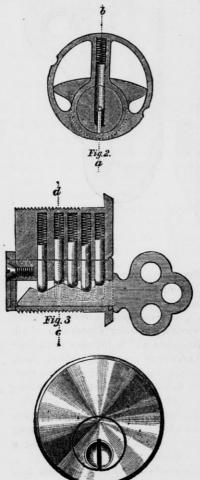


form of the lock and many details of construction of course vary with the intended use, and may not differ essentially from those of other locks except in superiority of design and more thorough-

These prominent features may be illus-

trated by the description of a Yale cuts, of an exterior shell of cylinderimortise night latch, an escutcheon of this kind being applicable to almost any style of mortise or rim lock; flush locks -for drawers, desks, etc.-differing only in having the body of the lock contain the mechanism which is here enclosed in a separate escutcheon.

Sectional views of the escutcheon of a Yale night latch, showing the principle of construction embodied in all the Yale locks:



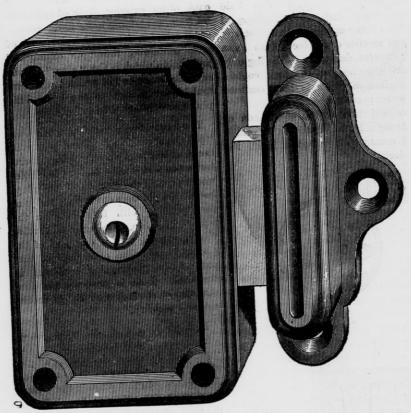
The escutcheon consists, as will be

cal form, containing in its lower part a small cylinder, from which rises a rib of metal containing the "pin chambers," and within which is the "plug," attached to the inner end of which is the cam that imparts motion to the bolt. This plug also contains the key hole.

The escutcheon contains five holes, or "pin chambers," each formed partly in the shell and partly in the plug, therefore a pin which filled one of these holes would prevent the rotation of the plug, but, if the pin were cut in two, the joint corresponding with that between the plug and its hole, the plug could revolve freely, carrying with it one half of the pin, and leaving the other half in that part of the pin-chamber contained in the shell. Such is precisely the construction of the lock and its great element of security.

Each pin is in two parts-the upper termed the "driver," the lower the "pin"-and above each driver is a light spring, tending to press drivers and pins downwards. In this position the drivers intersect the joint between the shell and the plug, completely preventing the rotation of the latter. If, by the insertion of a knife blade, or other instrument in the key hole, the pins are all raised as high as they will go, it will be found that they bar the motion of the plug as effectually as the drivers did, or if four of the pins are elevated to their proper position, the fifth will still prevent the revolution of the plug.

To open the lock, therefore, all the pins must be raised simultaneously to just the proper height, which can be done only with the right key, since the variation of one-fiftieth of an inch in the elevation of either of the pins will prevent the opening of the lock. This explains the immense variety of keys and wide range of permutations of which seen from an examination of the above the Yale lock is susceptible, surpassing



YALE STORE DOOR LOCK.

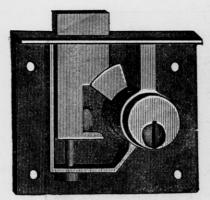
the capabilities of any other lock now made.

The width of the key admits of ten different "bittings," or depth of notches, therefore a lock with but one pin could be variously "set up," so as to be open. ed by ten different keys. In a lock with two pins the number of changes, or varieties of keys, will be 100; three pins, 1,000; four pins, 10,000; five pins, 100,-000; six pins, 1,000,000; seven pins, 10,-000,000. The least number of pins contained in any of the Yale locks is four, as in drawer and desk locks; the night latches have five; the postoffice, heavy store door locks, etc., six; and the "safe deposit" locks-for inside doors of safes, vaults, etc.-have seven pins.

The company manufacture a larger variety of fine locks for all purposes than have ever before been offered to the trade, but the great diversity of styles prevents a particular description of all.

The class which includes store door locks (as illustrated above), closet, chest, drawer, cupboard, safe deposit and post-office locks; rim and mortise vestibule and night latchs, etc., may be sufficiently illustrated by a description of the mode of manufacturing the ordinary drawer lock, of which the following is an illustration:

The shell of the lock is first cast in a sand mould, then cleansed in an acid bath, and finally reduced by revolving cutters to the desired thickness. The



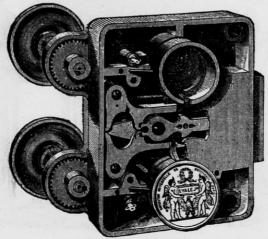
requisite holes are then drilled with the utmost exactness; the bolt is shaped in a milling machine; the plug formed, drilled and tapped; the key hole sawn in it; the "lazy arm," so-called, connecting the bolt and plug, wrought into shape; and the various parts of the lock are ready to be gauged, inspected and assembled. In the finishing room all exposed surfaces of the lock are finely polished upon emery wheels, and lacquer is applied to prevent tarnishing-

The keys, made of cold rolled English steel, imported expressly for the purpose, are punched and stamped with the company's mark, rolled and polished, when they are ready for "bitting." The most

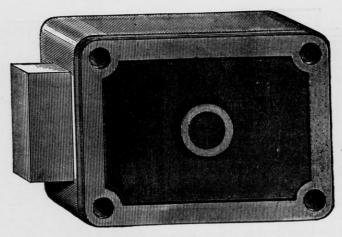


POST OFFICE LOCK BOXES.

exact record of all permutations is preserved, in order to avoid duplication of keys. The lock is then "set up," that is, the springs, pins, drivers, lazy arm, plug and key are properly adjusted, no screws being used in the combination, and the lock is completed. After a final inspection it goes to the packing room, where each lock is cleaned, wrapped in paper and packed in its separate box. These boxes are then placed in cartons



YALE DOUBLE DIAL LOCK.



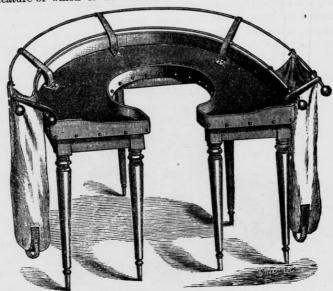
YALE DEPOSIT LOCK.

of a dozen each, and the locks are ready for shipment.

The company makes a specialty of the manufacture of

the most important of which is that known as the Yale double dial lock, illustrated herewith, the distinctive feature of which is the double

principle, whereby one bolt, common toboth, is controlled by either of two entirely independent locks, which may be set on different combinations, thus affording access to two different persons, and avoiding the danger of being "locked ont," the great trouble hitherto arising from combination locks. Each dial operates a distinct four tumbler lock,



IMPROVED MAILING TABLE,

capable of 100,000,000 changes, every combination of which is available. In design materials and workmanship these locks are entirely unequaled and may safely be pronounced the most perfect locks in the world.

Another specialty of this department is the manufacture of safe deposit locks (as shown in cut below) and other fixtures for safe deposit use.

Another leading specialty is the manufacture of postoffice lock boxes, drawers, call boxes, furniture and equipments complete. The demand for this class of work has necessitated large additions to the company's manufacturing facilities.

Over fifty thousand of their lock boxes, as illustrated above, are now in use by the postoffice departments of the United States and Canada, and they supply postmasters with every requisite for the entire furnishing of offices, including lock boxes and drawers, call boxes-with metallic or wooden fronts-counters, assorting and distributing apparatus, delivery windows, letter hole plates, money order stamps, inking pads, postal indicators, postoffice books, etc. Estimates are made and designs furnished for the most economical and convenient arrangement and furnishing of offices, according to the size and extent of business. More than four hundred offices have been fitted up by this company, and the expressions of satisfaction are entirely unanimous.

Below we give cut showing their improved mailing table.

The company also make several varieties of prision locks, for cell and corridor doors, etc. The "jam lock" unquestionably affords the most perfect security of any device ever introduced for the purpose. Instead of being attached to the door, as usual, it is built into the masonry of the cell wall, the bolt projecting into the door jam, rendering any attempt to tamper with the mechanism of the lock entirely futile. The

lock is furnished with six pins, or tumb lers, capable of more than 1,000,000 changes, and the strength of the material employed is such as to make these locks impervious to any attacks, from within or without.

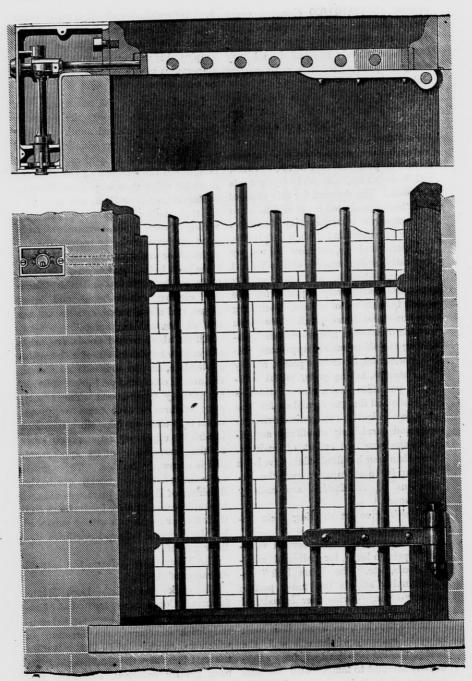
In addition to the manufacture of locks of all descriptions, the company have recently combined another department, that of the production of real bronze ornamental hardware, having bought out the business of the Whitney Manufacturing Company (late Whitney & Rogers), of New York, and now offer to the hardware trade an extensive variety of such goods as ornamental front door and house locks, in many sizes and styles; door knobs and handles, fast and loose joint butts, escutcheons, bolts, bell pulls, catches, shutters and sash fasteners, window pullies, name and letter plates, and many other articles in the line of house "trimmings."

All the above named goods are made of genuine bronze metal, of a beautiful golden hue, and in elegance of design, richness of color, and perfection of finish, are entirely unsurpassed. The superiority of bronze over brass or plated metal is at once obvious, since it cannot tarnish by exposure, requires no labor for the preservation of its appearance, and is extremely durable. These goods are coming into very general use in the finishing of first class private dwellings, banks, offices and public institutions, and their former reputation will be enhanced by the present enlarged facilities for their manufacture.

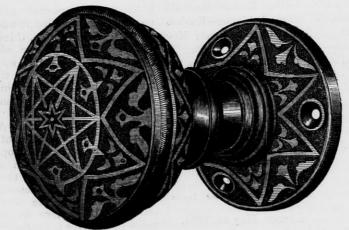
The illustrations indicate the general character of the work.

The works of the Yale Lock Manufacturing Company are located at Stamford, Conn. The buildings are substantial; brick structures, the erection of which was commenced in 1868. Within the past two years the establishment has been greatly enlarged, additional machinery built, the steam power increased,

The Wisconsin Lumberman.



YALE PRISON LOCK.



and the general manufacturing facilities fully doubled, in order to keep pace with the steadily increasing demand for their production. Both the locks and the bronze goods have become staple articles



with the hardware trade and constitute a portion of the regular stock of the principal dealers in all parts of the country. Indeed, so great has become the demand that until quite recently the company were unable to fill their orders, but their present arrangements are such as to enable them to supply the trade promptly.

The death of Mr. Linus Yale, Jr., formerly president of the company, occurred about five years ago. He was succeeded by Mr. Henry R. Towne, who has long had the direction of the manufacturing department, and now controls the entire management of the business.

Their illustrated catalogues, giving specific information regarding the various style of Yale locks, are eminently worthy of examination by the hardware trade, and will be found of interest to all who take pride in the successful development of American manufactures. All dealers not already supplied with these catalogues are advised to apply to the company for them, and the same will be forwarded without charge.

The principal office is at the works in Stamford; the New York salesroom is at No. 298 Broadway, and the company have agencies as follows:

Boston—A. T. Young, 26 Broad street;

Philadelphia-Miller, Zinn & Bro., 415 Commercial street; Baltimore-Keith & Kelso, 23 South Charles street; New Orleans-Stauffer, Macready & Co., 71 Canal street: Buffalo-Pratt & Co., 46 and 48 Terrace; Cincinnati- -Chicago-D. S. Covert, 57 State street; St. Louis-E. C. Simmons & Co., 222 North Main street; San Francisco-James L. Barker, 412 Market street; Toronto, (Can.)-E. H. Moore, 54 Front street, E.

THE TIMBER SUPPLY.

Correspondence of the London Timber Trades

LONDON, May 26, 1874.

Sir:-Notwithstanding the question of the timber supply is one in which the people of the United States and Canada are as deeply interested as the people here can possibly be in that of the coal or iron supply, up to within a few months hardly a thought was given to the subject, and not till it was brought to the notice of the American and Canadian public in a communication which was presented to the National Board of Trade Convention which met in October last at the city of Chicago, was the matter taken into serious consideration by either press or people. That communication was written by one of the oldest timber men in Canada, and giving the statistics of supply and consumption in all the eastern, middle, and northwestern states of the American Union, it was shown that all the pine and other timber used for building purposes, would not give them a supply for over a dozen of years at the yearly increasing rate of consumption then going The question has, however, since that time being pretty well ventilated, as you will see from the numerous extracts herewith presenton that subject.

in the most destructive and reckless manner, wasting what it would take generations to replace, if indeed this could be effected by any effort that could be made, without ever giving a thought to the position the country would be placed in when such a calamity as the total exhaustion of their timber overtook them.

The question of the American supply, and especially that of Canada, being one in which the people of this country are interested in a degree second only to that of the Americans and Canadians themselves, it is very surprising to me why writers on the subject here do not try to make themselves conversant with the facts before rushing into print, and thus, in utter ignorance of the question, mislead the public with regard to it. The following I find in the Standard of this city, of the 16th ultimo., after ransacking the timbersupplying countries of Europe for timber and finding them about exhausted, it says, "We should fix our attention upon the territories of British North America, which, notwithstanding the drain upon parts of them, contain sufficient supply for the most exacting populations of the earth for centuries." Again, we get the following from the Building News, also of this city: "As to British North America, no one can form anything like an accurate estimate of the enormous wealth of timber, comparatively neglected, and yet so dear in our market, [query, why is it so neglected and yet so dear? It is computed at a guess that there are about 900,000,000 acres in British North America occupied by timber trees, or more than the extent of Great Britain a dozen times over." Again, in your Journal of the 16th inst., we find the following in a very interesting article on the subject of timber houses by Mr. ed from the leading papers scattered Frank C. Thicke. He says: "Till over the United States and Canada within the last few years young forests have been ready for hewing The people there were going on in Scandinavia when the old ones

feeling now-a-days is unfortunately short period of three years, if called towards promoting felling in order on to do so. The oak, ash, whiteto keep pace with the increasing wood, and walnut Canada is now demand for exportation, but still I stripped of, and two or three years do not think that there is any great at the fartherest will see an end of reason for anxiety and alarm, for her elm; and as she will for the even if this improvident deforestation future be called on to supply to a is allowed we can but resort to the greater extent than heretofore the American markets for our supply of yearly increasing waste and wants of timber." writer over the name of "Lignum pecially if reciprocity is effected be-Vitæ" in the same issue of the tween the two countries, I am as Journal, who, in concluding his re- confident as it is possible to be on marks on the supply in Sweden (and any question of the future, that not notice by and by), asks the question, market in a decade from now; and I . "if a corner of Europe will give us am just as sure that in less time the

to me that such utter ignorance as the United States, which are but the preservation of their nearly exsome eight or nine days steaming hausted such a large proportion, and I might say the only description of building timber fit to be called such in your

markets.

south, this side of the Rocky Moun- menting it by drafts on Canada. tains, have not as much building timber, which may be comprehended marks of the gentleman who gives in the material of pine, hemlock, and spruce, as will last them a dozen of years at the present yearly increasing rate of consumption; and munication on the timber supply I will venture to assert, without fear published in a preceeding number of of successful contradiction, that instead of Canada having "a supply cises. for the most exacting populations mences with, "I find in conversing for centuries," she has not as much with the timber merchants of Liverof those descriptions of timber this pool, Glasgow, and this city, on the side of the Pacific slope as would subject of timber," &c. supply the present consumption of says your correspondent has paraded

were demolished, but the general the United States alone for the And lastly, we have a the United States, and this more eswhose communication I will farther a foot of her timber will reach this the annual supply without diminish- United States will be competing with ing the capital stock, what rate of you in whatever other markets you consumption the mighty and inter- may be drawing your supplies from. minable forests of America will en- Notwithstanding their "mighty and dure from age to age without the interminable forests" which "Lignum likelihood of appreciable diminu- Vitæ" assures us they have, and the nine hundred millions of acres which It is, sir, quite incomprehensible the Building News says Canada has lying alongside of them, alarmed at the foregoing extracts exhibit should the denudation of their forests, the at this day be entertained regarding Congress of the United States are the supply of timber in Canada and now legislating on the question of resources, and from your shores, and from which bonuses for timber-planting; and you have for so many years drawn they are also entertaining the question of reciprocity with Canada, a question they would not think of for a moment did they not see the necessity of preserving the timber now The United States, north and left as long as possible by supple-

I should, sir, judge, from the rehimself the heavy wood name of "Lignum Vitæ," that he could not . have very carefully read the comyour Journal he so furiously criti-The very first paragraph com-Again, he

very large figures, which seem capa- product by sixteen millions of loads ble of considerable modification; but -the yearly consumption of pine he forbears to enter into calculations alone—he will see that a fraction on the side of supply which would over twelve years will use up all the render the others perfectly insig- pine and spruce, pitch and yellow, nificant. Here your correspondent's north and south, this side of the critic asserts in the most positive Rocky mountains, without adding a manner what he cannot prove, and, foot for the yearly increasing conin fact, what he knows nothing about, sumption, which will very materially and complains that the man he criti- reduce the time of total exhaustion; cises forbears to enter into the and should he be curious to learn sources of supply, while he has gone how the foregoing statistics were arover every state and territory of the rived at, I will tell him. When the Union, pointing out those that are communication to the National Board about how much they have, and lumber-supplying states, and particthose that are prairie and treeless home to New York, and is not here to give further information on the subject, I will, with your permission, supply his place in this respect by giving the quantities estimated at the highest figures in the different states and territories, leaving out those on the Pacific side, which have not more than will be necessary for their own wants, the whole being estimated at under seventy thousand millions of feet; but even should they have any to spare, it would be cheaper for the other states to get their supplies from the 180,000 square miles which "Lignum Vitæ" says they have in a corner of Europe, than by Cape Horn or their own Pacific railways.

Michigan, yellow pine	50,000,000,000
Wisconsin, "" "	20,000,000,000
Minnesota, " "	16,000,000,000
Minnesota,	5,000,000,000
Pennsylvania, pine and hemlock	
W. Virginia, yellow pine	7,000,000,000
E. Virginia, pitch pine	150,000, 00
	10,000,000,000
Maine, chiefly spruce	
New York, pine	900,0 0,000
Alabama, pitch pine	1,500,000,000
Madama, proof pine	
Florida, " "	
N. Carolina, pine	1,6(0,(0),00
S. Carolina, "	90,000,000
	1,500,000,000
Georgia, "	-100001

Making altogether, feet......115,440,000,000 but which reduced to loads will give 192,400,000; and if "Lignum Vitæ"

before us on the consuming side will take the trouble of dividing that about exhausted, those that have of Trade Convention above mentioned timber on them, where it is, and was made public, it was seen by those ularly in the west, that it would be This, one would think, necessary to take steps to counteract should be quite satisfactory as re- its effects, or the people would be gards the supply; but as your cor- clamoring for the admission of lumrespondent has long since returned ber from Canada free of duty, and an investigation of the supply in the several timber producing states was at once set on foot; and if not with an endeavor to make the aggregate as large as possible, it was certainly not intended to make it less than it was; but all their efforts in this direction only served to show that the Canadian's lumberman's figures of supply could not be gainsayed, and the congressional returns of consumption show he was rather under than over the actual yearly requirements. and, now that we have the questica of reciprocity under consideration, what under other circumstances would not be for a moment entertained. "Lignum Vitæ" informs us that he knows of a hundred thousand acres of well-timbered lands on the St. Lawrence which can be purchased for 7s. 6d. per acre. If he knows this, he knows what no one in Canada does; and I will assure him, that instead of 7s. 6d. per acre, if the fortunate party will only hold on to it, and it has but ten good pine trees instead of "three hundred" to the acre, and if within reasonable distance of water to float it to the St. Lawrence, it will bring him from one hundred to five hundred dollars per acre in less than a half-dozen years from now. Good pine timber will now bring from one hundred to three hundred dollars per acre in western Canada if anywhere on the frontier; in the old settlements, I have known as high as three hundred and fifty dollars an acre paid for pine trees; but what is called well timbered land in Canada is not composed of pit props and other such stuff, as I have seen here from the north of Europe.

"Lignum Vitæ' says your correspondent proves too much for the theory he desires to set up, and asks "If the United States already consume annually more than double as much timber as the mercantile navies of Europe and America could carry, and as only a small portion of those ships is employed in the lumber trade, how is that vast quantity brought into use?" and then answers his own question as your correspondent would have answered it, that the bulk of it is used where it is cut down. But what has all this to do with what your correspondent said on the subject? He simply stated that the present annual consumption, computed at 30,000,000 of loads, is more than double all the tonnage of Europe and America combined; and if this proves too much or too little, or anything beyond giving an idea of the rate of consumption, I am at a loss to conceive. One thing, however, it has proved, and that is that your correspondent's critic, as I said before, could not have read very carefully the letter he criticises, or he would not have kept on blundering in this way about it.

I will leave the gentleman to settle the question of the "Trojan war" the "battle of Salamis," and the supply in the "northern corner of Sweden," with Mr. Thicke, who has but recently returned from there under such discouragement as to force him not only to look towards America, but all the way to India and Japan

as sources of supply.

To conclude, sir, the question othe timber supply is one of vast importance both to the people of this country and Canada, and if discussed at all it should be not by "guess" work and reckless assertions, but deliberately, honestly and dispassionately, with a view to eliciting the facts, and without such bitterness as is manifested by the gentleman I have taken the trouble to notice, and who, as far as I can see, has been given no reason for the exhibition of the bad temper his attempted criticism of your correspondent's communication presents.

Yours very obediently,

A CANADIAN. hern Sweden must b

P. S.-Northern Sweden must be a most extraordinary section of the timber world, for we are informed by "Lignum Vitæ" it contains 180,000 square miles, while the whole of Sweden claims but 176,000 east, west, north and south. The northern portion, then, it may be calculated, will amount to one quarter the area of the kingdom, which would be 44,000 square miles, and as he "rejects half the territory as rivers, lakes, rocks; cultivated valleys and inaccessible places;" in his calculations, we have then 22,000 square miles or 14,080,-000 acres of timber. The United States Department of Agriculture estimate the consumption of timber during the present decade, at one hundred millions of acres, or an average of ten millions of acres per year, which "Lignum Vitæ" will see would use up all the scaffolding poles of 300 to the acre that corner of Europe possesses in less than a year and a half. It is said besides that thirty years will strip the United States of every description of timber-firewood, pit props, railway sleepers, scaffold poles, hop poles, bean poles, in fact leave them without a faggot from the Pacific to the Atlantic seaboard.

Subscribe for the Wisconsin Lumberman, only \$2.00 a year.

LUMBER IN MISSISSIPPI.

Mississippi, pre-eminently an agricultural state, bids fair to yet rival It is protected by Horn island, which Maine or Michigan as a lumber centre. There is no limit to the demand for lumber from abroad; there is no limit to our supply. All southern Mississippi, and extending far back into the interior, is one vast unbroken pine forest, whose wealth of timber has yet been scarcely tapped. Your correspondent has lately traveled the counties along the seacoast, which form a part of what is now generally spoken of as "The Great Lumber Region of Mississippi," with the special purpose of noting the increase in this industry, the facilities for shipping, etc. When I say that three thousand miles of river, navigable for rafts, wind through this "great lumber region," some idea may be formed of its vast extent. At this place, the Pascagoula river debouches into the gulf; or, more properly, into the Mississippi sound. The Pascagoula and its tributaries, all navigable for rafts, drain all that section of country, from the Mobile and the Tombigbee on the east, and from near the Pearl on the west and as far north as a county or two south of the Vicksburg and Meridian railroad. The Pearl river, emptying into the sound near Bay St. Louis, drains Harrison, Pearl, Lawrence, Pike and two or three other counties; and the Jordan and Wolf rivers, emptying into Bay St. Louis, extend for more than one hundred miles into the interior.

At Moss Point, some six miles above this, at the junction of the Dog river with the Pascagoula, there are now in operation eighteen large saw mills; three or four below the point, and a few smaller ones higher up. From these mills the lumber is transported to the ships in the harbor upon schooners, which generally carry about 40,000 feet each trip. The average capacity of the exporting vessels is about 200,000 feet, or say

of 200 tons, though some are as large as 450 tons. The Pascagoula harbor is considered the best on the coast. lies off shore eight miles. Just inside of the island, vessels can load to the depth of eighteen feet, while vessels drawing less than sixteen feet can load within two miles of the shore. There are now several foreign vessels in port, loading for England and the continent.

To show the growth of the lumber business within the past year: I find that from this district (which includes both the ports of Shieldsboro and Pascagoula) that in January of this year there were 30 vessels cleared, 18 for foreign ports-West Indies, Mexico, South America, England, Belgium, etc., and 12 for coastwise ports-New York, Philadelphia, etc. These vessels had a total tonnage of 7,945 tons, and carried from our shores 5,536,569 feet of lumber. In February, March and April, there was cleared an average of 24 vessels each month. The lumber sells at the mills at an average of \$15 per M.

To still further give you an idea of what it will be in the future, I will copy from my notes some recent sales of lands in the lumber region. Mr. C. H. Shepherd, of Lansing, Michigan, has purchased 40,000 acres in Hancock and Pearl counties, and located on the Pearl and Jordan rivers. Mr. J. D. Norton and Mr. T. A. Flowers, of Pontiac, Mich., something over 40,000 acres, located on Black creek, a tributary to the Pascagoula. Some of these lands are in Lawrence and Copiah counties, on the Pearl; but mostly in Marion county, on Black creek. Mr. T. Hall, of Ann Arbor, Michigan, has purchased about 30,000 acres on the Pearl, the Jordan and the Pascagoula. Mr. S. M. Wilcox, one of the heaviest land. owners in Michigan, has bought 12,000 acres on Pearl river, in Marion These lands have mostly county. been sold by Mr. S. M. Baldwin, of Chicago, who has spent the last two

years in Mississippi, purchasing and growing constantly. selling lands. He tells me that he has sold about 175,000 acres during there are two shipyards at Pascagoula. that time. Mr. Baldwin purchased I saw a beautiful \$28,000 schooner. 122,000 acres from the famous Pearl just completed for a Mexican trader, River Navigation and Improvement lying gracefully out a few miles from company and the rest from private shore. Both these yards have as ton will immediately put their mills Moss Point, there is also a foundry, in operation.

on hand, of which you may have there are few lands for sale in the him in rafts. mills on the Island. The most of the timber is the large product of the forest the world over, perfection, and in exhaustless abundance. These pine trees reach an al- respondence of the Vicksburg Herald. titude in many instances of more than 100 feet without a crook or limb.

Another thing of importance; the forest fires never injury the timber as they do in Michigan and Maine; there is no undergrowth, and no "swamping" necessary. The soil is a coarse sand, or gravel, and no ruts are made by the wagons in hauling. The land is rolling, high and dry. On Pearl river, cypress is also plentiful; and there are numerous openings not only for sawmills, but for shingle-machines, factories for making buckets, tubs, sash and blinds, chairs and furniture. There are about twelve sawmills on Pearl river, the largest ones owned by Mr. Poitevant; six on Wolf river and five on Jordan; about twenty on the Pascagoula, and several other smaller streams, and the number is MAN-only \$2.00 a year.

I should have mentioned, also, that parties. Messrs. Shepherd and Nor- much business as they can do. At and quite a large one. Different Mr. Shepherd has another project from other sections of Mississippi, He wishes to build a mill on coast counties, though any quantities Ship Island, where the largest vessels lie further back, and accessible, as I can be loaded directly from the mills, have stated, to the seacoast by the nuand thus save the expense of lighter- merous inland streams. Mr. Baldwin age. His timber will be floated to informed me that his sales had been Ship Island, you made at from \$1.25 to \$3.50 an acre. know, is property reserved to the I hear of numerous tracts for sale. government, and Mr. Shepherd is where the lumber would have to be now in Washington seeking the hauled not more than from one to neccessary authority to locate his three miles, which can be bought at For the benefit from \$1 to \$5 an acre, according to of western men, I must not neglect location. There are also, large tracts to mention some important facts in of land, which actual settlers can reference to this lumber region. take up under the homestead act—160 acres, if I am not mistaken, to each leaf yellow pine, the most valuable head of a family. The land is generally, however, too poor for agriculand which is here found in greatest tural purposes, though for stock raising, it is excellently adapted. Cor-

> At East Boston, Mass., there has been built by N. Gibson, as an experiment, a three masted schooner without frame. The vessel is 138 feet long, 32½ feet beam, and 12 feet two inches depth of hold. Long, sharp, large capacity and buoyancy. The vessel is composed of square logs of spruce, one foot square, placed one upon the other, and secured together by iron bolts, three feet long and placed twelve inches apart. The owner expects that this vessel will prove to be stronger, more capacious, and faster than vessels of the ordinary construction. In timber there is a saving of forty per cent.

Subscribe for the Wisconsin Lumber-

THE BIGGEST SAWING EVER DONE IN THE WORLD.

From the Bay City, Mich., Tribune.

The mammoth lumber manufactory of John McGraw & Co., in the Seventh ward of this city, is famous the world over. It is one of the finest mills in the world, as well as one of the largest. Its cutting capacity has been considered to be about 175,000 feet per day, but on vesterday more than that amount was cut in less than three hours. The occasion was a special test of the mill, with all the saws put to their greatest speed for three hours. McGraw made arrangements for the test some time since, but to avoid the rush which would inevitably have occurred had a public announcement been made of the fact, the matter was kept rather quiet. There was a large number of people present, however, yesterday afternoon, and at two o'clock precisely the

MACHINERY WAS STARTED.

At five a stop was made, and it was ascertained that the mill had cut the unprecedented amount of one hundred and seventy-nine thousand, seven hundred and eighteen feet. Twenty minutes was lost during the three hours, which would make the actual running time but two hours and forty minutes. The amount cut, named above, was by the log scale. By the lumber scale it would be considerable more, and Mr. McGraw is confident that the lumber will measure two hundred thousand feet. An idea of the extent of the cut may be formed. when we state there is but one other mill on the river which can cut such an amount in an entire day. It is the biggest work ever known, and entitles the mammoth mill of Bay City to the

CHAMPIONSHIP OF THE WORLD.

The cut by hours was as follows:

First hour. Second hour. Third hour.	56,545
Total	179,718

The cut by saws during the three hours, was as follows:

	Feet.
Live gang	42,986
No. 1 circular	48,542
No. 2 circular	
Slabbing and flat gang	
Total	179.718

AVERAGE TIME.

The time taken to cut a log was taken, and it was ascertained that logs averaging 600 feet were passed through the live gang in an average time of two minutes each. Logs of the same size were passed through the flat gang in one and a half minutes on the average.

REVOLUTIONS.

The revolutions of the saws were also taken. The No. 2 circular made 550 revolutions per minute, with a feed of six and a half inches; No. 1 circular 600 revolutions per minute The No. 1 circular slabbed for the flat gang, and the No. 2 circular sawed complete. There are two circulars and two gangs in the mill.

AN ARMY OF TEAMS.

Running twelve hours per day the mill would cut, at the rate at which it slashed out lumber yesterday, 720,000 feet in twelve hours. This would load two ordinary vessels, and if loaded on double wagons, 720 would be required to transport the day's cut, thereby forming a procession of teams and wagons four and one-half miles in length.

THE LARGEST ON RECORD.

The biggest sawing on record previous to yesterday, was 400,000 feet in twelve hours. McGraw's mill beat the ratio of that work per hour by about 50 per cent.

Examine the "Lumbermen's Register" at the end of this volume and report additions or corrections to the Wisconsin Lumberman Publishing Co., 64 Oneida street, Milwaukee, Wis.

CLASSIFICATION OF WOOD.

From the Boston Lumber Trade.

EXAMPLES OF PINE-WOOD.—The following are a few examples of timber of this class:

I. Pine timber is the wood of various species of the genus Pinus, the best being that of the Red Pine, or Scottish Fir (Pinus sylvestris), grown in the north of Europe. This wood is stiff, strong, and straight-grained, and well suited for large framing.

Pine timber is also obtained from various other species, chiefly North American, of which the best are the Yellow Pine (Pinus variabilis) and White Pine (Pinus Strobus). It is softer and less durable than the Red Pine of the north of Europe, but logs.

Timber similar in its properties to the best kind of pine is produced by (Dammara Australis).

II. White Fir, or Deal timber of the best kind, is the wood of the Spruce Fir (Abies excelsa), grown in the north of Europe.

This is an excellent kind of timber for light framing and joiners' work, and is specially well suited for making patterns of machinery.

Among other kinds of spruce fir applied to the same purposes are the North American White Spruce (Abies alba), and Black Spruce (Abies nigra).

EXAMPLES OF LEAF-WOOD WITH Large Rays.-I. Oak timber belongs to the first subdivision of Tredgold's system. It is the strongest, toughest, and most lasting of those grown in temperate climates, and is well suited for framing in which strength, toughness, and durability are required; but it has in general the defect, which is a serious one as regards machinery, of being subject to warp. or varieties of the botanical genus

lic acid, which contributes to the durability of the timber, but corrodes Metal fastenings for oak should therefore be of copper, or its alloys; or, if of iron, they should be well coated with zinc.

The following are examples of trees belonging to Tredgold's second subdivision:

II. Beech (Fagus sylvatica), common in Europe.

III. American Plane (Platanus occidentalis), common America.

IV. Sycamore (Acer pseudo-platanus), also called Great Maple, and in Scotland and the north of England, Plane; common in Western Europe.

All these afford compact wood of lighter and can be had in larger uniform texture. They are valuable for blocks which have to resist a crushing force. They last well when constantly wet (especially beech), the Kauri or Cowrie of New Zealand but when alternately wet and dry they decay rapidly.

> Examples of Leaf-Wood WITHOUT Large Rays. - The examples of timber in this Article belong to the first subdivision of the second division according to Tredgold's system, having no large distinct medullary rays, and having the divisions between the annual rings distinctly marked by a more porous structure. They are in general strong, but flexible; and therefore, in machinery, they are suitable for pieces in which the power of bearing shocks is of more importance than rigidity.

> I. The Ash (Fraxinus excelsior) furnishes timber whose toughness and flexibility render it superior to that of all other European trees for making handles of tools, shafts of carriages, spokes of wooden wheels, and the like; but which is not sufficiently stiff and durable to be used in framing.

II. The common Elm (Ulmus cam-It is obtained from various species pestris) and smooth-leaved Elm (Ulmus glabra) yield timber which is very durable when constantly wet, The wood of the oak contains gal- but not when alternately wet and dry. Its strength across the grain, and its resistance to crushing, are comparatively great; and these properties render it useful for some parts of mechanism, such as cogs of wheels and shells of ships' blocks. There are other European species of elm, such as the Wych Elm (Ulmus montana); but their timber is inferior to that of the two species named.

A North American species, the Rock Elm, is said to be not only durable under water, but straightgrained and tough, so as to be well

suited for framing.

Examples of Leaf-Wood without LARGE RAYS CONTINUED.—The kinds of timber mentioned in this Article are examples of the second subdivision of Tredgold's second division, having no large distinct medullary rays, and no distinct difference of compactness This uniformity of in the rings. structure is accompanied by comparative freedom from warping; and hence this subdivision contains various sorts of wood which are specially well adapted both for framing and for moving pieces in machinery, form are required.

I. Mahogany (Swietenia Mahagoni) is produced in Central America and the West India Islands-that of the region being commonly known as "Bay Mahogany;" that of the latter, as "Spanish Mahogany." When of good quality, it is very straight-grained, very strong in all directions (though easily split along the grain), very durable, and preserves its shape under varying circumstances as to heat and moisture, better than any other kind of timber which can be procured in equal abundance. Mahogany varies much in quality; bay mahogany being in general superior to Spanish mahogany in strength, stiffness, and durability, and in the size of the logs, which are from 24 to 28 inches Bay mahogany of good

timber for the framing of machinery. Spanish mahogany is the more highly valued for ornamental purposes. Spanish mahogany is distinguished by having a white chalky substance in its pores, those of bay mahogany

being empty. II. Lignum-vitæ (Guaiacum officinale) is produced in the West India Islands. It is remarkable for heaviness, compactness, toughness, and hardness, and for the property of resisting a crushing force with nearly equal strength across and along the grain-a property which makes it specially useful for rollers, sheaves, and other moving pieces in mechanism. In converting logs into sheaves, the direction of the fibre of the timber is parallel to the axis of the sheave. The heart-wood is yellowish-green, the sap-wood greenishvellow; and it is considered advisable, in cutting it into pieces suitable for sheaves, to leave a ring of sapwood all around the heart-wood, which is thus protected against too rapid drying, and prevented from splitting.

well adapted both for framing and for moving pieces in machinery, where accuracy and constancy of form are required.

I. Mahogany (Swietenia Mahagoni)

I. Mahogany (Swietenia Mahagoni)

I. West India Islands—that of the various other woods, chiefly tropical.

The subdivision embraces various kinds of timber grown in tropical climates, which are highly valued for shipbuilding purposes, and which would be suitable also for the framing of machines—such as the Teak (Tectona grandis) and Saul (Shorea robusta) of India, and the Greenheart (Nectanda Rodiæi), Mora (Mora excelsa), and Sabicu (Acacia proxima) of South America and the West Indies.

Seasoning.—Seasoning timber consist in expelling, as far as possible, the moisture which is contained in its pores.

which are from 24 to 28 inches Natural Seasoning is performed square. Bay mahogany of good simply by exposing the timber freely quality is probably the best of all to the air in a dry place, sheltered,

if possible, from sunshine and high decays by "dry rot," which is accomwinds. The seasoning yard should panied by the growth of a fungus, be paved and well drained, and tim- and finally converts the wood into a ber supported on stone of cast-iorn fine powder. bearers, and piled so as to admit of the free circulation of air over all of preserving wood, are good seathe surfaces of the pieces.

Natural seasoning to fit timber for carpenters' work usually occupies about two years; for joiners' work and machinery, about four years; but much longer periods are sometimes

employed.

To steep timber in water for a fortnight after felling it, extracts parts of the sap, and makes the dry-

ing process more rapid.

Artificial Seasoning consist in drying the timber in an oven by means of a current of hot air. It occupies from seven or nine days for each inch of the thickness of the piece of timber.

In the course of drying, timber loses weight and shrinks in its transverse dimensions. The loss of weight ranges in different examples from 6 per cent. to 40 per cent.; and the transverse shrinking from 2 per cent. to 8 per cent., the most common rate being 3 per cent. The sorts of wood which shrink most in drying are the most subject to warp.

DURABILITY, DECAY, AND PRESERVA-TION OF WOOD.—All kinds of timber are most lasting when kept constantly dry, and at the same time freely

ventilated.

Timber kept constantly wet is softened and weakened; but it does not necessarily decay. Various kinds of timber, some of which have been already mentioned, such as greenheart, elm and beech, possess great durability in that condition.

The situation which is least favorable to the duration of timber is that of alternate wetness and dryness, or of a slight degree of moisture, especially if accompanied by heat and

confined air.

alone, without the presence of any ion of the fibres, is always considerconsiderable quantity of moisture, ably less than the tenacity along the

Amongst the most efficient means soning and the free circulation of

Protection against moisture is afforded by oil paint, provided that the timber is perfectly dry when first painted, and that the paint is renewed from time to time. A coating of pitch or tar may be used for the same purpose.

Protection against the dry rot may be obtained by saturating the timber with solutions of metallic salts, such as sulphate of iron, sulphate of copper, bichloride of mer-

cury, and chloride of zinc.

Timber is protected against wet rot, dry rot, and white ants, by saturation with the liquid called commercially "creosote," which is a kind

of pitch oil.

STRENGTH OF TIMBER. — Amongst different specimens of timber of the same species, those which are most dense in the dry state are in general also the strongest.

Tables of the results of experiments on the strength of different kinds of timber, strained in various

ways, will be given hereafter.

The following are some general remarks as to the different ways in which the strength of timber is exerted:

I. The Tenacity along the grain, depending, as it does, on the tenacity of the fibres of the vascular tissue, is on the whole greatest in those kinds and pieces of wood in which those fibres are straightest and most distinctly marked. It is not materially affected by temporary wetness of the timber, but is diminished by longcontinued saturation with water, and by steaming and boiling.

The Tenacity across the grain, de-Timber exposed to confined air pending chiefly on the lateral adhesgrain, and is diminished by wetness and increased by dryness. Very few exact experiments have been made upon it. Its smallness in pine-wood, as compared with leaf-wood, forms a marked distinction between those two classes of timber, the proportion which it bears to the tenacity along the grain having been found to be, by some experiments—

In pine-wood, from 1-20th to 1

1-10th.

In leaf-wood, from 1-6th to 1-4th

and upwards.

II. The Resistance to Shearing, by sliding of the fibres on each other, is the same, or nearly the same, with

the tenacity across the grain.

III. The Resistance to Crushing along the grain, depending, as it does, on the resistance of the fibres to being crippled, or "upset," and split asunder, is greatest when their lateral adhesion is greatest, and was found by Mr. Hodgkinson to be nearly twice as great for dry timber as for the same timber in the green state. In most kinds of timber, when dry, it ranges from one-half to two-thirds of the tenacity.

Experiments have been made on the crushing of timber across the grain, which takes place by a sort of shearing; but they have not led to any precise result, except that timber in general is both more compressible and weaker against a transverse than against a longitudinal pressure; and, consequently, that intense transverse compression of pieces of timber ought to be avoided. Certain special kinds of timber are valued for the property of resisting compression across the grain well. Of these the most generally used is lignum-vitæ.

Use of Wood in Machinery.—The following statement as to the more ordinary kinds of wood, according to the purposes in machinery to which they are applicable, is principally based on a similar table given by Holtzapffel in his treatise on Mechanical Manipulation.

For Framework — Mahogany is strong, stiff, durable, and free from warping. Pine and deal are strong longitudinally, stiff, and straight-grained. Oak, teak, and saul, are strong, tough and durable. Ash is tough and pliable. Elm (durable when wet), and beech are strong against pressure.

For Levers and Connecting-Rods—

For Levers and Connecting-Rods— Pine, deal, and mahogany are strong and stiff. Oak and teak are strong and tough. Ash, hazel, hickory, and lancewood, are tough and pliable.

Lignum-vitæ, box, and mahogany are used for pulleys, sheaves, rollers. Box, beech, holly, lignum-vitæ, and elm, are used for bearings for shafts. When wood is used for bearings, the ends of the fibres should be exposed to the pressure. Crabtree, hornbeam, locust, and beech, are used for cogs. Deal, mahogany, pine, and alder, are used for patterns.

In machinery whose speed is liable to be suddenly changed or checked, it is often useful to make some of the parts, which transmit the motion, of wood, although the whole of the remainder may be of iron; the object being that the wood, by yielding to a shock, may prevent it from damaging the iron; and also that in the event of breakage occuring, it may take place in the wooden parts, which can be replaced more easily and at a less cost than the iron parts.

For example, the great spur fly-wheel, by means of which a steam engine or a water-wheel drives the machinery of a mill, is very generally a mortis-wheel; that is to say, a castiron wheel with rectangular sockets called mortises in its rim, into which are fitted wooden teeth called cogs. The pinion which those teeth drive is wholly of cast-iron. Wooden cogs are made double the thickness of cast-iron teeth that have to bear the same pressure.

Another instance of the application of the same principle is when, in a steam engine that drives an iron rolling mill, the middle part of the thickness of the connection - rod, which transmits thrust, is made of wood, the tension being transmitted by means of a wrought-iron strap.

THE INVENTOR OF THE CIRCULAR SAW.

Correspondence of the Chicago Post and Mail.

Not long since an article appeared in your paper, giving credit for the invention of circular saws to some man in Vermont, and the writer suggests the idea of erecting a monument to his memory, and in response to the same I have taken the liberty

to send you the following:

In a lonely, secluded position in the northwest corner of the cemetery near the ever beautiful little village of Richmond, Kalamazoo county. Michigan, the historian can find, on a pure white marble slab, nearly concealed from view by a large cluster of lilac bushes, engraved the simple name of "Benjamin Cummins, born A. D. 1772, died A. D. 1848." And who was Benjamin Cummins? He was the inventor of circular saws now in use in this country and in Europe. Nearly sixty years ago, at Burtonville, N. Y., near Amsterdam, this man hammered out, at his own blacksmith's anvil, the first circular saw known to mankind. He was a noted pioneer in Michigan, a first cousin to one of the presidents of the United States, a slave owner in New York state, a leading mason in the days of Morgan, and at whose table the very elite of the then great state of New York feasted and drank freely of his choice liquors and wines. A vessel owner on the North river before the days of steamboats, a captain in the war of 1812, where, after having three horses shot from under him, with one stroke of his sword he brought his superior officer to the ground for an insult, and because he was a traitor and a coward, and after having been court-martialed, instead of having been shot he was appointed a colonel in his place. And in this ing made available and Canada is lowly grave are the ashes of the man the loser .- St. John Telegraph.

who, nearly seventy years ago, at Albany, New York, took up and moved bodily a large block of brick buildings, and to the then wonder and astonishment of the world, constructed a mile and a half of the Erie canal through a bed of rock, and who also built, per contract, those first low bridges over the same. He also aided in the construction of the first ten miles of railroad built in the United States, and founded both the villages of Esperence and Burtonville, on the old Schoharie, near Amsterdam. Now, therefore, if any one should feel inclined to erect a monument to the inventor of the circular saw they will know exactly where to erect it, and it would not be in Vermont either. The study and aim of this man's life appeared to be to accomplish that which no others could accomplish-and when the object sought was secured, or overcome, he passed it as quietly by as he would the pebbles on the sea shore. He was twice married, and the father of twenty-two children; the last wife is still surviving him, and his posterity are scattered over the entire northwest, he having emigrated to Michigan in 1831, when the state was a wilderness; therefore his life was not a failure.

Pine lumber is now not over plentiful in Western New Brunswick, but in the east and on the North Shore it exists in unlimited quantity. informant, who said that fifty million feet of pine lumber could be got out annually from the small harbors of the north, writes us to say that he might as well have said one hundred million or one hundred and fifty million feet, for the supply of lumber available is practically inexhaustible. Yet the want of the Baie Verte canal prevents the resources of this vast and productive region from be-

STANDARD LUMBER.

From the Boston Lumber Trade.

There is no complaint more general-we might with propriety, perhaps, well say universal—among manufacturers of lumber than in reference to inspection or survey. Their merchandise is rated, they say, too low and the returns to them are, consequently, not what they might fairly expect and claim. We are not prepared to say that there is not in many cases too much ground for this complaint. In this locality, it is claimed by those who ought to know, that, under the operation of the Massachusetts law and its administration in this district, the inspection bears more heavily on the interest of the manufacturers than is true of the inspection in any other district or point of manufacture or sale throughout the country. Wherever there are interests so conflicting, as exist in this case, there will of necessity occur difference of opinion and often dissatisfaction for which there is really no occasion. In this connection, it may be proper to say that the disappointment of the manufacturer may arise from his own methods of manufacture, resulting both in lower ratings and a less salable quality than should have been secured from timber, of such size and quality before it was sawed. By want of proper adjustment, or of sufficient skill and attention on the part of the operator, there will be frequently a variation of an eighth of an inch in thickness from that called for by the schedule, so that either it will not plane up to the standard thickness called for, or will necessitate waste or extra labor in working it down. It not unfrequently even occurs that the same piece of board will vary in thickness, by nearly or quite an eighth of an inch between the two ends. There

prominent operator, "there is a science in the manufacture of lumber" as truly as in that of many articles less bulky and of much finer texture. This science, as he assured us, was thoroughly understood by the lumbermen of one locality, partially so by that of another, and quite ignored by that of a third. Another large commission merchant stated to us that, within a few years, the style of manufacture of a whole region had been so modified and improved that, while previously the lumber had stood very low in the estimation of purchasers and could hardly be sold at all, it now stood well, and that this marked, and to the manufacturers very profitable improvement, had been secured by the directing their attention particularly to "style," he, with the operator previously quoted, averring that the term "style" is applicable to this as to many other kinds of manufacture to which the term might seem more appropriate.

Another matter, somewhat kindred to that just referred to, is the special want of a particular market. For example the demands of the New York and of the Boston market are not the same, and what would be adapted to one and would sell readily, in an ordinary season in one, would in a corresponding season, find no demand in the other. The manufacturer should, of course, be acquainted with the special demand of each, and prepared to adapt the quality and style of his production to the wants of the locality in which he seeks a market.

Our conclusion from the above is that, while it is for the interest of manufacturers of lumber to seek by concerted action for the necessary modification of the inspection laws of the various states as soon as this may be secured, and such checks on the administrations of the laws as may are other respects, also, in which a be needed, they should individually careless method of manufacture may bring the quality of their production very much depreciate the value of to the highest standard of which the lumber. To use the expression of a material on which they work is capable. For this, as we have illustrated in another article on this page, they will find that it is their true interest to employ the most skillful men attainable, and the highest wages will be a judicious investment. It should be their aim to thoroughly train workmen, from boys up, in the most careful and thorough habits so as to supply the want which must exist, if the policy of first-class workmanship is to be everywhere adopted.

We have only one more suggestion to make on this general subject of the standard of lumber. It seems to us that one single check on the administration of inspection laws, in the hands of surveyors, may properly be demanded. It is this, that at the growing. same time that the number of feet in marked upon it, a figure, letter or other device, indicating the grade or quality, should also be marked upon it. The result would be that the dealer would not be able, under an inspection, paid for and possibly influenced by himself, to purchase lumber as refuse and to sell it as merchantable. This would, in a measure, remove the temptation to undue influence in the inspection to the detriment of the manufacturer. An and is found in its native country illustration of the present possibility of wrong done to somebody occurred in this district. Of 100,000 feet of 2 inch spruce plank, 16,000 feet were classed as refuse, having been purlumber wharves. A party, who knew was still in possession of the purchaser, and wished to obtain 2000 supply himself from this lot, but was told that they had no refuse two inch refuse lumber as merchantable. Such a transaction would not be possible, dise should be adopted.

THE TREE THAT DESTROYS MALARIA.

From the San Francisco Bulletin.

The eucalyptus globulus, or Australian gum tree, is favorably known to all residents of California, where probably not less than 1,000,000 trees are planted. In this city, in front of handsome residences, you will find it with its magnificent drooping branches making an effective and graceful shade tree. In Oakland the broad avenues are lined with them. encalvotus forests are planted in the. country surrounding Oakland, and in fact, in every county of this state where the cold weather will permit it to live, the eucalyptus will be found

The wonderful properties of this a plank or other piece of lumber is tree have only within the past few years been discovered and appreciated. It is justly claimed that when the tree flourishes in low, marshy, and feverish districts, all miasma will cease. It destroys the malarial element in any atmosphere where it grows, and is a great absorbent of moisture, draining the subsoil almost as thoroughly as a regular system of piping.

The eucalyptus is an evergreen, (Tasmania) in boundless forests, both on the hillside and in the lowlands, under extremes of climates, both as to heat and cold, ranging from 130 deg. to 20 deg. Fahrenheit. Whether chased by a dealer on one of our it will endure a greater degree of cold we think has as yet been undethat the plank so classed as refuse termined. It is, however, worthy a trial.

Its remarkably rapid growth is a feet at a low price, went expecting to matter of much surprise, attaining, as it does, a maximum height of about three hundred feet, with a cirspruce plank. Either the inspection cumference of from thirty to fifty was wrong, or they intended to sell feet. For timber and fuel it is exceedingly useful, being hard and easily worked, and very serviceable if the above suggestion, which only for such purposes as the keels of vescorresponds to the practice in the in- sels, bridges, etc., where strength spection of other kinds of merchan- and durability are essential. It is estimated that from \$4,000,000 to

exported annually from Australia.

The leaves of this tree are of a dark bluish color, about ten inches long, an inch wide, thin and oddly twisted. They exhale a strong camphor-like odor, quite agreeable and pleasant, which, with the large absorption of water by the roots, cause the beneficial influence of the tree. It bears a small white flower, having no odor.

In consequence of its anti-febrile qualities, the English government has planted it extensively in the East Indies and Africa, in fever districts, with the most satisfactory results. In France, Cuba, Spain, Mexico, and many other places where malaria. fever, ague, and other pestilential diseases prevailed, the eucalypti have also been planted. The wonderful properties of this tree have been discussed by many scientific institutions in Europe. In the Academy of Sciences in this city its medical and anti-miasmatic qualities have received considerable attention. Dr. Pigne Dupuytren testified before that academy of the virtues of the eucalyptus, and stated that he and Dr. D'Olivera had tested it in the French hospital. In the garden surrounding this hospital a large number of the trees are planted for sanitary purposes. It had been found efficacious in the treatment of affections of the larynx and of mucous membrane in carefully Experiments, general. made, have proved that in a medical preparation it cures cases of intermittent fever, against which quinine alone proves powerless. It is also valuable as a disinfectant.

In Algeria its cultivation was undertaken on a large scale. Some 13,000 eucalypti were planted in an extremely pestilential and unhealthy section, where fever prevailed to a great extent every year. During the fourth year of their growth, at the time when the fever season used to set in, not a single ease of fever occurred, yet the trees were only nine

\$5,000,000 in value of this timber is reported free from its unwelcome visitations. In the vicinity of Constantinople, another fever spot, marshy and sickly, the whole ground was dried up by 14,000 of these trees. In Cuba, marsh diseases are rapidly disappearing upon the introduction of this tree. A railway station in the department of the Var, France, was so pestilential that the officials could not remain there longer than a year. Forty of these trees were planted, and the unhealthy condition of the place was changed.

Two miles from Haywards, in this state, the surveyor general planted two groves of the eucalyptus, one of about ninety acres and the other seventy acres, the whole comprising 150,000 trees. They are now only about five years old, yet many of the trees are forty to fifty feet high, the whole making a most extensive and beautiful forest, for fuel and timber purposes being worth thousands of

dollars.

EXPORT DUTY ON SAW LOGS.

The special committee of the house of commons, of the Dominion of Canada, charged with enquiring into the working of the export duty upon logs, shingle-bolts, and stave-bolts, has made the following report:

That the export duty upon logs, shingle-bolts, and stave-bolts, imposed under schedule F of the tariff act of 1868, cap. 44 of 31 Vic. is a tax upon settlers and owners of timber, who are prevented by its operation from securing the full advantage of the best market.

That the export duty, while reducing the market value of logs and bolts for the benefit of mill owners, does not promote the manufacture of lumber, shingles, and staves at the principal Lake Erie ports and at many other points in Canada.

That a large proportion of the export of pine and oak logs as long feet high. Since then this place is timber enters into the same class of 18

18 18

18

Gold.

consumption as does the square pine and square oak export of Canada.

That the exporters of round pine and oak from Lake Erie ports compete in American markets with Michigan timber dealers, to whom the Canadian export duty affords a considerable protection.

That since the imposition of the export duty a large amount of capital embarked in the round timber trade has been withdrawn from Canada and invested in Michigan.

RECIPROCITY AND THE LUMBER TRADE.

Comparison of Importations and Prices During and Since the Last Treaty Between the British Province and the United States.

IMPORTATIONS UNDER THE TREATY.

1854.	Total imports		\$599,746
1855.			1,096,761
1856.			2,832,922
1857.	44		2,585,181
1858.	- 66		2,931,886
1859.	66		2.937,573
1860.	44		3,416,481
1861.	46		3,288,796
1862.	66		2,527,658
1863.	"		3,018,196
1864.	61		4,511,419
1865.	46		4,515,625
1866.	"	***************************************	5,003,040

Average annual importation for 13 years \$3,020,202

1867.	Total imports	 \$6,437,860
1868.	"	 6.727.000
1869.	44	 7,208,446
1870.	66	 8,670,792
1871.	**	 8,264,837
1872.	**	 8,410,917
1873.	"	 11,134,956
		 PEC OSA 704

Average annual importation for 7 years \$8,122,108

PRICE LIST OF CLEAR PINE LUMBER IN TORONTO.

UNDER THE TREATY.

1857.	Price per	1.000	feet\$11 00
1858.	"	40	11 50
1859.	46	•6	12 00
1860.	**	16	11 50
1861.	46	46	11 00
1862.	46	46	11 78
1863.	"	**	
1864.	"	66	14 50
1865.	44	**	13 50
1866	• 6	61	20 00

AFTER THE TREATY EXPIRED.	ER THE TREATY EXPIRED	
---------------------------	-----------------------	--

1867.	Drigo no	- 1 000 f	eet\$	21	50
1863.	Fince pe	1,000 1		21	50
1869.	44	"		21	00
1870.	46	**		21	00
1871.	**	"		22	00
1872.	**	46		24	00
1873.	**	**		26	00

PRICE LIST OF SAME LUMBER IN PORT-LAND, MAINE.

		UNDER THE	TREATY.
			U. S. Currency.
1857.	Price per	1,000 feet.	\$26 00
1858.		**	21 00
1859.	66	**	28 00
1860.	46	46	
1861.	** .	66	39 00
1862.	66	**	32 00
1863.	66	**	39 00
1864.	**	**	50 00
1865.	66 -	66	50 '0
1866.	46	"	50 00
	1		NAME BADIDED

e per 1,000 feet....

Drice net	-1.000 f	eet\$50	U
file per	14		U
"	**	50	U
66	46	52	U
**	**		U
**	66		U
**	66	55	0

RAPIDITY OF GRAND RAPIDS, WIS.

A correspondent of the Oshkosh Times describes Grand Rapids, Wis., in this fashion:

This city has suffered considerably by fire lately, but the "waste places" are fast being covered with finer and more substantial structures. streets have a business look to them and a good degree of activity seems to pervade all departments of trade and traffic. Three hotels are full of There is strangers and guests. scarcely a house to rent in the city, real estate corner lots are held at moderate figures, taxes are not high, the people are friendly and courteous to strangers, they have good schools and churches. So all things considered, Grand Rapids with her two railroads, the Wisconsin Valley railroad and the Green Bay & Marinette railroad, is a prosperous and desirable place. For the business of manufacturing she has perhaps no superior, having water power enough to run a hundred water wheels.

The Lumberman's Gazette, our enterprising contemporary on the east shore of Lake Michigan, has assumed the form of a large eight-page weekly and instituted many marked improvements. We shall continue to be proud of it, notwithstanding its prosperity, so long as it gives those engaged in the lumber trade such sensible advice as this:

Among the lumber manufacturers there is and has been for some time, a difficulty which must sooner or later be corrected, and the sooner the better, perhaps. There are too many of them doing business on an almost exclusive credit system, and others who have been in the habit of receiving very heavy lines of credit, considering the extent of their business. The banks are inclined to curtail those credits, and unless sales of lumber are made promptly, and for cash to meet current expenses, there is a cramped condition for the manufacturer. Whether or not the banks are as accommodating as they might and ought to be, is a question we suggest for their consideration, but we do insist that the business in lumber should be reduced to a proper and legitimate basis, instead of carried on after the inflated fashion of the past few years. For the present year there is, or will be, a demand for every foot of good lumber manufactured in America, and at prices which will leave a reasonable margin for the manufacturer. Courage in the face of facts, courage to meet any depressing influence which may arise, or which may now exist, courage to limit business to the means employed, and courage to abandon the complaining spirit, will do more for the health of trade and commerce than any imaginary results of legislation affecting currency, whichever way an increase in the circulating medium might affect the country.

A correspondent of the Fond du Lac (Wis.) Commonwealth, gives the following information about Texas:

Texas is well supplied with streams of living water, and they comprise some of the most magnificent rivers in the world, many of them navigable for steamboats and other large crafts, for hundreds of miles, go coursing on their way through the state to the great Gulf. Commencing with the Red River, which forms the northern boundary of the state, we have the Sabine, Trinity, Brazos, Colorado, Gaudalupe, Nueces and the Rio-Grande, which forms the southern and south-western boundary, with their innumerable tributaries, constituting at once the grandest irrigating and drainage system in the world, and furnishing a never failing supply of the best of water for stock and other purposes. Good living well water can be obtained in most parts of the state at a depth of from fourteen to fifty feet, while bright, sparkling springs of that health-giving beverage come bubbling up through the bosom of mother earth, or trickling down the sides of some bluff as if to say, man need not thirst or fly to any subtle, soul-destroying substi-Nearly all tute of art, for relief. these water courses are lined with a belt of timber extending from a few rods to six or eight miles in width, and large groves embracing thousands of acres of excellent timber for building and other purposes are found in the interior prairies, even in the poorest timbered portion of the state, which is the western counties. The eastern counties are said to be unsurpassed for the abundance and excellent quality of their timber. The principal varieties are pine, cypress, cedar, black walnut, white cak, elm, ash, hickory, pecan, mesquit and bois d'arc.

Subscribe for the LUMBERMAN.

LUMBER TRADE AND MANUFACTURES OF ZANES-VILLE. OHIO.

From Mr. E. F. Taylor's annual report of the Zanesville Board of Trade, we take the following description of the lumber interests of that city:

Timber-The forests which originally covered the territory of Muskingum county were very dense, and the trees of the largest growth. Nearly all the varieties of timber known to the forests of this latitude were here found. Here were numerous varieties of oak and hickory, yellow and white poplar, black and white walnut, the ash, maple, sugar tree, beech, sycamore, chestnut, buckeye, wild cherry, common and slippery elm, gum, honey and common locust and dogwood. These varieties constitute the principal forest timber. The wild plum, crab and thorn apple, persimmon, june or service berry, wild grape, and other varieties of wild fruits are abundant. About onethird of the entire area of the county still remains wood or timber land, and among the still existing timber can be found all the varieties above

Door and Sash Factories. - Another important industry of Zanesville is its door and sash factories. In these factories are not made doors and sash merely, but window frames and blinds, flooring and general furnishings, in fact everything connected with the department of carpentery. kind in the city, in all the machinery quality of the work, its finish, style and durability, is fully up to the standard adopted in the largest cities. Not for private residences merely, whatever is demanded. munities. filled for Zanesville possesses facilities for the successful prosecution of this branch cheap, Zanesville can manufacture at

of industry peculiarly advantageous. Aside from the fact that the home supply of lumber is considerable in amount, the city is accessible by rail and river navigation to the extensive forests of West Virginia, where the supply of soft poplar is inexhaustible, and has the advantage of canal and railroad for transportation of pine lumber from the forests of Michigan and Canada. There are few points where lumber and material for finishing buildings can be had more cheaply and in greater variety than here. The market for these manufactured articles is not dependent merely on the home demand, but is found in the towns along the different lines of railroad here converging, and also the canal and river.

Furniture.-To the manufacture of furniture here little attention has hitherto been paid. There is at this time, however, manifest a rapidly increasing interest in this business, and the indications are that at a not distant day it will be considered one of the important industries of Zanesville. The fact that steam power is here so cheap, and that lumber of every variety employed in the manufacture of furniture, pine, white and yellow poplar, black and white walnut, oak, wild cherry, maple and other woods, can here be supplied so cheaply and readily, has had the effect recently to impart to this business an unwonted stimulus. are now several quite extensive furniture establishments in the city, and the styles of furniture manufactured, parlor and chamber sets, drawing-There are six establishments of the room and office furniture, have, on account of their elegant finish, comis driven by steam power, and the manded general attention, and secured for their proprietors sales in eastern and western cities. Parlor sets of the richest and most elegant designs have been ordered from but for offices, churches and public Zanesville shops to furnish the manstructures of all kinds, are orders sions of the wealthy in distant com-

With lumber and transportation

which the house or the farm may re- and expressed the hope that it quire. Whatever of furniture or agricultural implements may be called up;" that people were bound in the for or ordered may here be met. It future as in the past to use lumber. can and should manufacture every- He likewise thought that the great thing from a chair to a piano, from a hand rake to a reaper, from a wagon to a rail car.

SECOND ANNUAL MEETING OF THE SOUTHERN LUMBER AND TIMBER ASSOCIATION.

The convention assembled at 11 o'clock in the director's room of the bank of New Hanover. J. A. Kingsley, Esq., president, not having arrived, the meeting was opened by the 1st vice president, Edward Kidder, Esq., who occupied the chair. On motion of Mr. O. G. Parsley, Sr., Capt. W. A. Cumming was appointed

temporary secretary.

The following gentlemen were present: Geo. F. Drew, Ellaville, Fla.; Wm. H. Gray and Alex. Wallace, Jacksonville, Fla.; E. Kidder, Cowan Mills; Jas. H. Chadbourn, Clarendon Mills; Capt. W. A. Cumming and Samuel Northrop, Wilmington Mills; O. G. Parsley, Sr., now adjourn to meet in Jacksonville, Hilton Mills; Jno. Colville, Harrison Mills: L. H. Bowden, inspector and dealer in timber, Wilmington, N. C.

Mr. Kidder stated that there were but few delegates present as yet, but expressed the hope that there would be a full attendance on to-morrow's

session.

Mr. Drew being called upon by the chair, said that he was glad to be here and to have formed the acquaintance of the mill owners of this city and to learn from an interchange of opinions among those who had so much experience in the business, what must of necessity prove advantageous to each one.

The gentlemen then indulged in an informal conversation upon interesting and general topics; the opinion being expressed by Mr. Kidder winter upon the saw mill interest,

a profit every article of wood work yet he had known such times before, would before long begin to "look interests in that direction lay further south, owing to the vastness of the forests and the low price of timber.

Mr. Drew said that while he must acknowledge the advantages as stated by Mr. Kidder, yet he thought the cheaper rates from this point

counterbalanced them.

Mr. Chadbourn asked what were

the rates from Jacksonville,

Mr. Drew said \$10 to \$10 50 per M to New York, \$11 per M to Boston, and \$12 to Maine.

After an invitation from the gentlemen of this city to the delegates from other points to visit their mills,

Resolved, That the thanks of this meeting be and they are hereby tendered to the president of the bank of New Hanover for the use of his spacious and elegant room for the place of meeting.

Resolved, That this meeting do Fla., on the first Thursday in February, 1875 .- Wilmington, N. C., Star,

May 28.

THE ASHLAND LUMBER COMPANY.

This company is now prepared to fill all orders for lumber, dimension stuff, square timber, and bill lumber of every description. Their mill will start up with a full complement of hands about the 1st prox., and will make short work with the fine stock of logs now on hand-about a million and a half feet. The mill is new, contains all the latest improved machinery, and has a capacity of 40,-000 feet a day. They also manufacture shingles, lath and pickets of a superior quality. The company has now on hand at their yard about one that although this had been a hard million feet of seasoned lumber of almost every variety, including first dressed flooring, ceiling, &c.

Mr. E. H. Moore, in the management its being passed in its present shape of the business, and as he is an old and experienced lumberman, parties desiring lumber will find no difficulty in transacting business with him. We are glad to notice the advance of this enterprising company, as it is the pioneer manufacturing establishment of our young city, (that is to be), and we bespeak for Mr. Sutherland a lively business with our neighboring towns and the mining districts on the lake. We ask that the Ashland Lumber Company be given a fair trial. -Ashland Press.

LEGALIZING ROBBERY OF LUMBERMEN.

The timely notice of the bill being introduced by Mr. David Mills has aroused the lumbermen to the danger which threatened them if it became law. We do not desire to assert that Mr. Mills has any personal interest in this meaure, but suspicious people may insinuate that some of Mr. Mills' acquaintances know where there is a good plant of sunken oak which could be raised with very great profit if the parties who did so could claim it legally. The Chaudiere lumbermen have thousands of pieces of timber sunk in different parts of the Ottawa, where it is just as safe as it would be in their own yards until it is wanted; but if Mr. Mills' bill to legalize the robbery of lumbermen is passed, no more timber can be con-If Mr. Mills is honest sidered safe. in his desire to have sunken timber removed from navigable streams, he would ask the government to introduce a measure by which the owners of such timber can be notified that unless they remove it, it will be raised at public expense and sold to the highest bidder, the balance of the proceeds of such sale, after the exto the person who owned the timber. lowing day, he bought the identical

class clear stuff and finishing stock, Messrs. Bronson, Baldwin and Perley were making inquires after the bill Mr. W. R. Sutherland succeeds this morning, to prevent, if possible, -Ottawa Citizen.

MIDDLE-MEN IN THE TIMBER TRADE.

One of our technical contemporaries has some very sensible remarks on a subject which will be interesting to a large body of our readers: The London timber trade is quite distinct from that of the provinces, and only those who know its numerous "wheels within wheels" can appreciate its movements. Take, for example, Hull. If you want to buy a parcel of wood there you go to the merchant of your selection, and, failing to make a bargan, proceed to another; but in London we have drifted (by force of circumstances, perhaps) into quite a different style of doing business, and one which goes far to limit the number of such large firms as still flourish, and are the backbone of more than one outport.

It is not generally known that foreign houses often sell through brokers here, and positively let the consumer have, say £200 or £300 worth, at a trifle per standard beyoud the price a cargo of the same goods would be invoiced to a merchant. This makes it cheaper to buy at sales by auction, if it is a matter of no consequence to buy a larger quantity than may really be wanted at the time.

The writer of this article is responsible for the truth of the following: Wishing to buy from 300 to 500 squares of flooring, he applied to the agent of a foreign house, who asked him a price he did not feel justified in giving, and which he was assured was the very lowest price that could be entertained, and that for cash less 21 per cent. Attendpenses were deducted, to be refunded ing the Wednesday's sale on the folgoods at 6d. per square less, and with the advantage of six months credit.

Although the sales are fairly conducted, it is a question whether the timber market in London would not be in a healthier state if trade flowed through the ordinary channels. Look through the "Postoffice Directory," and point out how many of the London timber merchants are importers of their own wood. It only pays large firms to do so, because they can, by negotiation, manage to undersell the brokers occasionally, but men of lesser capital have no chance whatever. What is wanted in the London market is more competition with the foreign houses. seems a paradox, but it is true. So long as trade flows through certain channels (or principally so), so long there will be some sort of a monopoly, and prices will be regulated, not by open competition, but by the wishes of a select few. Now why should we not import our own wood? If not able to take a small cargo, there are plenty of opportunities for even twenty or thirty standards be-Some large houses do ing sent. this already to a small extent, but the time is not far distant when it will be quite a common event. At present some foreign houses would make it a point of honor not to supply goods to the customers of the English market at any price whatever, but it must be remembered that before the railway system came into operation the English merchant would not sell to a country builder unless on similar terms to those of the local merchant. Now, however, both may buy on the same terms, and the tendency of the day is to extend this movement, and to bring the actual consumer of wood into personal relations with the actual producer. In short, "middle-men" are dying out .- The Furniture Gazette, London.

Advertise in the LUMBERMAN.

WHAT IS HURTING CHICAGO'S REPUTATION.

From the Northwestern Lumberman.

It is about time the senseless notions which prevail in some quarters, concerning the lumber market of this city, are either done away with, or so thoroughly ventilated as to cause their reaction upon those who promulgate them, and whose ignorance or willful meanness are their sole cause. We very often hear the expression from outsiders, "Your Chicago market is in very bad odor abroad, it is impossible to obtain fair prices or fair play there." This not unfrequently comes from men who are shipping their lumber directly upon this market for It is true that low prices have prevailed here for two or three seasons. That less prices are now being realized here than in almost any market in the country. But what is the Invariably, just what the present difficulty is-the crowding of inferior, almost worthless, grades of lumber upon this market by manufacturers from these same sections from whence come the libelous assertions! An impartial observer to have watched the state of our market during the present season, would be tempted to wonder greatly that prices have been as well sustained as they have, would sometimes wonder that the coarse, common stuff, which frequently arrives at our docks, does not lie there until rotten with age, for want of buyers. If our dealers have consignments crowded upon them to such an extent as to fairly glut the market, is it any wonder that it becomes lifeless under the over pressure? The cargoes must be sold, as the dealer cannot take the lumber from the vessel and hold it for better figures, the craft must return for another load to be put through the same process!

The remarks of our valued correspondent from Albany upon commission dealing are exceedingly well timed, and in a measure might apply to this market. There is one simple proposition which covers the whole

things is to be realized, at this or any millions per year. From statistics other point, the movement must be deemed reliable, it is believed that inaugurated by the manufacturers, the amount of capital invested in who, sooner or later must conform to this branch of manufactures in this the laws of supply and demand.

THE SCOTCH TIMBER TRADE.

At a meeting, lately held in Greenock, the rules of an association to be called the Scottish Timber Carrying Trade Association were agreed Directors were appointed to represent firms in Greenock, Port Glasgow, Leith, and Aberdeen; and Messrs. Alexander Ferguson and D. MacDonald, Greenock, were appointed chairman and secretary respectively. The following alterations on the charter-party were agreed to, viz: That freight be paid free from discount in equal instalments on ship's arrival, on completion of discharge, and fourteen days thereafter; that cargo be brought to and taken from alongside the ship at ports of loading and discharge at merchant's risk and expense; that full freight be charged for sawn timber from pitch pine ports; that hardwood or red pine discharged over the stipulated quantity pay 20 per cent. extra freight, and that broken stowage be charged for, but at reduced rates. The secretary was instructed to take action in reference to rates of towage and pilotage in the St. Lawrence, and to endeavor to get the latter reduced in all cases where vessels are towed to and from Quebec. The directors were authorized to watch over board of trade interference .-The London Building News.

But few persons are aware of the the manufacture of doors and winthe state of New York, exceeds 30,- favorably effect the lumber business

ground, i. e., if a better state of 000 per day, or not far from nine country cannot fall short of \$40,000,-000.

A NEW ENTERPRISE AT WILMINGTON, N. C.

A sash and blind factory is to be established at Wilmington, N. C. The machinery is now being put in place and the factory will be in operation in about two weeks. Mr. Wm. Dykes, of Tarora, Illinois, where he carried on the business for about ten years, is at the head of this enterprise and will conduct its business operations. The manufactory is expected to turn out sash, doors, blinds, mouldings, stair rails, brackets. balusters, fancy scroll work, circular or irregular mouldings, window and door frames, casings, etc.—Boston Lumber Trade.

SAWING ON THE AHNAPEE

The Advocate says that the mill of Youngs & Fetzer, at Forestville, is doing a good business. It is cutting out pine shingles, hardwood lumber, and a small quantity of pine lumber. The shingles are shipped to Chicago and the hardwood lumber to Chicago and Racine, while the pine lumber is stacked up and sold for home consumption. The mill started up last January and will run until the fall when it will shut down for a short time and start up again in December. During last winter the mill did a large amount of custom sawing, some of it for parties living at points from 10 to 18 miles distant. magnitude and perfection to which 500,000 feet of lumber was sawed for farmers in the Belgian Settledow blinds by machinery has arrived ment, which would indicate that conin the United States. It is stated by siderable building is contemplated those who profess to know, that the there. The dredging out of the number of doors alone made within mouth of the Ahnapee river will ber from 50 cents per thousand feet Chambersburg, Pa., and to Hagersto zero. There is one scow running town and Frederick, Md.: on the river from the saw mill to the mouth, that will carry forty-five cords of wood, and another has just been launched that will carry fifty cords. It is calculated that either of these scows are sufficiently strong and sea worthy to be rigged up as sailing crafts and run to Milwaukee.

LUMBER TRANSPORTATION.

Whilst the agitation for cheap transportation goes bravely on in the western states, there seems to be nothing of importance accomplished here in that direction, save, perhaps, the steady growth of the anti-monopoly feeling, among our people. There are, however, especial features the attention of all classes as will be readily inferred from what may fol-We wish to speak particularly, here, of the transportation of lumber, the manufacturing staple of this secto merely raising a few points concerning it, for consideration. That writer of the communication stated that he spake with authority.

Whether the charges are in excess when compared with other charges, is a question worthy of examination. In regard to this, we have been shown a letter from a gentleman extensively engaged in lumber operaprobably thoroughly informed on the other articles transported. subject. We quote as follows:

roads is daily becoming more manifest, and has seriously affected busifrom two to seven dollars per thoufrom Pennsylvania. Below are com- Register.

as it will reduce the pierage on lum- parative statements of cost, say to

PRICES DELIV	ERED.		
	Mich.	Williamsp't	
Plank, select and better	50	\$	57
Pickets	40		43
Flooring qual	32		33
Barr	24		27
Culls	18@20	21	@23

The foregoing are now ruling prices to all leading points between the west and Baltimore and Philadelphia, including the latter cities, while to New York and points on that line, a difference exists of \$10 a car more than at first named points. Pine joists 2x8, are delivered to various points at \$22 per M feet, which is only \$2 or \$3 per M more than hemlock costs, and can be used for

various purposes."

After detailing the variation in of the subject which are worthy of rates between some western and eastern dealers, he observes that some Williamsport parties are offering lumber at lower than established prices, statements here made indicate a lack of discrimination as to distion, and hope to confine this article tance of freighting and an undue taxation of our lumbermen in this section. Although the prices of some the charges of the railroad compan- kinds of lumber may be lower at the ies for shipping lumber are high place of manufacture in the west enough, must be evident from a com- than the prices of the same kinds of munication which appeared in the lumber are here, the wide disparity Register some months ago, since the of distances makes it clear that the freight upon our manufactures are disproportionately large. In other words, lumber shipped two hundred miles must be sold for considerable more per M feet to cover freights than the same kind of lumber shipped a thousand miles. The same principle that governs the tariffs on tions both east and west, and who is lumber applies to the freight on are matters for serious attention by "The suicidal policy of our rail- lumbermen and others as well. There appears to be something in the practices of transportation companies ness. The rates to many points are which needs reformation, and we so nearly equal that lumber costs think a thorough investigation and study of the subject will result in sand feet less from Michigan than some good. - Williamsport, Pa.,

THE MARKETS.

MILWAUKEE, July 11, 1874.

The slight revival of trade which characterized the Milwaukee lumber market during the fore part of June has suffered a relapse and the yards are again dull and iractive. No material change in prices are given in the market quotations, yet there is evidence that dealers are continually cutting prices. In all of the western markets were there is much competition the process of cutting prices is the bane of the lumber trade. Nothwithstanding the extreme low prices and small margin of profit, dealers seem to have an unusual desire to force sales and therefore to a greater extent than usual resort to the practice of underselling their competitors. The extreme low price of lumber to-day is more the result of this suicidal policy than of lack of demand or over supply of lumber. Lumbermen will appreciate the keenly when they realize that No. 1 box-boards may actually be bought in the Albany market to-day for \$13 per M. We quote yard rates follows:

Common					האות	
Joist and	Doards	10 hr 16	A	12	000	
Joist and	Scanting	, 12 by 10	10	18	000	
do	do	18 16	•••••	14	(10.60)	
do	do	20 16		15	00017	00
do	do	18 ft 20 ft 22 to 24	16	10	Or Cal	00
Fencing				12	uvgg.	
1st and 2d	l clear dr	essed sidi	ng	20	OU/a	
1st com.	do	do		20	0.0	
1st com. 2d com.	do	do	*****	16	UUQ.	
let com f	looring .			00	UU EL	
ad do	do -			40	UU ZZ	
2d do	do -			20	oola	
1at and 9	d clour h	oards		40	uu(a)	
0.4	do	do		35	UUVA	
Morrow or	alact finis	shing hoar	08	20	UJ(U)	
Wide sele	ct com				048	
Int and O	t clear 14	Z IL and	2 1nch	40	V-JUL.	
Wagan R	or Board	s		80	00435	00
A stook	do			35	000	
P do	do	•••••		25	uvial	
D do	do				1012	00
U do	labota			13	00(a)	
square p	CKets				@12	00
Flat pick	ets		•••••	2	50 a 2	75
Lath W	a pieces.			3	25(0)	9,97
A shingle	s, w m.			1	5.00 2	25
No. 1 de	o do .		•• •••••	15	000018	00
Timber,	18 to 22 1	1	•••••	18	Mag 25	00
Timber.	24 ft and	over	••••••	10	A CONTROL	VU

Chicago, Illinois.

Frem the Inter-Ocean, July 15.

The following table shows the movement of lumber, shingles, and lath for the periods named:

BECRIPTS.

Shingles. Lumber, Feet. No. 1.526.000 35,242,000 2,296,00 Last week ... Same week in 1873 37,899 000 10,758,000 3,182,00 5lnce Jan. 1, 1874.443,746,000 315,300,000 38,985,000 5ame time in 1773.459,201,000 243,804,000 39,550,000 SHIDMENTS

48	Lumber, Fect.	Shingles,	Lath,
Last week			
Same week in 1873.	16.228.000		
Since Jan 1 1874 5	280.445,000	200,078,000	18,352,000
Same time in 1873.	265,795,000	190,741,000	24,715,009

FREIGHTS-There has been no change of any importance to note in connection with this market. The offerings of vessels was large and in excess of the demand; rates ruling weak and easy, but not quotably lower.

Oconto	1	75
Manistee	1	62 16
manistee	1	50
Ludington	i	27 V
Muskegon	-	01 /2
Pentwater	1	31/2
White Lake	1	3, 72
Saugatuck	1	37 1/2
Grand Haven	1	37 %

In the yards trade was rather quiet throughout. Prices for joist, scantling, fencing and common boards, were 50 Shingles were dull and slow cents lower. sale at lower prices. The market closed steady at the following:

YARD PRICES.

First clear. 48 00@50 00 Third clear, 1 in 424 00 Third clear, thick 40 00@45 00 Clear flooring, 1st and 2d together, rough 38 00@40 00 Clear siding, 1st and 2d together 23 00@24 00 Flooring, second common, dressed 33 00@35 00 Flooring, second common, dressed 28 00@30 00 Wagon-box boards, 16 in and upward, select. 56 00@30 00 Select, 1-in 35 00@40 00 Select, thick 32 00@35 00 Stock boards, A 32 00@35 00 Common boards, 16 10 10 10 10 10 10 10 10 10 10 10 10 10	\$53,00@55,00	
Third clear, 1110	First clear\$53 00@55 00	
Third clear, thick	Second clear,	ĕ
Clear flooring, 1st and 2d together, 70 mgh. 1st and 2d together, 23 00@40 00 Clear siding, 1st and 2d together 23 00@24 00 Clear siding, 1st and 2d together 23 00@24 00 Flooring, first common, dressed. 28 00@30 00 Flooring, second common, dressed. 28 00@30 00 Flooring, second common, dressed. 28 00@30 00 Select, 1sin. 25 00 10 00 00 00 00 00 00 00 00 00 00 00	Third clear, 1 in	
Clear flooring, 1st and 2d together, 70 mgh. 1st and 2d together, 23 00@40 00 Clear siding, 1st and 2d together 23 00@24 00 Clear siding, 1st and 2d together 23 00@24 00 Flooring, first common, dressed. 28 00@30 00 Flooring, second common, dressed. 28 00@30 00 Flooring, second common, dressed. 28 00@30 00 Select, 1sin. 25 00 10 00 00 00 00 00 00 00 00 00 00 00	Third clear, thick 45 000 15 00	1
rough Clear siding, 1st and 2d together 23 00@24 00 Common sidung 18 00@20 00 Flooring, first common, dressed 28 00@30 00 Flooring, second common, dressed 28 00@30 00 Wagon-box boards, 16 in. and upward, select. 25 00@30 00 Select, thick 32 00@35 08 Select, thick 32 00@35 08 Stock boards, A 32 00@35 08 Stock boards, B 28 00@30 00 Common boards, 10 00@11 00 Joist, scantling, small timber, etc 16 feet and under 10 50@11 50 Fenoing 10 50@11 50 Floreing 10 50@11 50 Flore	Clear flooring, 1st and 2d together,	
18 00@20 00	rough	
Common sidung		
Flooring, first common, dressed	Common siding 18 00@20 00	
Flooring, second common, dressed 25 00@30 00 Wagon-box boards, 16 in. and upward, select. 35 00@40 08 Select, 1-in. 26 00@30 00 Select, thick. 32 00@35 08 Stock boards, A 22 00@35 00 Stock boards, B 28 00@30 00 Common boards 10 00@11 00 Joist, scantling, small timber, etc 16 feet and under 10 50@11 50 Fencing 10 50@11 50 10 50@11 50 Joist and scantling, 18 to 24 ft. 14 00@20 00 Pickets, square 12 00@30 00 Pickets, square 12 00 13 00 Cedar posts, 5 inch 20 00@ 10 00 00 00 00 00 00 00 00 00 00 00 00	Flooring first common, dressed 33 00(4,00 0)	
Wagon-box boards, 16 in. and upward, select. select. 1-10	Flooring second common dressed 20 00000 00	
Select	Waston-box hoards in in and upwaid.	
Select, 1-in. 26 000,33 08 Select, thick 32 000,35 08 Stock boards, A 32 000,35 08 Stock boards, B 28 000,30 00 Stock boards, B 28 000,30 00 Common boards, 10 00,211 00 Joist, scantling, small timber, etc 16 feet and under 10 500,211 50 Fencing 10 500,211 50 Joist and scantling, 18 to 24 ft. 14 000,20 00 Pickets, square 12 000,213 00 Pickets, flat 12 00 13 00 Cedar posts, 5 inch 20 000, (6 inch 25 00 (7 inch 30 00 (8 inch 35 00 Lath 22 50 Shingles—Sawed No. 1 2 25 2 50 Shingles—Sawed No. 1 1 256, 1 35 Shingles—Sawed No. 1 2 200,2312, Shingles on track are steady at \$2.756,300 for A	select	
Select, thick	Select 1-in 26 00@30 00	,
Stock boards, A 28 00@30 00	Salast thick	,
Stock boards, B 20 00230 00 00 00 00 00 00 00 00 00 00 00 00 0	Charle hoards A	,
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12 00@13 00 Pickets, square	Felicing	1
Pickets, square 12 00 13 00 Pickets, fist 15 60 18 00 Cedar posts, 5 inch 20 00@ "Tinch 35 00 1 35 00 1 35 inch 25 00 1 35 inch 35 00 1 35 inch 25 25 2 50 1 35 inch 20 25 2 50 1 35 inch 20 25 2 50 2 50 2 50 2 50 2 50 2 50		•
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" 7 inch		
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Shingles on track are steady at \$2.75@3.00 for A		ž
star, and \$1.25 for No. 1 sawed.	A at \$2 75@8 00 for	i
star, and \$1.25 for No. 1 sawed.	Shingles on track are steady at \$2.1000.00	
	star, and \$1.25 for No. 1 sawed.	

WHITE WOOD.

Box boards.....

Common

\$38 00

HARD	WOOD.
OAK. Plank, common. @ 25 Plank, clear	ASH. Wagon poles, each. 55 60c Flooring, 6-in dr'd and matched
matched 6	5 Axles, per pair 1 50
Plank 30 4	Basswood12 35
Flooring, 3 and 4	0 Eutternut25 60

Oshkosh, Wisconsin,

Oshkosh, July	9.	
Gammon hoards10 00		
Dimension hoards		
Flooring_clear, Fough		
2d clear, rough25 00		
clear, dressed		
2d clear, dressed	40	00
	**	00
Siding—clear, dressed 20 00 2d clear, dressed 15 00		
Scantling—12 to 16 ft	11	
7 1-10 10 to 16 ft		CO
Counting and Joists, 18 ft and upwards, 12 00	14	00
Shingles A		
No. 1 1 59		

Saginaw, Michigan.

From the Saginaw Courier, July 9. ROUGH LUMBER, CAR LOTS,

Three upper qualities.....

Select boards.....

Common	tring			11 00
No 1 floor	ring str	ins		25 00
Coarse C	ommon	d countling	19 to 18 ft.	10 00
Timber,	Joint at	in acancing	90 ft	12 00
do	do	ao	00 to 04 ft	18 00
do	do	ao	22 60 24 10.	12 00 18 00 1 75
Lath				
ROUGH	AND	DRESSED	LUMBER	AT YARDS
		ROUGH L	UMBER.	
_	100000	-Millon		\$35 0
Three up	per qu	anues	••••	12 0
Cull boa	rds			6 0
Scantlin	g, joist	t and timbe	r, 12 to 18 i	eet 10 0 eet 12 0
do	, ,	do do	18 to 22 1	eet 12 0
Lath			•••••	2 0
		DRESSED	LUMBER.	
		2		91 (
Siding 1	io. 1 cl	ear		21 (
" N	10. 2			18 (
66	No 9	select 6 in	ch	20

No. 2, select 6 inch...

Ceiling No. 1, clear	40	00
Ceiling No. 1, clear	30	00
gi td- a 1 side 7 to 90 in	40	UU
Clear boards, 8 1 side, 1 to 20 12.	30	00
No. 2	05	00
No 9 hounds select 7 to 20 in. sone side	20	vv
Common boards,	17	00

St. Louis, Missouri.

St. Louis, July 10.

Private advices from St. Louis, up to the time of going to press, de not indicate any recent change in the condition of the St. Louis market. Demand is reported fair but prices are unsatisfactory. The quantity of lumber in raft at different points on the Mississippi is much less than usual at this season of the year. Buyers are very cautious and do not seem to care about taking advantage of the present low prices; although large stocks could now be placed in the yards at rates which would soon result largely to the benefit of the dealers. Methudy & Meyer's latest report is as follows:

White pine in raft unchanged; demand fair, but prices are unsatisfactory, and some parties are piling in preference to selling at present rates. A lot of fair Wisconsin sold affoat at 14.75 and another lot of choice at \$23. We continue to quote Minneapolis and Chippewa afloat at \$13@15, and Wisconsin at \$14@22-good at \$16 (a)18. Lath sell on raft at 2.25(a) 2.50, and shingles at 3.50@3.60. At the depot and on levee, transactions were small; prices steady, with a limited demand for best qualities only. Trade at the yards dull, at unchanged rates.

We quote the range for depot and levee lots: Y. P. flooring-green at 22.50@24 and 12.50@14, dry do \$26@27 and \$14@ 16; yellow pine mill-run dimension at \$13 @14; poplar at \$15@18 for mill-run boards and strips-2d and clear do do at \$20@22, 3d rate \$11@13; black walnut \$20@25 for inferior, \$30@35 for common to fair, \$38@40 for good, and 42.50@45 for choice; oak at \$15@28; ash at \$20@ 27; hickory at \$27@35; sawed cedar timber at \$27@30—hewn at \$24@26; cedar posts at 22.50@27 and 11.50@12; walnut table legs at \$15@22 \$ set. Special orders filled at higher rates.

The Stillwater Gazette of June 24th says: One million feet Totogatic logs sold at \$12.50 per thousand feet on the stringers, for cash, being equivalent to \$13.25 or one thousand feet rafted and fitted for pilot. A fine raft of logs sold at \$11 to \$12, rafted and fitted. Sale of long logs at \$10 to \$10.50; also two rafts of short logs at \$9 to \$10.75 fitted and rafted.

It is conceded by those interested in the log drives that with the exception of about two million feet on Straight river, Pleases' loss on Clam, a small lot on Yelow, and possibly a portion of Getchell's Hay creeks logs, on the Upper Snake, the entire winter's cutting will all reach the boom. All St. Croix tributary logs, excepting upper Snake, will be in the boom this week. Upper Snake logs will doubtless be in the boom in the course of a week.

The quality of logs now in the boom are superior to any previous seasons, both as to size and quality. This is the opinion of our log men generally. The boom corporation are turning off logs at the rate of two and a half million feet per day.

Oswego, New York.

From the Oswego Pallendinne.

WHOLESALE MARKET.

Oswego, July 7, 1874.

The week just closing has been the dullest that we have been called upon to chronicle. Though our figures show a slight increase in sales over last week it should be mentioned that the sales of two

should be mentioned that the sales of two or three dealers have been comparatively large, while the balance have been all very small indeed. All of the yards are well supplied. We make no changes in prices but are inclined to think that all the sales made are not up to quotations.

For the V 1,516,725		Last Week. 1,511,307 ft.	Increase 5,418 ft
		RECEIPTS KY LAKE.	
For the V 3,956,908		Last Week. 9,906,815 1t.	Season to date 93,771,803 ft
1 2 1 4 2 1 5 1		MICHIGAN PINE.	
Three up	pers.		\$48@5
Clapboar	d stri	ps, 1st quality	48 5
***	66	24 "	18 2
		CANADA PINE.	
Three un			\$42@4
Diekinge	pers.		28 3
Common	•••••		
		nill run	
THEH BIGH	ng, n	elected	
	81		
	D	g, mill run	
	Biding	g, mili run	
14	"	selected	
	107000	box	
1%	"	mill run	24 8
1% "		se'ected	
1% "		box	
2 "	16	mill run	24 30
2 "	*	selected	38 43
2 "	46	hox	

1x10 sto	cks. 13	ft. ct	illed	22 26
1x10 sto	cks. 1	ft. ci	alls.	15 16
1x10 sto	cks. 1	ft. ci	ulled	28 26
				15 17
				1 22 26
				15 16
1x12 sto	cks. 1	ft. c	alled	1 23 26
Tx12 sto	cks. 1	ft. ci	ulls	15 17
1x 4 sto	cks c	ulled.		23 28
				23 28
				22 27
1 % x10 r	lank.	culls.		15 17
Inch str	ips. c	alled.		22 80
1¥ inch	strip	. cull	ed	22 30
1x1 % in	ch str	ips. c	ulls.	12 14
Ash. Ca	nada	inishi	ng.	lst quality 30 85
"	6	•6	-0,	common 18 20
Black a	sh			18 23
Black w	alnut			85 100
				12 14
Shingles	. pine	. 1st o	uali	tv. 18 inch 4 75 5 00
"	, "	1st	66	16 inch4 00 4 30
**	**	2d	44	16 inch 8 50 3 75
66	44	2d	66	18 inch 3 25 4 00
46	ceds	r 1st	"	18 inch4 50 4 60
"	66	2d	66	18 inch 2 20 2 50
Hemloc	k.	1st	66	18 inch 3 60
Spruce,		1st	"	18 inch 3 25
Mich n	ine sh	ingles	, bes	st quality 18 inch 5 75
Pickets	nine.	1st at	nalit	y, flat 14 15
**	244	2d	66	" 10 11
**	"	1st	46	
**	"	2d	66	" 10 11
Lath				2 00 2 15

Albany Lumber Market.

From the Albany Argus, July 7th.

The receipts by both canals show a large falling off in the quantity of lumber delivered since our last report; the decrease is principally in receipts by the Champlain, and may in part be attributed to the check on productions, of which we have already spoken. The week including the "Fourth" is always a broken one, the attendance of buyers has been light, with the exception of Wednesday and Thursday, when sales of several round lots were made on p. t., but understood to be below our quotations. The week closes rather quiet.

Freight on lumber from Oswego to Albany, \$3.12 \$\mathbb{H}\$ M; from Buffalo \$4.50 and

\$5.50 respectively.

An Ottawa dispatch shows a decrease in the shipments of lumber thence in June of some 7,000,000 feet; the number of American vessels freighting lumber from the Claudiere in June was 154, against 92 a year ago; of Canadian vessels 74, against 154; it will thus be seen that American boats are fast securing the lumber freighting business.

The Belleville [U. C.] Intelligencer says the trade is in an unsatisfactory condition; but little is being shipped hence, the United States markets giving no mar-

gins.

The shipments from Bay City for June were 48,000,000 feet, and in excess of those in June, 1873; the total shipments

thus far are 121,000,000 teet.

There is nothing new at Saginaw; the failure of the reciprocity treaty is received with favor; the reported sales are 1,300,000, feet, at \$6, \$12, \$35; 200,000 feet to Buffalo parties at the same figures; 1,000 000 to Buffalo parties, one half to be cut at \$5 50, \$11 and \$35, at 500,000 feet selects at \$7, \$13 and \$36.

The Oswego Commercial Times reports the receipts to July 1st as follows:

187495,927,000 feet 187389,182,000 feet 187272,486,000 feet 187197,006,000 feet	1879 87,128,000 1868 86,759,000	feet
187191,000,000 1001	1001 00,222,000	1000

At Chicago the reported receipts of lumber, by lake to the 30th of June were 372,033,000 feet against 388,989,000 feet the year previous; the shipments from January 1st, are 252,124,000 feet against 232,140,000 previous year.

The receipts at Albany by the Erie and Champlain canals during the first week of

July were:

Bds.&Sc'tl,g ft. Shingles M. Tim'r c ft. Staves, ibs. 1873..15,695,500 305 1874..10,416,800 422

Of the boards and scantlings received 7,498,300 feet were by the Erie, and 2, 917 500 feet by the Champlain caral.

The receipts at Albany by the Erie and Champlain canals from the opening of navigation to July 8th, were:

Bds.&8c'tl'g ft. Shingles M. Tim'r c ft. Staves, fbs. 1873. 101,858,500 1,009 1,185,800 1874. 129,990,500 4,144

River and eastern freights are quoted

as follows:		
To New York per M\$		1 2
To Bridgeport		20
To New Haven		2 0
To Providence		2 5
To Pawtucket		3 0
To Norwalk		1 7
To Hartford		27
To Middletown		2 2 2
To New London		2 7
To Philadelphya		4 0
To Baltimore		5 0
To Richmond, Va		5 0
To Boston, softwood		6 0
Te Boston, Hardwood		1000
The present current quotations	of	th

The present current quotations of the vards are:

	258	
	200	00
Ding fourths 30 m	53	
Dina sologie 90 m	248	ON
Pine, selects & m 98 no	25	00
Pine, good box # m	210	00
Pine, clab board strips	248	00
Pine, clau board strips	544	00
Pine, 10 inch plank, each	2	00
Dine to inch plank chila, each 20 006	LA IN	90
Pine, 10 inch boards, each 27 000	31	00
Pine, 10 man boards, cach	510	00
Pine, 10 inch board, culls, each 17 000	210	00
Pine. 10 inch boards, 16 ft, # m 26 906	228	00

Pine, 12 inch boards, 16 ft, # m	28	00@30	00-
Pine, 12 inch boards, 13 ft, # m	26	00@29	00-
Pine 1% inch siding, select, \$ m	42	00@45	00
Pine, 11 inch siding, common, # m		@18	00
Pine, 1 inch siding, selected, & m	40	00@43	00
Pine, 1 inch siding, common, # m	15	00@18	00
Spruce boards, each		(a)	15
Spruce plank, 1% inch, each		(a)	18
Spruce plank 2 inch, each		a.	28
Spruce, wall strips, each		(a)	12
Hemlock boords, each		@	15
Hemlock boards, 4x6, each		a.	34
Hemlock joists, 21/2 x4, each		(a)	14
Hemlock wall strips, 2x4, each		(a)	11
Hemlock plank, 2 inch, each		a.	32
Black Walnut, good, # m	75	00@85	00
Black Walnut % inch, # m	75	00@78	00
Black Walnut, % inch, # m	75	00@80	00-
Sycamore, 1 inch # m	33	00(4)35	00
Sycamore, % inch # m	30	00@22	00
White wood, chair plank, & m	65	00@68	00
White wood, 1 inch, and thick, & m	38	00 45	00
White wood, % inch, ₽ m	35	00@40	00
Ash good ap m	38	00a 43	00-
Ash, second quality, # m	25	00 @ 30	00
Oak. good, # m	38	00,0 45	00
Oak, second quality, # m	25	00@ 39	00
Oak, second quality, # m	60	00a 70	00
Cherry, common, & m	25	00(a3)	00
Birch, # m	25	00a 30	00
Beech, # m	20	00(a 25	00
Basswood, \$\mathfrak{P} m	22	00(a 25	00
Hickory, # m	40	00(a 45	00
Maple, ₩ m	22	00@30	00
Chestnut, & m	40	00(a)45	00
Shingles, shaved pine, & m		(a) 7	75
Shingles, do, 2d quality, # m		(a, 6	00
Shingles, extra sawed pine, & m	5	50a 5	75
Shingles, clear sawed pine, # m		(a, 4	50
Shingles, sawed 3d quality, & m	2	50a 2	75
Shingles, cedar, & m			25
Shingles, hemlock, # m		@ 3	00
Lath, hem'ock, Pm			00
Lath, spruce, & m			12
Lath, pine, Pm		a 2	50
		1 3000	

THE NEW.LAW.RELATING.TO: PATENTS!AND TRADE MARKS.

The new law relating to patents, trade marks, and copyrights, provides that no person shall maintain an action for the infringement of his copyright, unless he shall give notice thereof, by inserting in the several copies of every edition published, in the title page, immediately following, if it be a book, or if a map, chart, musical composition, print, cut, engraning, photograph, painting, drawing, chromo, statue, statuary or model, or design intended to be perfected and completed as a work of fine art, by inscribing upon some visible portion thereof, or of the substance on which the same shall be mounted, the following words: "Entered according to act of Congress, in the year —, by —, in the office of the Librarian of Congress at

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Rev. H. W. Beecher loves the tree planter and despises the woodman's ax. - Exchange.

That must be because his son went into the lumber business three or four years ago.

Examine the "Lumbermen's Register" at the end of this volume and report additions or corrections to the Wisconsin Lumberman Publishing Company, 64 Oneida street, Milwaukee, Wis.



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Old Files and Rasps re-cut, and warranted equal to
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trial Exhibition, at Buffalo, in 1869. je-ly

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Scale in Steam Boilers.

I will remove and prevent Scale in any Steam Boiler, and make no charge until the work is found satisfactory.

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OFFICE, Ground Floor, East Entrance, CITY HALL, MINNEAPOLIS. MINNESOTA.

Special attention given to paying taxes, procuring and perfecting titles to lands entered by HALF-BREED SCRIP. Soldiers' 80-Acre Claim and Warrants bought and sold. Personal application, under Chippewa Treaty, Feb. 22, 1855, to enter Land always on hand, by which I can enter Pine Lands in Minnesota at \$2.50 per acre.

Persons having numbers, or expecting such, will do well to give us a call or correspond.

Letters will receive prompt attention.

Also owners of Pine or other Land, who wish to dispose of the same, will find I am in a position to make speedy sales.

Choice Timber Land.

In Townships 158 to 160 inclusive, Range 50, situated between the St. Vincent Extension of the St. Paul and Pacific Railroad and the Red River of the North, on which latter there is constant traffic, and where the surrounding country is somewhat deficient in timber, I have 10,000 acres of land, first-class black loams and alluvial soil, surpassing any tract in the State for the production of wheat and farm produce. Specimens of the produce of this locality at the last State Fair took the first prizes. The above tract is heavily timbered with White and Burr Oak, averaging at least 4,000 feet select timber to the acre on which the government in adjoining tracts collects stumpage at \$3.00 per thousand feet. The lumber is not only in demand for local consumption, but finds a ready market in Pembina and the Province of Manitoba, where also timber is scarce, and to which there is water carriage.

Extra inducements to capitalists will be offered in the above lands for joint operations.

I have also for sale 1,120 acres in township 180, range 84 and 35. First quality Farming Lands, well timbered and prairie and well watered; near railroad. \$5.00 per acre.

Choice Pine Lands.

6,331 acres, on which stand 27,710,000 feet of choice lumber, all within four miles of landing, in tract
 160 acres in sec. 8.
 T. 187, R. 38

 240 acres in sec. 4, 18.
 T. 131, R. 30

 480 acres in sec. 10, 14, 24.
 T. 131, R. 81

 200 acres in sec. 18.
 T. 132, R. 30

Prices range from \$4,50 to \$12.50 per acre.

1,000 acres estimated to cut 5,000,000 feet of White Pine, in townships 129 and 130, range 32. Will besold cheap to close a partnership.

Have also several hundred acres that have been partly cut, some years ago, which at the prices asked

would be a good paying investment.

And several thousand acres of choice Pine Lands tributary to Duluth markets.

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Ex-Gov. Henry H. Sibley, St. Paul, Minn. Hon. C. E. Vanderburg, Judge 4th Judicial District, Minnesota.

Sparks, McPherson & Co., Bankers, Minneapolis.

Hon. E. M. Wilson, ex-member of Congress, Minne-

Hon. E. M. Wilson, ex-member of Congress, Minne-apolis, Minn.

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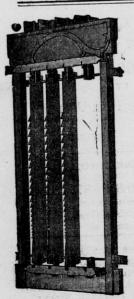
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Most Valuable Mill Property on the Wisconsin River.

This Mill adjoins the own plan of the city of Sevens Point, and wihin one and one-half miles of the city. Has one large double Rotary, capable of cutting fifty thousand ft. per day of eleven hours, with Gang Edger, Cutting-off Saws, etc. This Mill is new, with the latest improvements; was run only last summer. Also one Stock Gang, one Slabbing Gang, and Shingle, Lath and Picket Mill.

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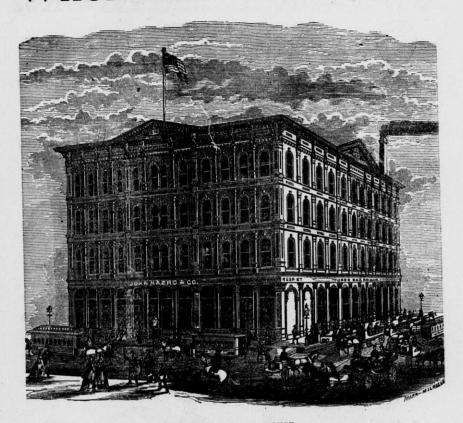
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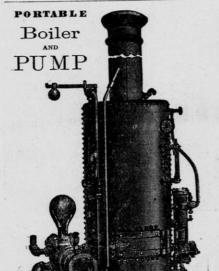


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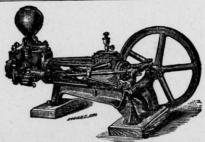


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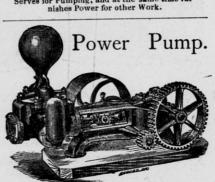
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North-12,30 A, M. | South-3.30 P. M.

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West Wis. Railway Trains leave:

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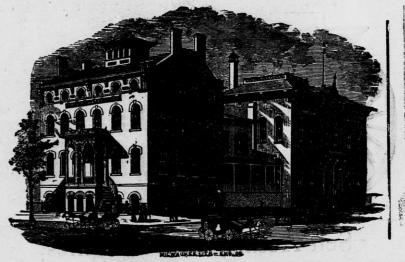
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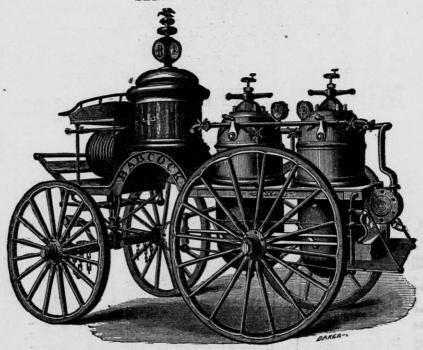
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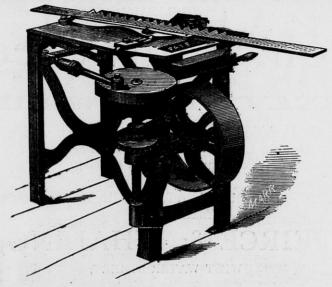
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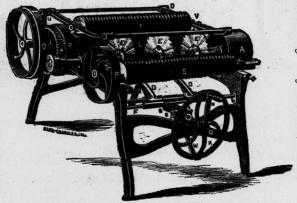
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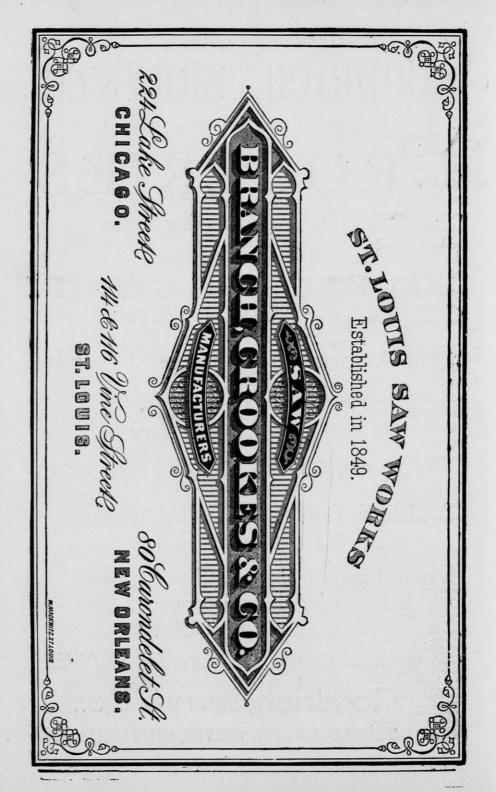
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LUMBERMEN'S REGISTER.

The Lumbermen's Register is a special feature of The Wisconsin Lumberman. We have devoted much time and labor in obtaining and classifying the names of the lumbering firms of Wisconsin, Michigan, Minnesota, Iowa, Nebraska, Missouri, Kansas and Chicago. The Register may yet be incomplete, but it is as perfect as we have been able to compile it up to the present date. We ask, now, that lumbermen send us any corrections or additions that will assist us in making the Register absolutely perfect, and that they will send us notice of new firms formed or old ones dissolved. We want the name of every reliable firm. Assist us in obtaining them. In our classification it will be noticed that in Missouri, Kansas and Nebraska, the term "saw mill" is used in many instances; the term refers to the local hard-wood mills. We have classed the manufacturers as manufacturers and dealers, because it is generally understood that saw-mill proprietors are at least wholesale dealers.

GENERAL CLASSIFICATION.

m and d	Manufacturers.
d	
s m	Shingle Manufacturers.
p m	
Sash, doors, &c.,	
	Stave Manufacturers.
	gger who sells his logs or has them sawed by custom

Our Register is more incomplete in reference to loggers than to any other class of lumbermen. That department will be perfected as rapidly as we can obtain the names.

WISCONSIN.

Upham Chas M & Bro m and dAngelica
McCartney D m and d
Oleson & Co m and d
Clinton McLaren & Co m and d
Hall A & Co m and d Ahnapee
Brammer Henry & Co m and d
Young D m and d
Sawyer P m and d
Reynolds & Tibbetts m and dAppleton
Lederer B W sash doors etc
Spaulding G W & Co staves
Whorton Bros m and d
Rose & Heath
Door & Steele m and d
Yorker S J dArena
Goodrich J & Co loggerAugusta
Ball J L d m
Stone J F & Son m and d
Randall S logger
Bowen EAlbany
Bowen E
E Ingalls & Co m and d
White & Dunbar, sash, doors, etc
S 8 Vaughn m and d
The Paris of the Control of the Cont

Cary Bros m and d	Auroraville
Flower J H	Bangor
Flower J H, Obrecht Christion d	Baraboo
Bassett Wm P staves	
Pratt s m	
Baraboo Manufacturing Co	
Wolcott W W sash, doors, etc	
Bailey D R	Baldwin
Ham Henry sash, doors etc	
St. Louis & Wisconsin River Co,	Barnum
Woodford & Davis m and d	Barton
R D Pike m and d	Bayfield
Townsend & Co, d Spring c Second	Beaver Dam
Gratiot E H d	Bermont
Gray James p m	Beloit
Weed J H & Co d	
Peck S W d	
Talbot H G d	Berlin
Cohn LS m and d	
Dammond & Co m and d	Big Lester Bay
Bates Geo d	Black Earth
Ward G S & Bro d	
Hurthurt W D m and d	Black Brook
Price WT loggerBla	ack River Falls

Bright & Wither loggers Black River Falls	1
Merrill L G m and d Elliott A m and d	
Iga I loggar	
Ice J logger	
Rump Mark logger	
Burchard Harrison logger	
Burchard Harrison logger Porter W B logger Sawyer AE loggerBloomingdale	
Diskson John and James Bloomingdale	
Barron John	
Briggs & BarnesBoaz	
Barron John Blue Mills Briggs & Barnes Boaz Bucker A Buffalo	
Rouch & Erding	
Somers W & Bro m and d	
Nelson H & Co d Boscobel	
Weston, Miner & Co m and d (Necedah)	
Pierce & Sly m and d Branch	
Yorty J & Kripp d Brandon	
Rowen E d Rrodhead	
Schwahl & Somers m and d Boscobel Weston, Miner & Co m and d (Necedah). Pierce & Sly m and d Branch Yorty J & Kripp d Branch Yorty J & Kripp d Brandon Beach & Bishop d Brillion Bowen E d Brodhead Thompson C C d Brodhead Lamson C & Co d Brodhead Usher & Hassinger d Blake Francis W d Burlington Stevens & Lyons d Burnett Junction Fay C B & Co m and Casco Horn F W m and Casco Horn F W m and Casco Horniston J C d Calamine Staves J M d Calamine Staves J M d Calamine Neff D d Calamine	
Lamson C & Co d	. 8
Usher & Hassinger d	
Blake Francis W dBurlington	15
Fay C R & Co m and d Casco	113
Horn F W m and d Cedarburg	
Hilgen & Son m and d	
Wehausen Henry m and d	
Deniston J C d	
Staves I M d	
Neff D d	
Bock Chas dCalumet	-
Myers Jas d	
Tisch Chas dCarlton	
Harris Bros m and d	
Rix Bros m and d	
Edwards J & Co m and dCentralia	
Staves J M d	
Lefevre H	
Clark & Scott m and d	
Graves James m and d Charlestown	
Union Lumbering Co m and d Chippewa Falls	•
Priest, Coburn & Co p m	
Withrow & McKea sash doors etc	
Vincent Monelert & Co loggers	
Clark Ira m and d	
Hilt & Davidson m and dClay Bank	
Tuft Jas shingle dealer	
Lampheer H P d	11 8
Colby Mill Co m and d	
Graves J S m and d	
Colby Mill Com and d	
Long & Henderson d	
Aldrich V M d	
Wright P & Bro m and d	
D J Walker d	
James T & Co d	
Carpenter H N d	
Clark H d Desperille	
Volume V	
Gormley Watson & Co dDelevan	
Blake Samuel m and dDePere	
Smith B. F. III and d	
McLelland John m and d	
Marsh G S m and d	
Marsh G S m and d	
Monroe John m and d	
Struthers Themas sash doors etc	
Remington H W m and d	
Worth C M & A R s m De Sote	,
Kinney Francis m and d	
Monroe John m and d. Struthers Themas sash doors etc. Hiles G m and d. Dexterville Remington H W m and d. Dexterville Worth C M & A R s m. De Soto Kinney Francis m and d. Durand Plummer & Morse m and d. Doylestown Hoard & Earl d. Doylestown	
Hoard & Earl d	1

Knapp, Stout & Co m and d (Menomonee). Dunnville Baker & Lee d
Baker & Lee dElkhorn
Eau Claire Lumber Co m and dEau Claire
Rathbone N S logger
Rundle & Free sash doors etc
Northwestern Lumber Co. m and d
Northwestern Lumber Co m and d Bangs & Fish p m Boyd A m and d Burdett, Preston & Co m and d Estabrook W B m and d Equ Claire Ingram & Kennedy m and d Graham, White & Co m and d Plukham JP m and d Robson John m and d Daniel Shaw & Co m and d Smith & Buffington m and d Tarrant E m and d
Boyd A m and d
Burdett, Preston & Co m and d
Ingram & Kennedy m and d
Graham, White & Co m and d
Pinkham JP m and d
Robson John m and d
Smith & Buffington m and d
Tarrant E m and d
Wilcox & Co m and d Wilcox & Co m and d Eau Galle Week John m and d Eau Pleine Hutchinson & Bro m and d
Week John m and d
Hutchinson & Bro m and d
Brown R R d Edgerton
Woheten & Polmor mand d Embarrage
Mather & Lowrie dEmery
Isabelle Mill Co m and d Esdaile
Foot, Foster & Co m and dEureka
Avery A H m and d
Pearson & Pake m and d
Long, Henderson & Coe m and dFairchild
Randall, Simeon d Fall Creek Station
Anderson C B dFall River
Johnson D & Co d
Mack H & Bro m and d Evanswood
Cook & Foster m and dFort Howard
C Schwartz & Co. sash doors etc.
Laird J. P. & Co m and d
Gray Oscar m and d
Pilou & Posworth loggers
Hamilton I K & W C loggers
Fond du Lac Mfg Co m and d
Lewis & Steenberg sash doors etc
McDonald & Stewart sash doors etc
Parker N & Co d
Stevely & Higbee p m
Wiley De Jagger
Gainer James logger
Chicago & N W Co's mill m and d
Webster N D logger
Merryman & Co m and d
Merryman & Co m and d
McDonald Alexander m and d Sexmith G W m and d
Merryman & Co m and d
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Parker N & Co Mibills II D & Co. sash doors etc.
Merryman & Co m and d
Meryman & Co m and d
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Moore, Galloway & Baker m and d Mohills U D & Co sash doors etc Hamilton & Finley m and d Hunter George logger Cuttle & Cornish d Fort Atkinson
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d More, Galloway & Baker m and d Moore, Galloway & Baker m and d Hamilton & Finley m and d Hunter George logger Curtis & Cornish d Fort Atkinson Wilcox, Southwell & Co d Matthalses F & C m and d Fountain City Matthalses F & C m and d Fountain City
Merryman & Co m and d McDonald Alexander m and d McDonald Alexander m and d Moore, Galloway & Baker m and d Parker N & Co Mihills U D & Co sash doors etc Hamilton & Finley m and d Hunter George logger Curtis & Cornish d Fort Atkinson Wilcox, Southwell & Co d Matthales F & O m and d Founts in City Bowman W m and d Frankfort
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Parker N & Co Mihills U D & Co sash doors etc Hamilton & Finley m and d Hunter George logger Curtis & Cornish d Wilcox, Southwell & Co d Matthales F & C m and d Frankfort Bowman W m and d Frankfort
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Parker N & Co Hamilton & Finley m and d Hunter George logger. Cuctis & Cornish d Wilcox, Southwell & Co d Matthaies F & O m and d Fort Atkinson Wilcox, Southwell & Co d Frankfort Arpkee F m and d Frankville Arpold G M m and d Frankville
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Moilis U D & Co sash doors etc Hamilton & Finley m and d Hunter George logger. Curtis & Cornish d Fort Atkinson Wilcox, Southwell & Co d Matthaics F & C m and d Frankfort Arpkee F m and d Frankfort
Merryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Parker N & Co Mihills U D & Co sash doors etc Hamilton & Finley m and d Hunter George logger Curtis & Cornish d Fort Atkinson Wilcox, Southwell & Co d Matthaises F & C m and d Frankfort Arpkee F m and d Frankfort Arpkee F m and d Frankind G M m and d Cooley & Race m and d Fredonia Cooley & Race m and d Fredonia Cooley & McEvoy staves etc
Merryman & Co m and d. McDonald Alexander m and d. Sexmith G W m and d. Moore, Galloway & Baker m and d. Parker N & Co. Mihilis U D & Co. sash doors etc Hamilton & Finley m and d. Hunter George logger. Curtis & Cornish d. Matthaies F & C m and d. Frankfort Arpkee F m and d. Frankfort Arpkee F m and d. Frankville Arnold G M m and d. Frankville Cooley & Race m and d. Fredonia Cooley & Race m and d. Fredonia Fredonia Cooley & McEvoy staves etc. Bergtresser L m and d. Fremont
Meryman & Co m and d McDonald Alexander m and d Sexmith G W m and d Moore, Galloway & Baker m and d Parker N & Co Hamilton & Finley m and d Hunter George logger. Cuctis & Cornish d Wilcox, Southwell & Co d Matthaies F & O m and d Fort Atkinson Wilcox, Southwell & Co d Matthaies F & O m and d Frankfort Arpkee F m and d Frankville Arnold G M m and d Cooley & McEvoy staves etc Bergtresser L m and d Franchville
Meryman & Co m and d. McDonald Alexander m and d. Sexmith G W m and d. Moore, Galloway & Baker m and d. Moore, Galloway & Baker m and d. Moore, Galloway & Baker m and d. Parker N & Co. Hamilton & Finley m and d. Hunter George logger. Curtis & Cornish d. Fort Atkinson Wilcox, Southwell & Co d. Matthaice F & C m and d. Frankfort Arpkee F m and d. Franklin Archer & Johnson m and d. Franklin Archer & Johnson m and d. Franklin Archer & McEvoy staves etc. Bergtresser L m and d. Frenchille Sterns & Son staves. Galesville
Merryman & Co m and d. McDonald Alexander m and d. Sexmith G W m and d. Moore, Galloway & Baker m and d. More, Galloway & Baker m and d. Moore, Galloway & Baker m and d. Parker N & Co. Mihills U D & Co sash doors etc. Hamiliton & Finley m and d. Hunter George logger. Curtis & Cornish d. Fort Atkinson Wilcox, Southwell & Co d. Matthales F & C m and d. Frankfort Arpkee F m and d. Frankfort Arpkee F m and d. Frankfort Arpkee F m and d. Frankville Arnold G M m and d. Cooley & Race m and d. Fredonia Cooley & McEvoy staves etc. Bergtresser L m and d. Frenchville Sterns & Son staves. Galesville Freeman A W d. Genoa
Merryman & Co m and d. McDonald Alexander m and d. Sexmith G W m and d. Moore, Galloway & Baker m and d. Parker N & Co. Mihilis U D & Co sash doors etc Hamilton & Finley m and d. Hunter George logger. Curtis & Cornish d. Matthaies F & C m and d. Matthaies F & C m and d. Frankfort Bowman W m and d. Frankfort Arpkee F m and d. Frankville Arnold G M m and d. Frankville Arnold G M m and d. Frankville Cooley & Race m and d. Fredonia Cooley & McEvoy staves etc. Bergtresser L m and d. Brenchville Bergtresser L m and d. Frenchville Sterns & Son staves. Galesville Freeman & G. Gensantown H. Stehand G. Germantown H.
Wilcox & Co m and d. Carson & Rand m and d. Carson & Rand m and d. Eau Galle Week John m and d. Beau Pleine Hutchinson & Bro m and d. Brown R R d. Leau Pleine Hutchinson & Bro m and d. Brown R R d. Leau Pleine Hutchinson & Co d. Elroy Webster & Palmer m and d. Emery Isabelle Mill Co m and d. Emery Isabelle Mill Co m and d. Excelsior Mosier W S m and d. Pearson & Pake m and d. Long, Henderson & Co e m and d. Pearson & Pake m and d. Long, Henderson & Co e m and d. Fall Creek Station Anderson C B d. Fall River Ffifield E d. Johnson D & Co d. Mack H & Bro m and d. C Schwartz & Co sash doors etc. Laird J P. & Co m and d. Griffith J Q & Son m and d. Griffith J Q & Son m and d. Riley & Bosworth loggers. Hamilton I K & W C loggers. Fond du Lae Mig Co m and d. Chourt E sash doors etc. McDonald & Stewart sash doors etc. McDonald & Stewart sash doors etc. Parker N & Co d. Stevely & Higbee p m. McDonald John logger. Meyer Charles J L sash doors etc. Merryman & Co m and d . Frankfort Arpkee F m and d . Frankfort Fremont Brickley John m and d . Fremont Brickley John m and d . Frement Breedman Q . Genoa Junction

(Parties and Parties	Nadas SV a said
Arpen A logger	Nevins S L m and dLaCrosse Paul John m and d
Edwards John & Co m and d	Dellove W U logger
Hertel Fred p m (Centralia)	Root W C logger
Hertel Fred p m (Centialia) Trahern W C	Root W C logger
Arpen J logger. Byron F m and d. Clark & Scott m and d. Mechan P & J m and d	Vincent & Edwards d
Clark & Seett m and d	Weston R S m and d
Meehan P & J m and d	Weston R S m and d. Emery T B logger. Goddard H logger. Hankerson A H logger. La Crosse Eumber Co m and d. Mitchell A S p m LaCrosse Ross Robert m and d. Barron John m and d. Barron John m and d. Lafayette Robson John m and d. Lafayette Robson John m and d. Little River Mills Mikeljohn James m and d. Little River Mills Gardner & Co m and d. Little Suamico Conn A C & Co m and d.
Neeves Geo & Son m and d	Goddard H logger
Rat in John m and d	Hankerson A H logger
Neeves Geo & Son m and d. Rat 'n John m and d. Roe & Butterfield m and d. Scott's 'n S B m and d. Scott's 'n S B m and d. Weed Lumoer Co m and d. Hickerson N H. Grantsburg Graves J & m and d. Gravesville Modlin Henry. Earle & Case s m. Willard Lamb m and d. McIntosh C E s m. Lamb, Watson & Co m and d. Woodruff J W & Co m and d. Holmes & Thompson m and d. Anton Burkhart p m.	La Crosse Lumber Co m and d
Scott's as B m and d	Poss Robert m and d
Weed Lumoer Co m and d	Barron John m and d Lafavette
Hickerson N HGrantsburg	Robson John m and d
Graves J A m and d Gravesville	Sanford G P.& Co dLayalle
Modlin Henry,	Leigh J m and dLittle River Mills
Earle & Case s m Green Bay	Mikeljohn James m and d Little Wolf
Walntoch C.F. a.m.	Conn A C & Co m and d
Lamb Watson & Co mand d	Olsen Geo & Co
Woodruff J W & Co m and d	
Holmes & Thompson m and d	Zeider L,
Anton Burkhart p m	Vaedsch & Runkle, Lowell
Klaus Auton m and d	Smith D F m and dLuck
Marshall & Darling & M	Righmy Freeman d Mc Farland
Klaus Auton m and d Marshall & Darling s m Herling Theo m and d Solutz, Lewis & Henry m and d Schmidt Adam m and d Ewing Thos m and d Hartford Hartford Hartford Hartford Hartford	Bunker & Vroman dMadison
Schmidt Adam m and d	Sorenson & Frederickson p m
Ewing Thos m and d	Stein C R d
Mills J D dHartland	Taylor C L staves
Ewing Thos m and d. Hartford Mills J D d. Hartland King P & Son d. Helena Tripp N D d. Hillsborough Fisher J. Horicon Briggs & Son m and d. Hortonville Gowell, Logan & McMurdo m and d. Redout Bros sush doors etc. Whitman & Morse m and d.	Cooper & Jones
Tripp N D d	Woerfel E stayes
Briggs & Son m and d Hortonville	Hubbard H F d
Gowell, Logan & McMurdo m and d	Zander & Co p m
Redout Bros sash doors etc	Hubbard H F d
	Pierce Plinn
Baldwin D A m and d	Pierce Pilnn
Palmer H G & Co m and d	Green IS d
King G W logger Humbird	Green J S d
White & Jones sash doors etc. King G W logger. Humbird J Kablin pail and tub factory. Hurleyville Roberts John d. Iron Ridge Blair J d. Janesville Fifield, D K d. Lovejoy & Blount d. Jeffries David d. Schutt U d.	Tweedie & McMaster p m
Roberts John dIron Ridge	Menominee Mfg Co m and d
Blair J d Janesville	Spaulding, Houghtaling & Johnson m and d
Fineld, D K d	Spaulding, Houghtaling & Johnson m and d McCartney Wm m and d N Ludington Co m and d Whitbeck H Co m and d Marshall
Jeffries David d	Whitheck H Co m and d
Schutt U d	Whitbeck H Co m and d
Schutt U d	Craig & Maroney sash doors etc Mauston
Andrews F M & Co m and dJenny	King Walter staves
Andrews F M & Co m and d Jenny Matthews Thos m and d Jewett's Mills Sutherlan Sol. Juda Knapp J R d Juneau Taber J B &o. Kansasville Backus N G d Kenosha Harrison W M p m Head & Southerland d Grant & Son Market d	Webster C m and d
Sutherlan Sol Inda	Hewitt Henry Jr logger Menasha
Knann J R dJuneau	Mitchell, Watkie & Co sash doors etc
Taber J B &o Kansasville	Potter & Dutcuman in and d
Backus N G dKenosha	Schneider & Ruth p m Spaulding, Houghtaling & Johnson m&d. Menekaune
Harrison W M p m	Spaulding, Houghtaling & Johnson m&d. Menekaune
Grant & Son, Market d	Stephenson T & Co m and d
Grant & Son, Market Truesdell Gideon, 3 Main d. Hitchcock & Mashek m and d. Stauson, Grimmer & Co m and d. Stranky W m and d. Stranky W m and d.	Kuapp, Stout & Co m and d Menomonee Brand & Christmann m and d Montpeller
Hitchcock & Mashek m and dKewaunee	Brand & Christmann in and d
Slauson, Grimmer & Co m and d	Bainbridge W,Mifflin
Stranky W m and d	Harker & Bainbridge Miffin
Stranky W m and d. Dikeman & Latimer s m. Walker, Munger & Co sash doors etc. Kilbourn City Britton C W m and d. Kinnickinnic Brook V logger. Knowlton Wallace & Redford m and d. Kossuth Kellnor M m and d. Kossuth	Greene N S & Co,
Pritter C.W. mand d. Kinnight and	Dunham I. m and d
Brook V lovger Knowlton	Lucas & Bro m and d
Wallace & Redford m and d	Wight S 8 m
Cloespeck' M m and d Kossuth	Greenman R J d
Kellnor M m and d	Hutchinson James dMineral Point
Black River Improvement Co,LaCrosse	Whites d Wielderth
MaDonald Prog. loggers	Williams I W saw mill Monroe
Salzer G. J.	Lucas & Bro m and d Wight S s m Greenman R J d Hutchinson James d Milton Junction Hutchinson James d Weyhausen A m and d Weyhausen A m and d Mishicott Williams J W. saw mill Monroe Loos Charles d Dodge, Churchill & Co p m Dodge & Dayenport d Roog J L d
Crosby W. W m and d	Dodge, Churchill & Co p m
Coleman C L m and d	Dodge & Davenport d
Gile & Holway m and d	Rood J L d
Reight & Without mand d	Kronenwetter S m and d
Lill & Fourger m and d	Rood J L d Dessert J R m and d. Mosinee Kronenwetter S m and d. Muscoda Garland J d. Muscoda Bull k Powers Muscoda
Hewett & Woods m and d	Bull & Bowers, Muskego Centre
Cloespeck M m and d. Kossuth Kellnor M m and d. Black River Improvement Co. LaCrosse Hogan & Chamberalin loggers. McDenald Bros loggers. Salzer G. J. Crosby W. W m and d. Coleman C L m and d. Gile & Holway m and d. Mooer R M logger. Bright & Withee m and d. Lill & Fouroer m and d. Hewett & Woods m and d. Hixon & Withee m and d. A & D D McMillan loggers.	Bull & Bowers,
A & D D McMillan loggers,	Schroeder & Steinman, dealers

Ernst Herzer, Planing millMilwaukee	Culver E d
Wm. Willer, planing mill. H. Jalass & Co., planing mill. Brockhaus & Bradley, planing mill. Nic. Schuh & Son, dealers. Pedewy, Conymy & Conymy	Lovejoy & Richards dOregon
H. Jalass & Co., planing mill	Harris D dOrfordville
Brockhaus & Bradley, planing mill	Johnson H & Co m and dOmro
Nic. Schuh & Son, dealers	Morton, Arnold & Morton p m
Rodway, Conway & Co, p m sash, drs, etc	Webster & Foster m and d
	Wilson A m and d
Engelmann, Babcock & Salling, m and d Ewing Thos K commission	Foster N U m and d
Ewing Thos K commission	Hall Chas s m
Weston Bros, manufacturer and dealer	Hayden L D (La Crosse Wis)
Mayhew Bros d	Nichela Chea H & Co. m and d
Weston Bros, manufacturer and dealer Mayhew Bros d Durr & Rugee d Schmidt & Reichel d Judd T H & Co d Comstock L & Co m and d. C. Comstock Matter S d Seyfrled Martin d Brembach Fred d Mayhett & Foster d.	Nichols Chas H & Co m and d
Schmidt & Keichel d	Stands CH logger
Judd T H & Co d	Dressor & Wilson mandd
Comstock L & Co in and d	Malhova & Hansaoma mandd
Chandler Walter S d	Wronn I E m and d Oshkosh
Seyiried Martin d	Noff A & Co n m
Brembach Fred d	Channan I. C. & Co. n. m.
Mabbett & Foster d. Simpson E. B& Co commission. Pierce R. W. & Co d. Merrill Bros m and d. Merrillan	Taiboys & Hanscome m and d. Oskkosh Knapp LE m and d. Oskkosh Neff A & Co p m. Oskosh Thompson A p m. Vandercook & Furgerson p m. Oskosh Vandercook & Furgerson p m.
Diana P W & Co d	Vandercook & Eurgerson nm
Marrill Pros mand d Merrillan	Gould JP sash doors etc
Merrill Bros m and d	Jenkins J & Co m and d
Warran I M logger	Jenkins J & Co m and d
Warren J R logger	Horris M m and d
Clark & & Son logger	
Morrill I C m and d	Conlee Bro & Co m and d
Merrill L G m and d	Conlee Bro & Co m and d
Collabor I. W. sash doors etc	Gill & Son loggers
Gile & Halloway m and d (La Crosse Wis)	Freehorn John logger
Kellogg A S,Neshoto	Turner Bros contractors
George Tongs & Com and d (Two Rivers Wie)	Sturtevant & Son contractors
Cooper Muere & Co	Stavenson Chas logger
Cooper & Jones	Stevenson Chas logger
Reymond & Jones	Reynolds Paul contractor
Lamb W New Franklin	Jewell, Lawrence & Co loggers
Bradford McCov & Co m and d Necedah	McNair Jas logger
Cooper, Myers & Co. Cooper & Jones Raymond & Jones Lamb W,	Bamiotti Sosiali Sosiali Reynolds Paul contractor Jewell, Lawrence & Co loggers McNair Jas logger Doughty & Bro loggers
Burch G B & Co m and d	Streeter Geo logger
Dill M R & Co s m	Rockwell & McCord loggers
Shorey P& Bro m and d	Bray & Chote loggers
Weston T & Co m and d	Lynch John logger
Sherry Henry d	Wall & Fitzgerald loggers
Buren 6 B & Co m and d Shorey P & Bro m and d Weston T & Co m and d Neenah Sanford J B p m Hewitt & Woods m and d Neillsville Clark Everly & Breed m and d	Bray & Chote loggers. Lynch John logger. Wall & Fitzgerald loggers. Rumery & Kellogg loggers.
Hewitt & Woods m and d Neillsville	Miller L J logger
Clark, Eyerly & Breed, m and d	Fuinely & McDonald logger
Weston & Schofield, loggers	Righme R P logger
Boardman & Palmer m and d	Stevenson Badgert & Co m and d
King G W m and d	Williamson G M & Co p m
Green A logger	Wetherby David logger
Lindsley FD logger	McAllyster J P logger
Weston & Schofield, loggers. Boardman & Palmer m and d. King G W m and d. Green A logger. Lindsley F D logger. Putnam L G d. Neosho	Williamson & M & Co p m Wetherby David logger. McAllyster JP logger. Hanson W E logger.
	Hanson w E logger Crowell & Son logger Webb, Albert & Co s m Myers & Van Every s m James & Stille d
Hale & Springsted m and d New London Dixon H S m and d and staves Dougherty, Delano & Demming sash	Webb, Albert & Co s m
Dixon HS m and d and staves	Myers & Van Every s m
Dougherty, Delano & Demming sash	James & Stille d
	James & Stille Lines, Libbey & Co p m. Morgan Bros m and d. Weed J H & Co m and d.
Ketchum H m and d (Merrilan Wis) Jacobs E P m and d New Richmond Johnson Bros m and d	Morgan Bros m and d
Jacobs E P m and d New Richmond	Weed J H & Co m and d
Johnson Bros m and d	Fraker JS 8 m
Pierce & Son m and d	Spalding & Peck m and d
Brown J & Co m and d	Fraker J S s m. Spalding & Peck m and d. Campbell Wm & Sons m and d. Libby D L & Co m and d.
Wisconsin Mnfg Co m and d	Libby D L & Co m and d
Putnam & Blair sash doors etcOakfield	Regan, Uneney & Fratt m and d
White J T & Co p m	
Streeter J & A C & Co dOconomowoc	Ripley & M:ad m and d
Roll & Iuliniam p in and sash doors etc	E. C. Kellogg logger
V1198 (+ 0	John A. Paige Pres Wolf River Broom Co
Woodruff Bros d	Durby & Curran s m
Livermore & Co m and dOgdensburg	McMillan R. & Co m and d
Brunquest W m and dOconto	Sawyer P & Son m and d
Woodruff Bros d	John A. Page Pres work ever broom Co Durby & Curran s m McMillan R. & Co m and d Sawyer P & Son m and d Raine R N & Co m and d Reed L B & O B m and d Sheldon L P & Son m and d Laabs J & Co m and d
4+00drich I D 10gger	Reed LB & UB m and d
Luby logger	Sheidon L P & Son m and d
Orr, Newell & Co m and d	Laabs J & Co m and d
Luby logger Orr, Newell & Co m and d. Jacob Spies m and d. Leigh John m and d.	Buckstaff Bros & Chase m and d
Leigh John m and d	Hoster & Jones in and d
Oconto Lumber Co m and d	Michael Bass d
Comstock & Simpson m and d	Mitchell Bros d
Holt, Balcom & King m and d	Brakking Co. mand d
Window England & Co.	Protestant Honer d Powerboa
Leigh John mand d Connto Lumber Co m and d Comstock & Simpson m and d Holt, Balcem & King m and d Fierce L M p m and sash doors etc Winslow, England & Co m and d Loosey Chas d Vanderpool & Clark d Woodley Samuel d	Buckstaff Bros & Chase m and d Foster & Jones m and d Henderson & Wilson d Mitchell Bros d Gray A D m and d Peshtigo Co m and d Peshtigo Prutzmann Henry d Frisbee & Westover d Gray Bros Westover d Pine River Gratiot E H d Platteville Lovelson F m and d Plum City
Vandarnaal & Clark d	Gratiat E H . d Plattaville
Woodley Semuel d	Lovelson F m and d Plum City
Trooutey Damuel d	actional a mana attribution to the configuration of

Bowman G M dPlymouth	Stafford L RStaffordsville Bailey D C loggerStevens' Point Blake & Mitchell loggers
Mc Graw E M & Co dPortage City	Bailey D C loggerStevens' Point
Wentworth, McGregor & Co d Portage City	Blake & Mitchell loggers
Carnagie A p m	Benson P & Bro loggers
Nasvel & Davis d Potesi	Burns, Thompson & Co m and d Boynton N m and d Brown E D m and d
Schneider Joseph d	Brown E D m and d
Jamison Hugh dPoynett	Bean T G & Son m and d
Jamison Hugh d	Campbell P logger
Smith & Foster m and d	Homestead Seth logger
Smith & Foster m and d Weston T & Co m and d (Necedah) Prairie du Sac	Gilchrist A B logger
Meacham & Bro nm Prescott	Goodhue Geo J, Jr logger Hungerford Seely logger Hutchinson & Bro m and d (Eau Pleine)
Green G d Princeton Gillon N Pine Grove	Hungeriord Seely logger
Claws C	Hubbard — shingles
Glawe O	Karner S H m and d
Garland & Nichols	Knox Bros m and d
Peck S B & Son d Racine	Meehan Bros m and d (Linwood)
Driver Thos p m	McDill T & Bro m and d
Kelly, Murray & Co d	McMillan & Sons m and d
Kensie W D & Co sash doors etc	Moe Louis I logger
Miner E B & Co sash doors etc	Lester & Plummer m and d
Slawson Jas R & Co d	Park G L logger
Ilsley & Wilson d	Parry I & 1 larger
Cushman A G. Readstown	Perry I & J logger
Schofield & Co m and d Red River	Rennie John logger
Cushman A G	Reading & Van Order shingles
Smith Timothy,Reedsburgh	Richardson Chas logger
Snow W H d	Clifford Wm J logger
Snow W H d	Rousseau M A m and d
Rudolph C J	Sherman S A m and d
Rudolph C J	Scott Bros mand d
Learmouth J dRlo	Sheckels Wm logger
Barlow J B & Co d Kipon	Walker & Wadleigh m and d
Lanning A p m	Whitney Ebenezer logger
Chinock J H s m River Falls Foss H W d River Side	Waleh Adam logger
Shirland & Co. a.m. Robinson	Welch Adam logger O C Wheelock logger
Shirland & Co s m	Callahan Chas logger
Hawn Charles m and dRock Eim	Callahan Chas logger. Redfield John. logger. Isherwood J & H logger. Johnson J O logger. Martin John R logger.
Pedrick M d	Isherwood J & H logger
Bowman Na m and dRoundhill	Johnson J O logger
Moore JP & Co dRoyalton	Martin John R logger
Judd, Walker & Co m and d Saint Croix	Clark Owen m and d
Roberts George m and dSandy Bay	Cooper B F m and d
Halasz Chas dSauk City	Cronkhite, Plummer & Co m and d
Obrecht C dScott	Clements D R logger
Circular Com and d Senera Wood Co	Curren H & I D logger
Girard & Co m and d Senaca, Wood Co Campbell Y d	Cook Cornellius logger
Daniels G d	Turner O M d
M H McCord loggerShawano	Ardt F pmSturgeon Bay
Beecher L S logger	wright rulus in and d
Miller, Mathias m and d	
Klebesadel & Miller m and d	McIntosh, Ross & Perry m and d
C. D. Wescott logger	Crow I mand d
Asa Hicks logger	Gray J m and d
H E Howe, logger	Bruce J & Co
CWUpham logger	Cook & Sons
Hockner A dShehovean	Trumble M E & Co m and d
Hockner A d	Gray 0 m and d
Winters M d	Gray O m and d
Weeks A L d	Marshall & Co
Haseltine C P m and dSherman	Weed A & Co m and dSuperior
Kelly W P & Co m and d	Howard John D m and dSuperior
Bishop Bros staves and m and dSherwood	Peylon H M & Co m and d
Nugent & Collins m and d	Angell W H & Son QSun Prairie
J. H. Parks loggerShiocton	Eldred Anson m and dStiles Zimmermann W dTheinsville
Mason, Barnes & Co m and d	Huct John
Harriman Samuel m and d Somerset	Huct John
Irwin O L, Maple dSparta	Gleason & Squires m and dTomah
Holden G B d	Warren & Gamble m and d
Setson Bros p m	Barrett J M dTrempeleau
Setson Bros p m Walker J H d	Reed Joseph
Farnum E B d Springfield, Walworth Co	Mann Joseph & Co m and dTwo Rivers
Hopkins P G d	Cooper & Jones m and d (Manitowoc)
Hopkins P G d	Goyt C
De Jean T D & A W m and d	I nose I & Pro a m
Kellogg & Son m and dStephensville	Lucas J & Bro s m
Wunderlich Z m and d	Bray, Robinson & Co d Waldo
Smith & Halsted Bros m and dStockbridge	Hamlin & Ford d
and the state of t	

110	
Weldo	Leahy Capt J logger
Whitney & Darling dWaldo Cooley U F & Co m anddWaubeka Howlett & Co p mWaupaca	Lawrence & Peters loggers
Hamlett & Co. n. m	Manson Rufus m and d
Payne & Co m and d	McCrossen Jas logger
Howlett & Co p m	Plummer B G m and d
Lewellen & Lunn	Single Ben m and d
	Stewart A & J m and d
Hamlin J H & Co d Wester d	Wenhime & Kickbush loggers
	Zastrow Ed logger
Semple A	Enderby & Austin staves
Semple F	Mc Queen, Davis & Co d
Semple F	Shell Bros d West Salem
Hollendyke N d	Littlejohn A M d
Hollendyke N d	Weed, Gummaer & Co m and dWeyauwega
	Nutt M E & Phillips s m
Dodd Sam'l p m	Jones, Wellington & Co m and d
Andrews & Parcher m and d	McArthur & Co m and d
Caller Tohn T m and d	Starks Stickles & Co p m
	Cabulta C Woodland
	Day C & Co m and d wrightstown
	George v. Brill p m
	Mc Kesson staves
Clarke J C m and d	
Clarke J C m and d	
	McCutchen H d
Daniels H s m	McCutchen H d
Kickbush & Bro loggers	Twing A
MICH	IGAN.
Arme	Au Sable Lumber and Shingle Co m and d. Au Sable
Hoxie LS m and dAda Headley JohnAda	Backus & Bros mand d (Detroit)
Raker D M dAdrian	Charles Stone Timber Co (Detroit)
Raker D M d	Colwell Smith & Langstaff m and d
Berry James in and d	Glennie J W m and d
Maxwell A & Co p m	McDonald D A
Good & McGregorAlbion	Moore Alger & Co m and d (Detroit)
Wright Peter m and d. Albion Cosad & McGregor. Albion Haynes & Beard m and d. Alcona Folkerts F C & Co m and d. Algonac	Moore & Tanner
Folkerts F C & Co m and dAlgonac	Vaughan S
Smith A & S S m and d	Wilson H D s m
Smith A & S S m and d	Hawley A M
Bass R	Miller A & G m and d
West N B sash doors etc Allendale	Steele C s m
Roberts Richard m and d	Kroetzer G & Co p mBainbridge
German & Dewey in and	Babcock Surrett & Co m and dBaltimore
Winchester & Parish staves	Cruther G W m and d
	Childs E J sash doors etcBangor Van Buren Co
	Green & Thompson m and d
Farnum Rufus K m and dAlmont	Nyman J H m and d
Bewick Comstock & Com and dAlpena Campbell Potter & Com and d	Moore Smith & Co m andBanks Bay Co
	Taylor & Moulthrop m and d Keystone Lumber Co m and d
	Keystone Lumber Co m and d
	Bendry James m and dBaraga
	Bendry James m and d
	Dwinell Pettee & Edwards sash doors
	Halbert & Knight sash doors etc
	Leggett S L D.M
	Mason Rathbon & Simmons d
	Avery Murphy & Co m and d Bay City
Prentise Geo & Co in and d	Ames Bros m and d
Richardson Arthur R	Archibald & Bradley m and d
Richardson Arthur R. Richardson Chas W. Richardson Geo.	Bradley H M & Co m and d Bradley N B & Co m and d
Richardson Geo	Bradley N B & Co m and d
Richardson Geo	Carney T sash doors etc
Spratt Aug Spratt Frank	Carrier John & Co m and d
Cummings Geo W s and m Ann Arhor	Carrier John & Co m and d
Ferdon John & Son d	Chapman G P & B
	Dolson Chapin & Co. m.and d
Miller Caleb & Sons m and d	Gardner F F & Son
	Gates & Fay m and d
Darwood & Daley m and d	Huiser F & A
Darwood & Daley m and d	Hay Rutman & Co m and d
Williams W m and d	Hitchcock & Ingraham m and d
Bracy & Clark P III	Miller Albert m and d
Williams W m and d	McEwen John m and d
Datis D C	

McGraw John & Co m and d (Portsmouth). Bay City	Jerome T & Co m and d
McRoberts & Savage square timber	Litchfield E C m and d(New York City)
McLean Seth & Son m and d	Merrill C & Co m and d (Detroit)
Moore Smith & Co m and d	Saylor T & Co m and d
Patrick M S	Shaw & Williams m and d
Peters W m and d	Tilden & Sackett m and d
Patrick M S Peters W m and d Pitts & Cranage m and d Ramsdell James	Congdon & Colton m and d
Ramsdell James	Lacy John G sash doors etc
Richards Miller & Co m and d	LaDue & Young m and d
Kouse J M m and d	Crawford Frank m and dCaseville
Rust A & Co m and d	Barber W LCedar Springs
Rust Hay & Co. Sage H W & Co m and d (New York city).	Beckhart Jacob p m
Sage H W & Co m and d (New York city)	Benedict JO&ER sm
Sanford J S p m	Graham C & Co m and d
	Grosvenor E m and d
Stevens & Shailer m and d	Grosvenor E m ard d
Stevens & Shailer m and d	Hubbard & Wood m and d (Chicago). Esterly Geo W & Co m and d
Smith & Wheeler p m	Esterly Geo W & Co m and d Charlevoix
Talbert James. Taylor Moulthrop & Co	Charlotte Manufacturing Co staves Charlotte
Taylor Moulthrop & Co	Curtis Houck & Bennett p m
VanEtten Kaiser & Co	Hart & Richardson p m Charlotte
Webster S H & Bro m and d	Johnson N A p m
Westover Culver & Co	Johnson N A p m Loring Allen T Merritt & Co p m Smith J W H & Co m and d Lyd & Smith m and d Chabeugen
Whilthauer Schuerman & Co	Merritt & Co p m
Whipple Parmely & Co m and d	Smith J W H & Co m and d
Watrous Bros & Co mand d	Hurd & Smith m and d Chebovgan
Watrous Bros & Co m and d	Hurd & Smith m and d
Hopkins Bros & Wise m and dBear Lake	Mattoon S A m and d
Hopkins Bros & Wise m and d. Bear Lake Anderson D H & Co m and d. Bear Lake Mills Wilson Lather & Wilson m and d. Belding P O Davey W & Co d. Bellevue	Nelson Strahn & Co m and d
Wilson Lather & Wilson m and d Belding P O	Prentice Geo H m and d (Detroit)
Davey W & Co d Bellevue	Smith David m and d
Hull Bros pm	Smith Thompson m and d
Smith A A & Co m and dBell River	Smith E & F sm Vorce Barker & Co m and d
Remick E & Co m and d Benona	Vorce Barker & Co m and d
Williams H m and dBenton Harbor	
Cave L W m and dBenzonia	Goodale J C m and dChesaning
Smith A A & Co m and d Bell River Remick E & Co m and d Benton Harbor Cave L W m and d Benzonia Fitch & Phelps m and d Big Rapids Green L H m and d Big Rapids	Nason R H & Co m and d
Green LH m and d	Garton & Davenport m aud d Chester
	Goodale J C m and d
Monroe Bros & Rose s m	Coombs & Bro m and d
Monroe Bros & Rose s m	Coombs & Bro m and d Harris & Bro m and d McKinnon D C
Stinson & Clark m and d	McKinnon D C
Wood H B sash doors etc	
Wood H B sash doors etc	Shacke.ton & Green m and d
	Starrett Henry d and p m
Weller John m and d	Linderman & Ricker m and dClintonville
Whitney M S m and d	Curry Jos LClio
Weller John m and d	White John
Hipp & Hays m and d	Maxwell H N & Co m and d Clyde Mills P O
Smith W H m and dBirmingham	Vincent Edward m and d
Ferry & Sons m and d (Grand Haven). Black Lake Jipson H m and d Blissfield	
Jipson H m and d Blissfield	McLanc & Frith d
	Sweet GC m and dColumbia
Anable T C m and dBloomingdale Conger & Broadwell m and d Holmes L K m and d Kitheffer & Ames m and d Jenson L & Co. sm. Rlue Lake	Hemingway H L & J L m and d Columbiaville
Conger & Broadwell m and d	East Thos m and d
Holmes L K m and d	Hungerford R H dConcord Boubright & French m and dConstantine
Kilheffer & Ames m and d	Boubright & French m and dConstantine
Jenson L & Cosm. Blue'Lake Schmitz Anthony m and d. Blunfield Bond Brosm and d. Bonds Mills	George & Tweed: Il sash doors etc
Schmitz Anthony m and dBlunfield	Harwood H J & Co m and d
Bond Bros m and dBonds Mills	Jones Wolf & Co m and d
Bowen E H & Son m and dBowen's Mill	Jones Wolf & Com and d
Headley Silas m and d	Wagley JohnCross Village
Richardson J H m and dBrowne	Backart Geo m and dCroton
Brown Sarah D m and dBreedsville	Collins David m and d
Purley Putnam & Son m and d. Bridgenan LaketonP	nigbee Nelson in and d
	Rice Wm m and d
Brucker F & Co shinglesBridgeport Center Hill L L m and d	Oneida Lumber Co m and d Crow Island Fuller & Smith m and d Crystal P O
Hill L L m and d	Fuller & Smith m and d Crystal P O
Hodgeman L m and d	Comn & Cuddeback m and d Dallas
Ketchum Bros shingles	Coffin & Cuddeback m and d Dallas Needham & Wilson m and d Dayton Wilson Jas H m and d
Helman I mand d	Wilson Jas H m and d
Holmes J m and d Bronson Richards & Fox m and d Buchanan	Wallace John B m and d Dearbona Bull & Ackley m and d Decatur Rawson LT p m Roger A H & Co m and d Werner LD wand d
Roe Charles m and d	Parson I. T. n. m.
Sherwood Alonzo m and d	Roger A H& Co. mand d
Pierce I. m and d Ruelington	Warner J P m and d
Sherwood Alonzo m and d	Rlinn & Row stayes Doorfold
Raker OR n m	Lovett & Smith n m
Mckinley James n m	Packard & Son mand d
Welker H R m and d Campbell	Adams & Ferguson m and d Detroit
Mckinley James p m Welker H R m and d, Campbell Downey Bros m and d Capax	Allen E G d
Tibbals Botsford & Co staves	Marner J P m and d Blinn & Row staves. Deerfield Lovett & Smith p m. Pack rd & Son m and d. Adams & Ferguson m and d. Allen E G d. Avery & Murphy m and d. Backus & Bro m and d.
Ballantine H A & Co m and d	Backus & Bro m and d
Tibbals Botsford & Co staves. Ballantine H A & Co m and d Carrolton Carrolton Lumber Co m and d. Gould Erastus T m and d.	Bearss J H d
Gould Erastus T m and d	Bewick, Comstock & Co m and d

TIA	
Bigelow AE dDetroit	Allison J P m and d East Saginaw Atwood W Q m and d
Brooks C F m and d	Atwood W Q m and d
	Bissell A G & Co m and d
Campbell E P d	Rurt W R & Co m and d
Carrier Byron d	Bundy & Voumans m and d
Crapo W W m and d	Burnham & Still m and d
Damon JBT & Co m and d	Duncan & Gamble m and d
	Duttor CS staves
Dewey J & Son sash doors etc Dingeman & Rabaut sash doors etc	Estabrook & Mason m and d
Dubois Lewis p m	East Saginaw Manufacturing Co
Dwight Wm M&Co m and d	Eaton, Potter & Co m and d Eddy C K m and d
	Eddy, Avery & Co in and d
Ferguson A & Co a	Edwards & Sanborn m and d
	Elsworth Arthur L
Flynn John sash doors etc	Finnal WmGamble John m and d
Gamble P M d	
Green Geo B & Co a	Gardner F F & Sons Gebhart & Estabrook m and d Glynn P & Co m and d Goddard E G m and d Caret C W & Co. m and d
	Glynn P & Co m and d
	Grant C W & Co m and d
	Grant & Savior m and d
Ingersoll J W p m Ives, Green & Co m and d	Hill Jas H
Ives, Green & Co in and d	Hunter Bros
	Hoyt Jesse m and d (N Y City)
Kershner & Rea d	Johnson T B s m
	Lee Charles m and d
Linsey & Co mand d	Mc Cormick A W
Loud Gay & Co m and d Lyon Isaac L Nason Chas E d. Merrill & Palmer m and d.	Mc Dougall R B
Nason Chas E d	Lathrop, Inscho & Co m and d Marks & Flitz
Merrill & Palmer m and d	Morrill Chas & Co m and d
Moffat Hugh m and d	Mitchell & Roland Lumber Co mand a
Moore Chas F d	(Cincinnati)
Moore F & S d	Oneida Lumber Co m and d Ortman Chas L m and d
	Omena & Prower m and d
	Rose D F & Co m and d
Osborne of a co a	Rust J F & Co m and d
	Sears & Holland m and d
	Ten Evck C E s m
	Ten Eyck CE s m
Rea W J d	Tolfree & Simpson in and d
	Turner H m and d
	Tuttle & Pease m and d
Ross Geo A & Co d	Warner & Eastman m and d
	Wiggins G B& B J m and d
Chillings & Whitney Bros III and U	Wright & Co m and d
Steele A M d	Bliss & Pierce m and d
Mannay Dobort 898h doors elc	Grant W G& Son mand d (N Y city)
	Smith H P & Soils in and and each etc
	Carton & Davenbort m and d
Whitemore & Prentice m and d	
Williams Osborne & Co m and d and p m	
	Hipp B W. Eau Claire Anderson J H m and d. Edgerton
	Becker G m and d
Copeland R P	Bradfield E m and d (Ada)
Pratt Geo. Douglas Gray Thos m and d. Douglas Judd W sash doors etc. Dowagiac Sill Benj. D & Son m and d.	Cain James m and d
Indd W sash doors etcDowagiac	Cook & Scarrel s m
Sill Benj. D & Son m and d	Kidder M C m and d
Sill Benj, D& Son mand d Starett C p m Darwood & Daily mand d Dryden Mears C mand d (Chicago) Duck Lake Hall, Ward & Brewer mand d staves Dundee	Monroe & Jones m and d
Darwood & Daily in and d	Monroe & Jones in and d. (Rockford) Porter D m and d (Rockford) Porter Seth s m
Hall Ward & Brewer m and d staves Dundee	Porter Seth 8 m
Morse Nathan m and d	Dlain W W n m
Stowell J A m and d	Leach & Ramsey m and d
	n de follocher mand d Emmett Station
Duchaell John mand d	Herman & Son m and d
Quick, Fish & Andrews m and d Eastman Galen m and d (Grand Haven). Eastmanville	Whittington w & D E in and d Escanaba
Trafferen Thee mand d	Whittington W.C.D.E. in and C. Escanaba Glaser Emil p m. Escanaba Ames Bros. m and d. Essexville
Thayer Edwin m and d	Autes Dive . In and di

Carrier John & Co m and d (Bay city) Essexville	
	Farrin & Co Grand Rapids
Ferris & Hull m and d Fetalla Summer DA	Knight Geo L & Co m and d
nicks James m and d	Krum Foster & Co n m
Tucker, Morris W & Co	Long A B & Sons m and d
Kanfield & Andrews m and dEureka	Lore K W staves
Davis & Curtis m and d Evart Farewell Jas G m and d Evart	McElmer J G m and d (Lockwood)
Farewell Jas G m and d	Mackey Walker & Co lath mill (Chicago)
Hamilton & Mason s m	Nichols & Co p m
Lamb & Matthews m and d	Norton A F& Co
Palmer, Welch & Russ m and d and staves Exeter	Pardee Cook & Bro m and d
Scofield S A m and d	Pew G H p m
Travor staves	Powers W H D m
Bloomer E J m and d	Powers W T & Son
Fuller & Sager p m	Putnam Enos
Odell S & J m and d	Quimby J L
Myer Henry shingles Foir Heren	Roberts A & Son
Schnoor H C m and d and stayes	Robinson S& Co p m Ryan Young & Co m and d
Myer Henry shingles	Ward F.F. & Co
Parkins & Sons m and d	Ward E F & Co
Batcheller, Slaight & Co m and d	Webster A & Co p m
	Wilkins & Bachman p m
	Withey L H & Co m and d
White, Glover & Co m and d	Wonderly Lumber Co m and d
Balley C C m and d	Dewory E m and dGrandville
dilibert Ira W m and d	Jennison HGrandville
Walter W L 8 m	Belknap & Oliver sash doors etcGreenville
Atwood J B & Co m and d	Clark & Rhinesmith Lumbering Co
Beardsley, Gillis & Co sash doors etc	Fuller & Gowan m and d
Begole, Fox & Co m and d	Hart Henry m and d
Briscoe & Lockwood	Hutchings S G
Busenbark & Stone	Jenks C C s m
Carpenter Samuel m and d	Wright Bros
Crapo W W m and d	Pardee Cook & Blanchard m and d (A Par
Decker Grant staves	dee & Co New York)
Eddy Chas C & Co m and d	McRoberts A m and d (Bay City) Hampton
Eddy Jerome p m	Backus A J m and d (Backus & Bro De-
G1008 D & Co	troit)
Hamilton Wm m and d	Westons Colwell & Co m and d
Hascall H C m and d	Hills W m and d
Lee & Wilcox Mc Creery W B p m	Allen & Crook in and d
Mc Creery W B p m	Hinckley Rros etapos
bic farming A in and d	Olds & Crandal sash doors etc
Smith Hiram m and d	walker sm
Davenport Geo & Co m and dFlorence	Bentley J W & C G sash doors ctc Hastings
Grant & Saylor m and d (East Saginaw)	Hortin & Jacobs m and d
Haskins, Martin & Wheeler m and d (East	Kellogg & Sawyer m and dHeath
Sagin w). Merrili Chas & Co m and d (East Saginaw)	Starker D F s mHemlock
Shaw & Williams m and d	Blodgett D A m and d
Ford River Lumber Co mand d (Chicago). Ford River	Gerrish Murphy & Co m and d
Smith & Kelley m and d (Au Sable)Forester	Sutton & Fisher d Hillsdale
Dwyer Geo G 8 m	Ferris R B m and d
Dwyer Geo G s m Frankfort Hubbell & Wakefield p m Frankfort Hilleman & Hessen m and d	Vanderveer E& Co staves and shingle mill.
	Duzzen bros sasn doors etc
	Ravid Robt A mand d
Fruitport Mig Co m and d Fruitport	Buzzell Bros sash doors etc Holly Bayid Robt A m and d Hopkins Hillard L m and d
Fruitport Mig Co m and d Fruitport	Hillard L m and d
Gage Joseph m and d	Chubb J F s m
Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station	Chubb J F s m
Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station	Chubb JF s m Howard City Lord & Kipp s m Morgan & Quick m and d
Gage Joseph m and d Fruitport Gage Joseph m and d Galnes Station Sayers Bros m and d Galnes Station Sayers Bros m and d Galnes Station Blakeslee Geo A m and d Gallen Batchelor Slatt & Co m and d Grand Haven	Chubb JF sm
Gage Joseph m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galies Station Blakeslee Geo A m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone.	Chubb JF s m Howard City Lord & Kipp s m Morgan & Quick m and d Marson & Reed Howell Barnard J E & Co Howell
Gage Joseph m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Galien Blakeslee Geo A m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Guller D m and d	Chubb JF s m Howard City Lord & Kipp s m Morgan & Quick m and d Mason & Reed Howell Barnard JE & Co Howell
Gage Joseph m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Galien Blakeslee Geo A m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Guller D m and d	Chubb JF s m
Gage Joseph m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galies Station Blakeslee Geo A m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Cutler D m and d Dirk & Barker m and d Eastman Galen m and d	Chubb JF s m
Gage Joseph m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galines Station Blakeslee Geo A m and d Galine Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Gutler D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Ferry & Bro m and d	Chubb JF s m
Fruitport sig to m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galies Station Sayers Bros m and d Galien Batchelor Statt & Co m and d Grand Haven Bigelow & Stone Cutler D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Ferry & Bro m and d Gibson James	Chubb JF s m
Gage Joseph m and d Fruitport and Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Galien Batchelor Slatt & Comand d Grand Haven Bigelow & Stone Cutler D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Ferry & Bromand d Gibson James Monroe & Howlett m and d Gibson James Monroe & Howlett m and d	Chubb JF s m
Fruitport ang to m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Galien Blakeslee Geo A m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Cutler D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Gibson James Monroe & Howlett m and d Reynolds & Emlayer Monroe & Howlett m and d Reynolds & Emlayer Monroe & Howlett m and d Reynolds & Emlayer Monroe & Howlett m and d Reynolds & Emlayer Monroe & Howlett m and d Reynolds & Emlayer Monroe & Howlett m and d Reynolds & Emlayer Monroe & Howlett m and d Monroe & Howlett m	Chubb JF s m
retuport sig to m and d Fruitport Gage Joseph m and d	Chubb JF s m
Fruitport ang to m and d Fruitport Gage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Galien Blakeslee Geo A m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Cutler D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Gibson James Monroe & Howlett m and d Reynolds & Emlayu Reynolds	Chubb JF s m
retuport sig to m and d Fruitport Gage Joseph m and d	Chubb JF s m
retuport sig to m and d Fruitport Gage Joseph m and d	Chubb JF s m
retuport sig to m and d Fruitport Gage Joseph m and d	Chubb JF s m
rentport sig to m and d Fruitport Gage Joseph m and d	Chubb JF s m
retutport sing to m and d Fruitport and Gage Seeph m and d Gage Gage town Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galien Station Sayers Bros m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Guller D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Ferry & Bro m and d Gibson James Monroe & Howlett m and d Reynolds & Emlay Rysdorf & Busch m and d Stowe C L Galler H E m and d Girard Bradley H Rose p m Grand Ledge Lamson Edmund m and d Grand Ledge Lamson Edmund m and d Grand Ledge Lamson Edmund m and d Russell E s m Grand Ledge Russell E s m	Chubb JF s m
rentport sig to m and d Fruitport Gage Joseph m and d	Chubb JF s m
retutport sing to m and d Fruitport frage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Gaines Station Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone. Cutler D m andd Dirk & Barker m and d Eastman Galen m and d Ferry & Bro m and d Gibson James Monroe & Howlett m and d Reynolds & Emlay Rysdorf & Busch m and d Stows C L Wyman Buswell & Co. Ca'le H E m and d Girard Bradley H Rose p m Grand Ledge Lamson Edmund m and d Russell E s m Barnhart & Osterhaut m and d Borden A D & Co p m Bornhart & Osterhaut m and d Borden A D & Co p m B	Chubb JF s m
retutport sing to m and d Fruitport frage Joseph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Gaines Station Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone. Cutler D m andd Dirk & Barker m and d Eastman Galen m and d Ferry & Bro m and d Gibson James Monroe & Howlett m and d Reynolds & Emlay Rysdorf & Busch m and d Stows C L Wyman Buswell & Co. Ca'le H E m and d Girard Bradley H Rose p m Grand Ledge Lamson Edmund m and d Russell E s m Barnhart & Osterhaut m and d Borden A D & Co p m Bornhart & Osterhaut m and d Borden A D & Co p m B	Chubb JF s m
rentport sig to m and d Fruitport and Gage Station Gage McNair m and d Gaines Station Sayers Bros m and d Galien Station Sayers Bros m and d Galien Station Sayers Bros m and d Galien Batchelor Statt & Co m and d Grand Haven Bigelow & Stone Guiter D m and d Grand Haven Dirk & Barker m and d Eastman Galen m and d Gibson James Monroe & Howlett m and d Gibson James Monroe & Howlett m and d Reynolds & Emlay Rysdorf & Busch m and d Stows C L Wyman Buswell & Co Gale H E m and d Grand Ledge Lambon Edmund m and d Grand Ledge Lambon Edmund m and d Rossell E s m Barnhart & Osterhaut m and d Borden A D & Co p m Glancey John Clark & B & Co eash doors etc	Chubb JF s m
retutport sig to m and d Fruitport and Gage Station Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Gaines Station Sayers Bros m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Gutler D m and d Grand Haven Dirk & Barker m and d Grand Haven Dirk & Barker m and d Gibson James Monroe & Howlett m and d Gibson James Monroe & Howlett m and d Reynolds & Emlay Rysdorf & Busch m and d Gibson James Grand Galler Gage Garden	Chubb JF s m
rentport sig to m and d Fruitport and Gage own Lloyd & McNair m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galien Batchelor Statt & Co m and d Galien Batchelor Statt & Co m and d Grand Haven Bigelow & Stone Cutler D m and d Grand Haven Dirk & Barker m and d Galien Barker m and d Gibson James Monroe & Howlett m and d Gibson James Monroe & Howlett m and d Stows C L Wyman Buswell & Co Gaile H E m and d Girard Bradley H Rose p m Grand Ledge Lambon Edmund m and d Russell E s m Barnhart & Osterhaut m and d Borden A D & Co p m Clancey John Clark G B & Co sash doors etc Comstock C C m and d Crossette Graves & Co m and d Crossette Graves & Co m and d Grossette Graves & Co m and d Grossette Graves & Co m and d	Chubb JF s m
retutport sing to m and d Fruitport and Gage Seeph m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galien Station Sayers Bros m and d Galien Batchelor Slatt & Co m and d Grand Haven Bigelow & Stone Guller D m and d Grand Haven Bigelow & Stone Guller D m and d Grand Haven Bigelow & Stone Guller D m and d Gibson James Monroe & Howlett m and d Gibson James Monroe & Howlett m and d Reynolds & Emlay Rysdorf & Busch m and d Gibson James Guller Gu	Chubb JF s m
rentport sig to m and d Fruitport and Gage own Lloyd & McNair m and d Gagetown Lloyd & McNair m and d Gaines Station Sayers Bros m and d Galien Batchelor Statt & Co m and d Galien Batchelor Statt & Co m and d Grand Haven Bigelow & Stone Cutler D m and d Grand Haven Dirk & Barker m and d Galien Barker m and d Gibson James Monroe & Howlett m and d Gibson James Monroe & Howlett m and d Stows C L Wyman Buswell & Co Gaile H E m and d Girard Bradley H Rose p m Grand Ledge Lambon Edmund m and d Russell E s m Barnhart & Osterhaut m and d Borden A D & Co p m Clancey John Clark G B & Co sash doors etc Comstock C C m and d Crossette Graves & Co m and d Crossette Graves & Co m and d Grossette Graves & Co m and d Grossette Graves & Co m and d	Chubb JF s m

Sprague R F Langsto Wilcox & Briggs m and d Langsto Allen & Wise sash doors etc Lansin	n Si
Wilcox & Briggs m and d Lansin	Ca H
Clark & Harris m and d	R
Longstreet & Lapham D M	Be
Ottis & Son d	Ei No
	R
Trushes & Dro m and d	er So
Hugnes & Bro m and d	SI
Hemingway C M & Co p m	D
King Robt m and d	F
Millis J D & Son	11
Peters F J s m	M
Stevens Currier & Townsend m and d	-
Walker Bros m and dLawt Powell Hauck & Bro m and dLawt	on C
Grout V H p m	F
Fray H P staves. Grout V H p m. Russell S O. Moss Mills & Galge m and d. Lexingtoning Tewksbury & Co m and d. Lexingtoning Tewksbury & Co m and d. Lexingtoning Tewksbury & Co m and d. Lexingtoning Tewpord d.	on C
Nims Tewksbury & Co m and d	S
Nims Tewksbury & Co m and d	od S
King Quick & Co m and dLow	ell T
Mason & Ecker p m	H
Wooding & Hire m and d	on V
Donaher & Melendy in and d	F
Pere Marquette Lumber Co m and d	A
Foster & Stanchneid in and d Pere Marquette Lumber Co in and d Roby Geo W & Co in and d Ward E B in and d (Detroit)	B
Ward E B m and d (Detroit)	on I
Spafford & Conklin mand d	ter B
Butters Horace m and d	tee V
Canfield & Wheeler m and d	v
Cushman Calkins & Jo m and d (Chicago).	Y
Engleman Salling & Babcock m and d (Mil-	E
waukee)	H
Filer & Sons m and d (Milwaukee)	Ē
Hopkins Bros & Wise m and d	C
Magill & Canfield m and d	I
Magill & Canfield m and d	G
Diller M F m and d	I
her Co)	I
ber Co)	1
Reitz Bros m and d	1
Sibben S p m	1
Sibben's p m	
Tyson Sweet & Co m and d	tou
Tyson Sweet & Co mand d Man Sraman Warren mand d Maple Ray Jones R mand d Maple Ray Gallinger Adams mand d Marat Gabble & Co stayes Marce	ids !
Gallinger Adams m and d	hon
Cobb J & Co staves	ilus
Raird W m and d	City
McElroy C m and d	
Gobb J & Co staves Hunt A S m and d Baird W m and d McElroy C m and d Silvernail & Trumbull m and d Decker Chas m and d Alexander M J m and d Church Nelson m and d Bunce H E m and d Marys Mills N & B m and d Darrow & Walker m and d Darrow & Walker m and d Huntington J L & C D m and d	rion
Decker Chas m and d	
Alexander M J m and dMars	hall
Church Nelson m and d	ville
Bunce H E m and d	
Sanhorn W and d	
Darrow & Walker m and d	ison
Huntington J L& C D m and d	
Peacock R m and d	ville
Drown & Lacy mand d and sash doors etc. matte	rton
Tongs & Jones sash doors etc	
Mather Asaph & Vernon m and d	phis
Mansfield J& Co m and d	
Bagley & Copps p m	onee
Paison A pm	
Wright & Tweedle D m	
Mather Assph & Vernon m and d. Dysinger D m and d. Mem Mansfield J& Co m and d. Bagley & Copps p m. Paison A p m. Stephenson Robt & m and d. Wright & Tweedle p m. Larkin John m and d. Lindeay & Gamble m and d (Detroit).	land
Lindsay & Gamble m and d (Detroit)	

Sias John mand d
Carman & Tone mand d
Randall W& Bro m and dMillburg
Beck C FMonroe
Noble W A
Root & Stevens sash doors etc
Scranton J P
Shaub Phillip
Dowling H P & Co p m Montague
Ferry Dowling & Co m and d
White F H & Co m and d
Moore & Ferguson m and d
Cook Pendleton & Jones s mMorley
Cummer J & Son m and d
Hugh W p m
Fowle Benj m and Mt Clemens
Unit & Shook m and d
Snook Bush & Mosier m and d
Snook T W staves
Tucker EJ m and d
Look Asher p m
Noble W A Root & Stevens sash doors etc Scranton J P Shaub Phillip Terry M G Dowling H P & Co p m Montague Ferry Dowling & Co m and d Weston Bros m and d Moore & Ferguson m and d More W Fowl Benj m and d More W Hugh W p m Fowle Benj m and More W Hugh W p m Fowle Benj m and More W Crittenden Chas d Hall & Shook m and d Snook Bush & Mosier m and d Snook Bush & Mosier m and d Nook T W staves. Tucker E J m and d Hughes Bros m and d Mt. Morris- Look Asher p m Weeks Huntoon & Co m and d Malbey French & Co m and d Muir Begole J & Co m and d Hayes Bros Hewitt W P s m. Rumsey C Jr Waser & Whittman m and d Wager & Whittman m and d Wager & Whittman m and d Bigelow W H & Co m and d Bigelow W H & Co m and d Bigelow W H & Co m and d Browne Nelson & Co m and d Browne Nelson & Co m and d Browne Nelson & Co m and d Eiston Robt s P. Gluc W & Co m and d Eiston Robt s P. Gluc W & Co m and d Kelley Wood & Co m a
Fancher & Brazee m and d
Begole J & Co m and d
Hayes Bros
Hewitt W P s m
Wayer & Fox m and d
Wager & Whittman m and d
Willett A M & J W p m
Reidler Mfg Co m and d
Bigelow W H & Co m and d
Blodgett & Byrne m and d
Charin & Poss mand d (Chicago)
Davis Chauncey & Co m and d
Eiston Robt sp
Gluc W & Co m and d
Kelley Wood & Co m and d (Chicago)
Mann A V & Co m and d
Gluc W & Co m and d. Kelley Wood & Co m and d (Chicago) Mann A V & Co m and d Mason Lumber Co m and d Merrill JD & E W s m Merrill & Palmer m and d (Detroit) Montague C S & Co p m Morrison & Fleuming m and d Newaygo Co m and d Outhwait G T Roberts & Hull m and d (Chicago). Rutherford W & Co m and d (Chicago). Ryerson Hills & Co m and d (Chicago). Sandford S R
Merrill & Palmer m and d (Detroit)
Montague C S & Co p m
Morrison & Flemming m and d
Onthwait G T
Roberts & Hull m and d (Chicago)
Rutherford W & Co m and d (Chicago)
Sandford S R
Torrent Esau m and d
Torrent & Arms m and d
Truesdell Giteon m and d
White Smith & Swan mand d (Chicago).
Wilson & Boyce m and d
Kirtland & Son stavesNashville
Olds A W & Co m and d
Francisco & Bro staves
Johnson W S dNiles
Tuttle Jos S d
Menardi A E m and d
Moyer A m and d
Lawrence Sidney m and
Converse & Wicknam Staves
Baser J m and dOgden Center
Torrent John m and d. Truesdell Giteon m and d. White Smith & Swam m and d (Chicago). Wilcox T B & Co m and d (Chicago). Wilcox T B & Co m and d (Chicago). Wilson & Boyce m and d. Kirtland & Son staves. Olds A W & Co m and d. Baker W m and d. New Baittmore- Francisco & Bro staves Newport Johnson W S d. Nilces Tuttle Jos S d. Menardi A E m and d. Moyer A m and d. Nortonville Bently W m and d. North Branch Moyer A m and d. Lawrence Sidney m and. Converse & Wickham staves. Oakley Peck & Sackridge m and d. Baser J m and d. King T m and d. Ogden Center Hodges J S m and d.
King T mand d

Hall Hiram m and dOrleans	Cartis L B. Saginaw City Gould E F Green & Harding. Hardin & Babcock p m. Heather & Allison m and d.
Smith Kelly & Dwight m and dOscoda Richardson Avery & Co m and d (Alpena). Ossuneke	Gould EF
Richardson Avery & Co m and d (Alpena). Ossineke	Green & Harding
Robinson Cunningham Haines & Co m & d Ballou & Co sash doors etcOtsego	Heather & Allison m and d
Leighton S m and d	
Benson C B m and d Otter Lake Frisbie A H m and d Ovid Sowers Geo D & Co m and d	Ketchum D B s m
Frisbie AH m and dOvid	Ketchum D B s m
Sowers Geo D & Co m and d	Newton & Smith
	Payne A B & Co m and d
Woodward LE	Potts & Prieur
Bathwick & Stevens mand d. Pavilion Sager John mand d. Everett J C sash doors etc. Paw Paw Freeman & Stinson m and d. Brown S A & Co m and d. Pentwater	Rust Eaton & Co
Sager John m and d	Rust & Hay Sturtevant, Green & Co m and d
Everett J C sash doors etcPaw Paw	Sturtevant, Green & Co m and d
Freeman & Stinson m and d	Swift & Lockwood m and d Williams Geo F & Co m and d
Nickerson & Calester m and d	Wright, Tinton & Co m and d and n m
Nickerson & Calester m and d Sands & Maxwell s m Stringer Frank m and d Huckley John m and d Perry Woodworth W H m and d Person McConnell W & Sons m and d Plerson Pangham & Borden m and d Quincy & Bromley s m Stone & Seeley m and d Tarkler & McMullen m and d (Wood Leke)	Wright, Tipton & Co m and d and p m Wright & Wetherell m and d
Stringer Frank m and dPerrinsville	Wille Bros s m Bentley H J m and d St Charles Campbell D J
Huckley John m and dPerry	Bentley HJ m and dSt Charles
Woodworth W H m and dPewamc	Gampbell D J. Freeman & Co. Green D W. St. Charles Kimberley C S. Guerney Chas Jenks B W. Jenks B W. Holcomb & Evans m and d. St Louis Brooks & Adams m and d. St Louis St Louis St Louis
McConnell W & Sons m and d Pierson	Green D W
Pangham & Borden m and d	Kimberley C S
Quincy & Bromley sm	Guerney ChasSt Claire
Stone & Seeley m and d	Jenks B W
Laylor to Mediunen in and a (wood Date)	Holomb & France mand d St Louis
Walter & Bro m and d	Brooks & Adams m and J (Detroit)Salzburg
Wensel & Bro sm and d Pigeon Creek Keeler S S & Co m and d Pine Grove Mills Clements S N m and d Pine Grove Mills	Laderach Bros m and d
Adams F E & Co m and dPine Grove Mills	Malone & Gardiner m and d
Clements S N m and d	
Dania D.C and d	Smith C M & Co m and d Sand Creek Thompson Wm m and d Sand Creek Avery O W m and d Sand Lake
Paris P G m and dPine Plains	Avery O W m and d
Lantz John m and d	Baird & Farnum s m
Paris F G m and d Pine Flains Paris S A m and d Pine River Wood & Maxon m and d Pittsford Richardson J C m and d Plainfield Kent Co Topping M & Sons m and d	Beaver, Miller & Co m and d (Ft Wayne
Richardson J C m and d Plainfield Kent Co	Carr J M m and d (Union City Ind)
Topping M & Sons mand d	Carr J M m and d (Union City Ind)
	Dickinson Jerome m and d
Ward David m and d	Hartt M & S m and d
Bennett C.H	Hartt M & S m and d
Haskells & Spaulding m and dPort Crescent	Pangborn & Borden 8 m
Wood J L & Co m and d	Roberts & Driggs m and d (Grand Rapids)
Wood J L & Co m and d	Stone & Seeley m and d
Bunce Z W & Son m and d	Ware E & Co
Fish A & H m and d	Ware E & Co
Harrington D B m and d	Margar & Clater mandd Sarange
Havnes J m and d	Moffat A J m and d
Hibbard W B & Co m and d	The Sangetrek Lumber Co. m and d
Howard & Son m and d	Abbott Chas m and dScio Township
Johnston John & Co m and d	Bathwick & Stephens m and dScott
Sanborn & Co m and d	Collingham J m and dSebewa
Skinner T S m and d	Friend J m and d
Skinner & Ames m and d	Ambruster & Weimer m and dSebewaing
Rergen D D stayes Portland	Dunn J & Sons m and d Seville Blanchard J C & Co m and d Sheridan
Wells F L Bergen P P staves	Fargo D F & Co m and d
	Stearns J D m and dSmyrna
Erskine E J m and d Port Sanilae Thompson T & J S m and d Prentiss Geo H m and d (Detroit) Prentiss Bay	Beckwith & CoSouth Bay City
Thompson T & J S m and d	Braddock A C & Co p m
Onimby I I, m and d OutlottyOnimby	Miller A & Co m and d
Quimby J L m and dQuimby Alden, Sutton & Co stavesQuincy	Stevens A & Co m and d
Hawley Martin	Watrous Bros & Cosm
Wilbur R W m and d	Watrous M & Son m and d
Exelby Jesse m and d	Byer G W & Co m and d
Pack Jones & Co. m and d Rock Falls	Wilson S P m and dSouth Saginaw
French Geo m and d	Briggs & Co's m
Porter Dennis m and d	Briggs & Co s m
Alden, Sutton & Costaves Quincy Hawley Martin Wilbur R W m and d Exelby Jesse m and d Ridgeway Fritz F m and d Pack, Jenks & Com and d Rockford Porter Dennis m and d Molitor A & Com and d Rogers City Ayer A B m and d Romeo Andre Alex Arnold & Fulsom (Albany N Y) Barnard & Blinder m and d Blanchard C N m and d Blanchard C N m and d	Bundy & Yeoman m and d Curtis & Eastbrook m and d
Ayer A B m and d Romeo	Curtis & Eastbrook m and d
Andre Alex Saginaw City	Boice & Kearny m and d
Barnard & Binder m and d	Marada & Maxwell m and d
Blanchard C N m and d	Monroe Boyce & Co m and d
Burnham, Still & Co	Sisson & Seymour m and d
Butman Myron	Marada & Maxwell m and d Monroe Boyce & Co m and d Sisson & Seymour m and d Cross, Wright & Co m and d Standish Bennett J E m and d Stanton
Butman & Rust	Rock Wm m and d

Poster & Wales am Stanton	Heartt Wm A m and d
Burham & Wales s mStanton Case G F s mStanton	Goodrich Enos m and d
Case G F 8 m	Sufherland I m and d
Gardner D M s m	Curtis & Walker m and d Wayne
Gilbert A m and d	Arnold & Catlin nm
Turner Bros & Co s m	Litchfield E.C. m and d (New York City)
Turner Bros & Co s m	Sage H W & Co m and d (New York City).
Wells & Patchin s m	Hotfield & sinter m and d Wheeler
Withey & Buckaloo m and d	Pack & Beckenridge m and d
Withey & Buckaloo m and d	Dawson Geo m and dSault de St. Maria P O
Francisco & Marcy m and d	Norris & Perry mand d
Stephens, Mellen & Tackles m and d. Stephens Fo	Sormour Henry W m and d
Stronach Lumber Co m and dStronach	Dawson Geo m and d
Johnson, Packard & Austin im and d	Power A B & Co m and d
Wallace Z H & J S sash doors etc	Cone & Green m and d
Harris Myren m and d	Cone & Green m and d
Cameron J C & Co m and d	Cook Leitch & Co m and d
Wallace Z H & J S sash doors etc	Delton & Dro. m and d
Schram E L s m Tekonshi. Aldrich J A m and d Three Os Mc Cann Thos m and d Three Ps Brownell & Dexter m and d Three Rivers	Palton & Bro m and d
Aldrich J A m and dTekonsin	Frenhlin C W mand d
Mc Cann Thos m and d Three Vike	Hoold Avery & Co to and d.
Brownell & Dexter m and dThree hiver	Hedges & Green m and d
Grossett & Pugh m and d. Jackson Geo A& Co m and d. Wilcox, Arnold & Co m and d. Tree Rivere Stone & Shirts m and d. Whitney Bros m and d. Tree Tree Tree Tree Tree Tree Tree Tre	Johnson & Hageman s m
Jackson Geo A & Co m and d	Staples & Covell m and d
Wilcox, Arnold & Co m and dThree Rivers	Waster Brog m and d
Stone & Shirts m and dTrent Pu	Weston Bros m and d Luscomb & Pierce m and d (Milwaukee). White River
Whitney Bros m and d	Luscomb & Pierce mand d (Milwaukee). White River Campbell & Co mand d
Barton D m and dTryon	Harriand IR & Co mand d Whitewater
Patterson Jas m and d	gabafold & Pickard m and d
Stone AT m and d	Wixom
Tucker John B m and d	Wixom & Stoley in and d. Woodbridge
North T & J E m and d	White B in and d Wood Lake
Martin H R m and d Vermontville	Taylor & McMullen in and d. Worth PO
Squier M L m and d	Shafter David G in and d Vnsilant
Perry E m and dVernon Isabella Co	Fullmore & Scovill in and d
Bell & Starkey m and d Vernon Shiawassa Co	Parsons Bros u
Brand JC staves	Parsons Bros d
Sayers Bros m and d	New York & Michigan Lumber Co
Sayers Bros m and d	Rust Eaton & Co m and d
Puddock & Ballantine m and d	Rust Eaton & Co mand d.,
	CAGO.
Adams & Lord, d 368 Lumber street Chicago	Pisite O d at E W 00d
Allen & Bartlett d Laffin s of West 22d	Fisher John & Sons d Robert wend of Hu-
Adams & Lord, d 368 Lumber streetChicago Allen & Bartlett d Laffin s of West 22d Avery Murphy & Co d s w cor Fisk	Fisher John & Sons a Robert wend of Hu-
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Avery Thos M d Canal n w cor Fulton Barton & Jones d Lumber cor 12th	Fisher John & Sons a Robert wend of Ru- ron
Avery Murphy & Co a S w cor Fiss	Fisher John & Sons d Robert wend of Ru- ron Ford River Lumber Co m and d office 242 S Water yard W Throop s of 22d Fox & Howard d Ashland av cor Hickory Franz L & Son d 24th n e cor Butler
Avery Murphy & Co d s w cor Fiss	Fisher John & Sons d Robert wend of Ru- ron Ford River Lumber Co m and d office 242 S Water yard W Throop s of 22d Fox & Howard d Ashland av cor Hickory Franz L & Son d 24th n e cor Butler
Avery Murphy & Co d s w cor Fiss	Fisher John & Sons d Robert wend of Ru- ron Ford River Lumber Co m and d office 242 S Water yard W Throop s of 22d Fox & Howard d Ashland av cor Hickory Franz L & Son d 24th n e cor Butler
Avery Murphy & Co d & W cor Fuston Avery Thos M d Canal n w cor Fuston Barton & Jones d Lumber cor 12th Babecock W S d 400 Lumber Basse & Bruse d Elston av ne cor W Division Batcheller & Slaight d Throop st cor 22d Batcheller & Slaight d Throop st cor 22d	Fisher John & Sons a Robert wend of Hu- ron. Ford River Lumber Co m and d office 242 S Water yard W Throop s of 22d. Fox & Howard d Ashland av cor Hickory. Franz L & Son d 24th n e cor Butler. Garden City Mfg Co d 22d cor Morgan Gardiner John D & Co m and d 520 Lumber.
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Avery Murphy & Co d & W cor Fass. Avery Thos M d Canal n w cor Fulton. Barton & Jones d Lumber cor 12th Babcock W S d 400 Lumber. Basse & Bruse d Elston av n e cor W Division. Batcheller & Slaight d Throop st cor 22d. Bateson Alex d 347 Archer av. Beidler J & Bro d Loomis cor 22d. Bigelow Bros d Fisk n 22d. Bigelow Bros d Fisk n 22d. Bishop & Lull d Throop n 22d. Boardman Packard & Co d 94 Lumber st. Bradley Shepard & Smith d 752 Clark st. Burdick & Mead W 22d cor Blue Island av. Bushnell, Walworth & Reed m and d 562 Lumber st. Calkins & Fisher d 213 Archer av. Chapin & Foss d 214 S Canal st. Chicago Lumber 50 m and d 242 S Water st Chicago Lumber 60 m and d 242 S Water st Cyumb Bros d Division cor Elston av. Chase & Pate d 511 Archer av. Clark Saml D d 70 LaSalle st.	Fisher John & Sons & Robert wend of Ru- ron. Ford River Lumber Co m and d office 242 S Water yard W Throop s of 22d. Fox & Howard d Ashland av cor Hickory. Franz L & Son d 24th u e cor Butler. Garden City Mfg Co d 22d cor Morgan. Gardiner John D & Co m and d 520 Lumber. Gifford Ruddock & Co m and d room 7, 242 S Water. Goss & Phillips Mfg Co m and d Clark s w cor 12th. Goldie W d Eighteenth s e cor Canal Goodman J B & Co d Room 1 261 Randolph Goodman W d 250 S Water. Gray A R & Co m and d 22d cor Throop. Graves D F d Throop n 22d. Gunderson Senit T m and d 238 S Water. Grusendorf & Mueller d foot of Lessing. Hannah Lay & Co d 76 and 78 Lumber. Hartman & Grabam d 238 S Water. Hartway T W d Morgan cor 22d. Hatch Holbrook & Co d 265 Archer av. Hempstead & Beebe d 14 Chicago av.
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Avery Murphy & Co d & W cor Fask. Avery Thos M d Canal n w cor Fulton. Barton & Jones d Lumber cor 12th. Babcock W S d 400 Lumber. Basse & Bruse d Elston av n e cor W Division. Batcheller & Slaight d Throop st cor 22d. Bateson Alex d 347 Archer av. Beidler J & Bro d Loomis cor 22d. Benton Geo C d Union s w cor 22d. Bishop & Lull d Throop n 22d. Bishop & Lull d Throop n 22d. Bradley Shepard & Smith d 782 Clark st. Burdick & Mead W 22d cor Blue Island av. Bush & Hill m and d 242 S Water st. Bushnell, Walworth & Reed m and d 562 Lumber st. Calkins & Fisher d 213 Archer av. Charley Bros & Co m and d 238 S Water st Charnley Bros & Co m and d 242 S Water st Crumb Bros d Division cor Elston av. Clark Saml D d 70 LaSalle st. Combs Park & Co 22d st cor May. Curles Savage & Co m and d 236 S Water st Davis & Murray d 481 Archer av. Calk Sawiner d 96 N Canal st. Cutler Savage & Co m and d 236 S Water st Davis & Murray d 481 Archer av. Dean Bros d Fisks of 22d. Derickson & Sons d Laffin cor W 22d. Derickson & Sons d Laffin cor W 22d. Derickson & Sons d Laffin cor W 22d. Dericker Fred d North Branch cor Division.	Fisher John & Sons & Robert wend of Maron. Ford River Lumber Co m and d office 242 S Water yard W Throop s of 22d. Fox & Howard d Ashland av cor Hickory. Franz L & Son d 24th ne cor Butler. Garden City Mfg Co d 22d cor Morgan Gardiner John D & Co m and d 520 Lumber. Gifford Ruddock & Co m and d room 7, 242 S Water Goods & Phillips Mfg Co m and d Clark s w cor 12th Goldie W d Eighteenth se cor Canal Goodman J B & Co d Room 1 261 Randolph Goodman W d 250 S Water Goodrich W H d 84 Market. Gray A R & Co m and d 22d cor Throop. Graves D F d Throop n 22d. Gunderson Senit T m and d 238 S Water Grusendorf & Mueller d foot of Lessing Hannah Lay & Co d 76 and 78 Lumber Hannah Lay & Co d 76 and 78 Lumber Hannah Lay & Co d 38 S Water Hartman & Grabam d 238 S Water Hartman & Grabam d 238 S Water Hempstead & Beebe d 14 Chicago av Hiliard Churehill & Co d Cologne cor Joseph Hipple & Lestmann d 61 Hawthorne av. Holt Balcom & King m and d (Oconto Wis) 246 S Water Houghteling W D & Co m and d 250 S Water Holmes & Co d 83 Grove Holden H N d Market's e cor Jackson Horn W H d 234 S Water Holmes & Co d 348 S Water
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Johnson A B d 148 KingsburyChicago	Shoemaker & Howell d Throop N-22d Chicago
Kelley Wood & Co 22d s e cor Center av	Soper Brainard & Co d Polk cor Beach
Ketchum Stephens & Co d 258 Sherman	South Branch Lumber Co d 22d cor Loomis
Learned S.J. d Center av s of 22d	Starrett & Bro d W 12th s w cor Lumber
Learned S J d Center av s of 22d Long J Henry d 904 S Halsted	Stephens & Clarke Archer av cor Quarry
Loomis & Davis d 394 Fifth av and Fisk	Stevens Plowdon d 924 S Halsted
Leveland R A& Co d Lumber cor of 22d	Street & Chatfield d Rocket w end of Huron
Loveland & Spencer d 22d cor Lumber	Terry & Bro d w end 18th st bridge
Lowell & Barker d foot of Fisk	The B L Anderson Co m and d Fisk cor 22d
LUDINGTON WELLS & VAN SCHAICK m and d	The Kirby Carpenter Co m and d Loomis nr
offices 244 S Water, yards Loomis N 22d and	22d
ICRR	Thompson H & Co d Quarry bet Archer av
McLaren d cor Franklin and S Water	and the river
McDonald & Roe d Taylor s w cor Sher-	Truesdell Gideon Room 6 242 S Water
man	Turner E H & J S d 84 and 86 Lumber
McMullen & Officer d Throop s w cor	Waldo John d 120 N Canal
Lumber	Waldo Waters & Co d 7 N Canal
Martin S K d 438 Lumber	Walkup & Neebes d 361 Lumber
Mears Bates & Co m and d S2 Beach	Walkup & Neebes d 361 Lumber Washburn Edgar d 195 i8th
Mears C & Co m and d 58 Kingsbury	Weed A & Co W Chicago av
Mendson & Winter d Throop s of 22d	Wilce Stephens & Co p m 22d and Throop
Menominee River Lumber Co m and d office	White Swan & Co m and d 252 S Water
200 S Water	Whitbeck H Company m and d 257 W 22d
Merrill & Skeele d 345 Lumber	head of Fisk
Meyer C J L d 25 W Ohio	Whitcomb R S d 714 W Washington
Minard Ira & Co d Loomis N 22d	Wheelock Sylvester d foot of Fisk
Munro Robbins & Co d W 12th cor Lumber	White Geo E d 122 N Sangamon
Nelson Bros d Grove n w cor 22d	White Joseph of 126 N Union
N Ludington Co m and d office 242 S Water	White Rowell & Co d 34 W Chicago av
Noble & Little d Canal n w cor Carroll av	Wolf Kauf & Essroger d Sebor bet Canal and
Norris Lumber Co d 165 W 22d	Beach
North Branch Lumber Co d 40 Front	Woodruff W N & J F d Grove foot of 19th
Palmer Fuller & Co d W 22d cor Union	CONFINETCOTON
Park & Soper d 775 S Canal Pearson, J N d 60 Lumber	COMMISSION.
Parry Parry & Co. d.S. and Sharman N	Barker Cyrus A 252 S Water
Perry Pearson & Co dS end Sherman N	Bell Robt L Room 2, 252 S Water
Peshtigo Co m and d N Water N pier	Bickford R K & Co 249 S Water
Phillips & Browne m and d Room 2 288 S	Blanchard Borland & Co 242 S Water
	Brown W Room 5, 242 S Water
Pillsbury Bradley & Co d Main n e cor Co-	Calkins W W Room 1, 238 S Water
logne	Carter Artemas 240 S Water
Pond & Soper d W 22d cor Loomis	Deming Chas & Co Room 3, 233 S Water
Porter & Co m and d Room 1, 261 Randolph	Ewer & Aarhaus 288 S Water
Porter & Fuller d 140 Beach	Frazer Jas Room 16, 242 S Water
Queal Robt F & Co d Throop s of T22d	Goodenow & Hinds 234 S Water
Richards Norris & Co d W 22d cor Laflin	Irish Bullen & Co 234 S Water
Rietz Chas & Bro d 27 N Canal	Long John 238 S Water
Roberts & Hull m and d 246 S Water	Loomis John & Co 2 Franklin
Robinson Geo G & Co d Hawthorne av n of	Marsh & Goodrich 252 S Water
gas works	Mueller W Room 2, 288 S Water
Ryerson Martin & Co m and d Room 4 242 South Water	Prettyman W B 236 S Water
Ryan Young & Co m and d 236 S Water	Rice Ed B Room 4. 252 S Water
Sawyer S W d 133 LaSalle	Ripley W 238 S Water
Schulenburg & Boeckler m and d Main	Ripley W 238 S Water Schulenburg Albert 234 S Water
cor Cologne	Simpson Ruddock & Co 238 S W
Spalding Jesse m and d 250 S Water	Southworth W L 234 S Water Williams Thomas 238 S Water
Sheriffs John & Son d Beach cor Taylor	Williams Thomas 238 S Water
701	W A
Steerwalt W dAbbott Carton & Co dAckley	Goodsill & Bro dBedford
Parton & Co d	McConville H & Co Bella Plaine
Rath John d	Henry Jas P dBelle Plaine Lamb & Son m and d (Clinton Ia)
Beymer G W d	Wilson J D d, agent
Parkinson B d	Brown M R m and dBellevue
Gilbert, Hedge & Co d (Burlington Ia)Albia	Strasser & Schleck p m and d
Patton II I. d. Albion	Parker & Upton (hardwood mill)Bertram
Taylor & Bro dAlden	Wise J K dBlairstown
Johnson W W d	St John Jas dBloomfield
Putnam F L d	Eutler & Meek p mBonapart
Wilson John & Co d	Kerr, W B d (*gent)
Chambers Bros & Co m and d (Muscatine	Carr Chas W dBoone
Ia)Allerton	Nowlin Bros d
Madigan M dAltona	Lloyd & Stickney dBrighton
Lamb C & Son m and d (Clinton Ia)Ames	Memer, John d
Jones & Bradley (hardwood mill)	Burdick A (hardwood mill) Bristol
Markham M A d	Morris J W dBrook
Benton WS dAnamosa	Holman T. I. Son. d
Blackburn John S (hardwood mill)Arcola	Conklin & Newcomb d Brooklyn Holmes T J & Son d Small W E & Son d
Bowers & Billmyer (hardwood mill)Auburn	Cass H d Duffaia
Bryant & Sharp (hardwood mill)	Cass H dBuffaio Schuh L & Co m and d
The state of the s	
Ledwick T d	Cook W E & Co s m and m and d Burlington

Berry W S & Co m and dBurlington	Al Ma
Carson & Rand m and d E D Rand & Co m and d	El
	Do
Dickie J & J m and d. Duncan & Hosford m and d. Gilbert, Hedge & Co d. Joy E & Co. Mairn, Gillis & Co p m. Parsons F T & Co d. Winter D & Co p m. Seeley & Shaw d (McGregor Ia. Anthony & McLoskey m and d. Camanche Grafton W H (hardwood mill). Cambridge Green J L d. Hatch & Wingate d. Casey Whitmore E O & Co d. Ford & Zeising d. Cambridge Green & Rowley d. Cather all Lamb, Bing & Co d. Green & Rowley d. Cedar Fall Lamb, Bing & Co d. Center Point Dyer d. Center Point Center Pint Center	Pe
Joy F & Co	Ro
Millard Frank & Co d	W
Nairn, Gillis & Co p m	Ca
Winter D& Co D m	Di
Seeley & Shaw d (McGregor IaCalmra	In
Anthony & McLoskey m and dCambridge	K
Green J L d	Ls
Hatch & Wingate dCasey	L
Whitmore E O & Co dCedar Fall	W
Lamb, Bing & Co d	D
Green & Rowley dCedar Rapids	K
Lamb C & Son m and d (Clinton 1a) Dyer d	B
Boiles & Co d	P
Gilbert, Hedge & Co d (Burlington)Charles City	G
Grimmels H. sash, doors, etc	M
Mitchell & Fletcher d	S
Parker & Gennels p m Chelsea	D
Archer Jas d	8
Andrews & Harrison, sash, doors, etc. Charles City	F
Hull J M & Son d	P
Osgood & Kimball d	N
Rucktaschel Geo dClayton	H
Woodford & Johnson dClear Lake	D
Rucktaschel Geo d	V
Toice & Smith sash doors etc	Ġ
Curtis Bros & Co sash, doors etc	I
Young W J & Co m and d	E
White & Bedow	8
Baldwin & Maxwell d (Iowa Center)Colo	E
Hobbie & Bro dConover	Ì
Seely & Shaw McGregor Ia	4
Beyiner A M & Co d Corning	I
Waldon Allen dCorydon	1
Baldwin & Maxwell d (Iowa Center). Colo Hobble & Bro d	N
Hongland Geo T & Co d (Hannibal Mo)	1
Young & Co d Cresco Fleming W J d Creston Rand E D & Co m and d (Burlington Ia) Creston Rand E D & Co m and d (Burlington Ia) Cromwell Ballas Center	1
Fleming W J d	5
Rand E D & Co m and d (Burlington Ia) Cromwell	
Easton J S d]
	;
Kirk F, sash, doors, etc]
Lindsay, Phelps & Co m and d	
Price. Hornby & Kehoe m and d	i
Price, Hornby & Kehoe m and d Benwick Wm m and d Roberts & Rohrbach, sash doors etc	
Roberts & Rohrbach, sash doors etc	
Schricker & Mueller m and d	
Flemning W & J d (McGregor Ia)Decorah	
Knowles J d	
Chandler M dDelman	•
Dupuis M d	1
Dupuis M d. Dennison Wheeler & Warner d. Dennison Carver Young & Co d Des Moiner Collins & Shyrock d. Des Moiner	3
Collins & Shyrock d	
Gilchriet I K & W H d	
Heath H R sash doors etc	
Sypher R W d	0
Buckley John d	t
Heath H R sash doors etc. Sypher R W d Getchell & Son (Des Moines Ia). De Sott Buckley John d. Butterfield Thos F & Co d.	
Kettering & English p m	

Po-ton	
Allen & Boss dDexter	
Elerich James dDowd's Station	
Dow & Graves d	
Pelan & Randall m and dDubuque	
Robison J M m and d	
Weston Burch & Co m and d	
Clarke & Scott m and d	
Dubuque Lumbor C m and d	
Ingram Kennedy & Day m and d	
Knapp Stout & Co m and d	
Lumbert E R & Co d	
Lembeck H & Co sash doors etc Dunlap	
Dyer Henry dDyersville	
Krapfl A d	
Brown Doty & Co dEagle Grove	
Puckitt Daniel d Fortham	
Getchell & Son d (Des Moines) Earlyille	
McGavic E J & Bro d (Keokuk)Eddyville	
Sage E T & Co dEldora	
Dimond & Winden m and dElgin	
Sutter Lewis & Co d	
Tomblin D M dEmerson	
Pond E G (hardwood mili)Emmitsburg	
Wilson J J & Co d	
Phipps J W d	
Pand F D& Co m and d (Burlington)	
Whitmore Seth dFarley	
Gabelman Fred dFarmington	
Duckworth Cook & Co m and d	
Blowers & Clark (hardwood mill)Forest City	
Brown H C dFt. Dodge	ĺ
Conway Owen d	
Atlee Saml J & Co m and dFort Madison	
Gibbs E A d	
Inkman & Felix d	
Miller N B & Co	
Blaufuss F dFranklin Center	
Baelton A m and d	
Slipper John & Bro m and d	
Woodford & Wells d	1
Marsh & Lambert d	,
Tistleson O d	1
Hankins & Ruggles dGlidder	1
Park C B & Co d	1
Jansen C d	
Barnum, Case & Co dGreen	1
Davis & Kelsey d	
Hobart Chas & Son d Conthei	
Benson, PT dGuttenbergl	n
Goetz, Adam d	
Phelan & Zimmerman m and d	
Wikoff A H d	g
Smith H J & A J d Hampto	11
Lane & Hollister d	k
Flusher A H hardwood mill	n
Ingram, Kennedy & Day m and d	1
(Dubuque Ia)	
Allen & Boss d	-

2110 77 450 11111	
Stout Z & Co dIndependence	Martin S & Co d
Winnegar & Manny d	Burdick E E d
Zinn E d	Smith Thos P & Bro d
Baldwin & Maxwell dIowa Center	Norwood D d
Musser R & C d	Grove James d
Porter J W d	Ketchum L & Bro d
Carlton J H & Bro d	Ludham Bros pm
Hoag, Zeno d	Submainar T d
Hoag, Zeno d Richardson J C hardwood mill	Boyd D L d
	Wick J E dmurray Station
Taylor Thos d. Kellogg Hayward d Kellogg Andrews J H d. Keokuk Hosmer & Baldwin m and d.	Chambers Bros & Co m and d
Hayward dKellogg	Garlock John S d
Hoemer & Ruldwin m and d	Hershey & Irvine m and d
Mc Gavic & Co d	Hoch E d
Magoun & Co d	Kirk W T p m
Scroggs J W d	Stine S G d
Wells, Felt & Spaulding m and d	Union Lumboring Co. m and d
Marshall Joshua m and d	Turner & Bellany d Nashua Dillin CD d Neola Lockridge W d Nevada
Butterfield & Co dKnoxville	Dillin CD d
Bonley & Garrison d	Gordon Burt & Weston d
Miller Sam'l dLamville	Nicholson & Fowler d
Albert E T & Son dLansing Hemingway Barclay & Co d	Swazey L T d
Johnston S B d	Swazey L T d New Hampton McLaren & Meyer d New Hartford Williams E d New Hartford Kalbach Isaac & Son d (Oskaloosa). New Sharon Atwater & Hoskins d Newton
Merrill & Smith m and 4	Kalbach Isaac & Son d (Oskaloosa) New Sharon
Klingaman & Felt dLa Porte City	Atwater & Hoskins d
Fleming & Bro d (McGregor Ia)Lawler Zepley & Van Sant m and dLe Claire	Hanson A P d
Fairchild R C d Le Mars	Hanson A P d
Naples & Alline d	Brown T H dNorway
Revmer A S d Lenox	Brown T H d Norway Harper W L d Oelwein Sylvester F d Ogden Station
Cole Warren Jr dLeon	Sylvester F dOgden Station
Staples Isaac m and d (Stillwater Minn) Beymer A S d	Wheelock & Adams dOnawa City
Pancoast Joseph dLisbon	
Smith P E d Liscomb Schofield & Son hardwood mill Little Sioux Goreham & Pelton d Lost Nation Peterson Aug. d Lowden	Refer Theo hardwood mill
Schofield & Son hardwood millLittle Sioux	Spurr C E d Onslow Chute & Cotton d Osage
Peterson Aug. d. Lowden	George & Lizotte p m
Barnum J H dLyons	Harding G F hardwood mill
Buffum G A d	Huntington & GriswoldOsceola
Joyce & Smith m and d	Gilbert Hedge & Co d (Burlington)Osceola Rand E D & Co m and d (Burlington) Kalbach Isaac & Son dOskaloosa
Langford C E d	Kalbach Isaac & Son dOskaloosa
Joyce & Smith m and d Langford C E d Magill Chas H d Stockwell Ira m and d Daubenberger & Strauer m and d McGregor Fleming W & J m and d	Leighton C d
Daubenberger & Strauer m and dMcGregor	Snyder & Duke pm
Fleming W & J m and d	Flemming W & J m and d (McGregor 1a) Ossian
Seeley & Phelps m and d	Kiser J M dOttumwa Millard J J & Co dOttumwa
Moninger Ringland & Summers dMalvern	Thornburg d Oxford
Place A D d	Wilson J W dOxford
Buckley G R d	Kettring A & Co hardwood millPalo Clarnock C dParkersburg
Manchester Manufacturing Co	McGavie E J & Bro dPella
Bradley Geo T d	Newport B F d. Perry Dean E J d. Plainfield
Calamer Stephen sash doors etc	Mores W H d
Joiner Bros & Co d	Mores W H d
Ketchum & Bro dMarengo	Mott J S
Morrison A J d	McGavia F.I.& Rro. d
Wood Geo F d	Steinbeck Silas d. Quarry Bryson & Son d. Red Oak Junetien
Wood Geo F d Cunningham D W d Marshalltown Stoddart H d d d d d	Bryson & Son dRed Oak Junetion
Stoddart H d	Rogers & Son d
Ulsh Fostrier & Brewer d Marysville	Clark J & Co d
Lyman W H d (agent)	Myers & Peck d Rockford Emerson & Fay d. Roskford Comstock D F d. Russell Long E & H M m and d. Sabula
Sprague M A d	Comstock D r dRussell
Griffin B d	Long E & H M m and dSabula
	Risley & Day m and d
King W W dMediapolis	Rhames John N d
King W W d . Mediapolis Funk W O d . Melrose Merrill L & Bros d . Millville	Howe W B dSaylorsville
44ill M & Son d Mindurn	Risley & Day m and d. Shaw D & Co m and d (Ean Claire Wis) Rhames John N d. St Ausgar Howe W B d. Saylorsville Reeves Bros d. Seuly Station Caughran J D d. Shelby Shelby
Brown & Gregory d	Bradley S S dSheldon
animoni & Mitchell a	

Lane H C d	Cadle C F & W L d
De Wolf James d	Paft D C stave factoryYankee Settlement
Taylor J C & Bro m and dVan Meter MINNI	
	Jackson & Russell, dEyota
Getchell, C. S. & Co., m and d	Paul & Stone, m and d. Butler, Chauncey Litchfield Leavitt, S. W. Hill, E. G. & Bro. m and d. Little Falls Sherman, W. L. d. Lyle

Walker, Judd & Veazie m and dMarine Mills Langdon, N. B	Lindsay G W m and d
Farnham & Lovejoy m and d Rollins, John Ross, J. R. sash, doors &c	Anoka Lumber Co m and d
Ross, J. R. sash, doors &c	Grant, Mc Caine & Co m and d
Gaines, Cook & Co. m and d	Keller John M, m and dSt. Paul
Wheaton, Reynolds & Co., sash,doors &c	Evans E E & Co m and d
Bedford, Boyce & Baker m and d	Prince John L m and d
Ankeny, W. P. & Bro. m and d Bedford, Boyce & Baker m and d Clark, F. P. m and d	De Cou & Co sash, doors etc
Copeland, Jesse & Son, p. m	Metter & Heritage m and dSt Peter
Crocker Bros. & Lamereaux m and d	Snyder, Damsen & Co m and d
Bray, Wilder, & Co. d Day, L. & Sons m and d	Mc Clure T C m and d Sauk Center Boulter & Burget m and d Sauk Rapids
Dean, Joseph & Co. m and d	Wilder J A d Shakonee
Eastman, Bovey & Co. m and d	Mirns T m and dSilver Lake
Eldred, W. H. s. m	Harriman S m and dSomerset
Judd, W. S. m and d Langdon, R. B. & Co. p. m Morrison Bros. m and d	Coleman C L m and d (La Crosse Wis) Spring Valley
Morrison Bros. m and d	Paul John m and d (La Crosse Wis) Bronson & Fulsom m and dStillwater
Pettit, Robinson & Co. m and d	Hersey, Bean & Brown m and d
Russell & Co. p. m	Hersey, Bean & Brown m and d Staples Isaac m and d
Smith, Parker & Co. p. m	Seymour, Sabine & Co m and d
Washburn W D & Co m and d	St Croix Lumber Co m and d
Ingalls Bros. d	Proctor J S (Secy. St Croix B Co)
Ingram, Kennedy & Co. m and d (Eau	Nelson U N logger
Claire, Wis.)	Tozer David logger
Hitter, F. m and dMonticello	Chalmers & McMillan
Avery Jas T Morris	Durand E W
Adams, C. D., stave m'f'g	Mc Kusick, Andersen & Co m and d
Pettit, Robinson & Co. m and d. Russell & Co. p. m. Smith, Parker & Co. p. m. Union Planning Mill Co. p. m. Washburn, W. D. & Co. m and d. Ingalls Bros. d. Lingram, Kennedy & Co. m and d (Eau Claire, Wis.) Hitter, F. m and d. Monticello Douglass, James d. Moorhead Avery, Jas. T. Mooris Adams, C. D., stave m'l'g. Morristown Herchey & Son m and d. Norton R M m and d.	Mc Kusick, Andersen & Co m and d Mower Martin. Schulenberg, Bæckler & Co m and d
	Schulenberg, Bæckler & Co m and d
Osterhant Jas m and d	Ellison, Smith & Co m and d Taylor Falls Folsom W H C
Keen & Whitcomb	Fox P
Dwinell E C sash, doors, etc	Mc Court J H
Mann Chas W	O'Brien John
Stewart S P m and d	Ingraham, Kennedy & Gill m and d (Eau
Whittle & Curlaw m and d	Ingraham, Kennedy & Gill m and d (Eau Claire, Wis) Wabasha Smith Warren d Waseca Elliot d
Payne J M & Co m and d	Elliot d
Mungerd Grey m and d Oneota	Durr PeterWaverly
Phelps Bros m and dOtsego Frazie R L m and dOtter Tail City	Halbrecht
Frazie R L m and dOtter Tail City	Cole & Laird · d
Backus Bros	Coleman C L m and d (La Crosse Wis) Whalan Hays W W
Murray A G d	Paulson John
Pine City Lumber Co m and d (St. Paul). Pine City Fife W W d	Robbins A B
Fife W W dPreston	Gillaland Thos d
Cogel & Betcher m and d	Hubbs Chas L d
Red Wing Mill Co m and d	Balcom J & H CWinona
Stout Jas H m and dReed's Landing	Gage A W & Bro Horton & Hamilton d
Buttles & Herrick p m Rochester	Horton & Hamilton d
Dodge W H d	Knight, Bennett & Co m and d Laird, Norton & Co m and d sash, doors &c
Laird, Norton & Co m and d (Winona).	Langdon A sash, doors etc
Robson John m and d (Winona)	Robson John m and d
Martin S A m and d Rush City	Rose O sash, doors etc
Reiley, Short & Co m and d	Tucker 0 C
Taylor & Co m and d	Crocker Bros & Lamereaux m and d
Parker G R (Agent) d	(Minneapolis)Worthington
Foss O p m	Sater I N d
Clark NP m and d	Cram Jas sash, doors etcZumbrota- Hubbard, Wells & Co m and d
Cluck & Mc Clure m and d	nuovaru, wens a co m and d
MISSO	DURI.
Hill & Co Alexandria	Phelegan Willis & Balding dBelton
Neure F & Son	Scott Geo W & Co d
Summers & Scoonover	Haines Chas saw millBerger
Fieler Robt & Bro m and dAltenburg	Hoehn Chas saw mill
Schmidt Jacob m and d	Nelson & Smith saw mill
Wyckoff & McFarland d Anniaton City	Graham Jas saw mill
Weinhold Marton Wyckoff & McFailand d. Appleton City Thompson J. C. Jr d. Arrow Rock Carth H. C. d. Arrow Rock	Bedford Bogarnus & Co p m and sash
Garth H C dAulville Sparks W W d	lactory Bloomneid
Sparks W W d	O'Neil Jas saw millBolivar
Waterman J C & Co d (Maryville Mo)Barnard	Wilkinson Hiram saw millBoonsborough

Jones B F dBoonville Roberts & Lee d	Miller W H & Co p m
Roberts & Lee d	Pinger Chas & Co d (St. Joseph Mo)
Thro JE d	Price J B d
Thro J E d	Skinner & Co sash doors etc
Eales T T d	The & Co
Plumb & Co d	Parmer & Jones d (Pleasant Hill Mo) Harrisonville
Matlack Geo & Co d (St Louis Mo)Brownsville	Rice John d
Matlack Geo & Co d (St Louis Mo)Brownsville	Lang Geo d Hermann Hubbard E L d Holden McMillen Jas d Holden
Moore Jas & Co d	McMillen Tee d
Moore Jas & Co d	Mills T M d
Wilson Peter saw millBuffalo	Starkey & Christian d
Rogers Francis d	Cutter Morgan & Co saw mill Holt Station
Pitcher Adams & Cathron saw millBurdett	Evans & Brierton Saw mills
Warner & Son dButler	Waterman Goodsell & Bro d
Warner & Son U. Calhoun James & Sappington saw mill. California	Stretton M saw mill
Nischwitz C F d	Wiles S S d Houstonia Stratton M saw mill Humansville Hurd C d Huonewell Brookings Jas R d Huntsville
Ross Geo d	Brookings Jas R dHuntsville
Ross Geo G. Callao Matis John H d. Camden Point Maupin & Elliott d. Cameron Steiger Bros d. Canton Canton Canton	Smothers & Taylor d
Maupin & Elliott dCamden Point	Gates & Anderson dIndependence
Steiger Bros dCameron	Shortridge John (agent)
	Shortrage John (agend) May Edwhnn and d Ironton Lilly & Smith d Janesport Bush & Becker d Jefferson City Eaton Henry d
Ellis Wn d	Bush & Becker dJefferson City
Stanes Nelson n m	Eaton Henry d
Morris James (agent) dCape Girardeau	
Crouch W S dCarrolton	Wallendorf M saw mill Jonlin
Hampton John P d Stapies Nelson p m Morris James (agent) d Cape Girardeau Crouch W S d Carrolton McDonald W d Carthage	Wallendorf M saw mill Joplin Reding John S d Joplin Anderson James d Kansas City
McDonald W d	Chaster Melville & Co d
McCarthy & Gilbert d	Crawford & Crouse saw mill
Moore Bros d	Deardorf L. d
Moore Bros d	Dubock & Co d (Hannibal Mo)
Street & Bro d	Leach & Hall d
Robinson James & Co saw mill	Indwig Thos J nm
Trans Harrimon & Worlds d	Dubock & Co d (Hannibal Mo). Leach & Hall d Lovejoy G W p m Ludwig Thos J p m Merrill J W d Temple Jas d Kidder
Williams R R & Co d	Temple Jas dKidder
Williams R B & Co d	
Hughes B DClarkville	Sharp L R d
Hughes B D. Clinton Carpenter W H d. Clinton McAllister & Bowling d. Columbia Lœhofner & Tegeler d. Concordia Morton J W saw mill. Corsicana	Perkins G H d Knob Nostor Cathers D B d La Cleage
McAllister & Bowling d	
Morton I W gary mill Corsicana	Quinsperry & Farmer La Plate Living & Co d. La Plate Wilson J S d (agent) Lathrop Lawson
	Wilson J S d (agent)Lathrop
Lacy Chas C d	Montgomery & Brock dLawson
Bradley W J saw mill	Vauston & Loop saw min Lebanon
De Lassus Placide d De Lassus	Montgomery & Brock d. Lawson Vauston & Loop saw mill Laynesville Lingsviller John d. Lebanon Smith & Appling saw mill Adom Lepr W & Co. d. Lee's Summit
Vineyard Jas d	Smith & Appling saw mill
Rurroughs R & Co d	Adams Isaac W & Co d Lee's Summit Collins & Anderson d Lexington Hale Robert & Bro d
	Ballard Patrick dLexington
Gillett & Gowen saw mill Bettie Bowen John R, jr saw mill Egypt Mills Sheppard Elijah saw mill Egypt Mills Tandy, Stearns & Dorsay, saw mill Ellenorah Elston E saw mill Elston Station	Marshall Ben d
Sheppard Elijah saw mill	Waples A C d Liberty De Forest & Co saw mill. Licking
Tandy, Stearns & Dorsay, saw mill Elenoral	De Forest & Co saw millLicking
Lang & Bro saw mill Farmington Douglass & Bro p m Fredericktown	Jones & Granger saw millLincoln
Douglass & Bro p m Fredericktown	Carson Geo L d
Kennedy & Thompson p m	Dreyfus Hill & Co d Eau Claire Lumber Co m and d (Eau
Farmer & Jones d (Pleasaet Hill Mo) Freeman	
	Edison Nichols & Co (Clarksville)
Rirch T E ir d	Freeman & Co m and d
Lester Eugene W saw mill Gayose Birch T E, jr d Glasgow Lewis C H d Glasgow	Edison Nichols & Co (Clarksville) Freeman & Co m and d
Harrold John S saw mill	Graham F M & Co saw mill
	Grandin I at the or
Hope Geo D d	Whitener & Son saw mill
Simmons H D Greenfield	Wilkinson W J Jr saw mill
Reddie Geo d	Coleman & Stagner d
Allen & Knowll	
Cruikshanks John Jr d	
Cruikshanks John Jr d Davis Bockee & Garth	Tapscott A W d
Dorman Uriah	Waterman J C & Co d (Barnard)
Dubach D & Co	Goodale L N U
Dulaney & McVeigh	Marks Abe d
Hannibal Union Works sash doors etc	Contamouth & Co d
Hearne Herriman & Co	Meyer John d (St Louis)
Hibbert Jehn V sash doors etc	Wright Josiah d
Northwestern Lumber Co m and d (Eau	Meyer John d. (St Louis)
Claire Wis)	Hill M C saw mill

Stanley & Stickler d Milan Carter C C d Missouri City Firth Wm d Moberly	Schuelle & Querl, n. Main st dSt. Louis
Carter C C d	Phillibert & Johanning, planing mill, 1502
Firth Wm d	to 1518 Market st.
Hassett Bros d	to 1518 Market st. Theo. Bloess, Carondelet Ave. cor. Barten
Hassett Bros d Petering E H d Porter W W & J B d	d August Leisse, 609 Chouteau Ave. bet. 6th and 7th sts
Mother John J. d	and 7th ata d
Mathew John L d	Rockeler A & Co m and d
Kerr Wm d Montrose	Boeckenkamn & Surkamn cor. 9th and
Kerr Wm d Montrose Morgan P A saw mill Morgan's Milis Bacon F M d Mound Clis Barber & Herms saw mill Neosho Neosho	Menree sts. d
Bacon F M d Mound City	Lobsinger, Meegan & Co., Caronderet in
Barber & Herms saw mill Neosho	and d
Neosho Planing Mill Co	Clear Water Lumber Co m and d
Neosno Pianing Mill Co. Robinson James & Co'sash, doors etc Carey saw mill Nevada City Gleland J W d New Ada City Southwick & Goodall New Cambria Fitzhugh J S d New Florence Forrest R W d Norborne Johns T R d North Springfield Kennedy & Druhe d	Heitz & Ganahi, 1320 Jackson st. d
Carey saw millNevada City	Methudy & Meyer, commission, 22 s.
Gleland J W dNevada City	Main st
Southwick & Goodall dNew Cambria	Berthold & Jennings, commission, 28 s.
Fitzhugh J 8 dNew Florence	Main st
Forrest R W dNorborne	Beldsmeier H W & Co Eastern av d
Johns T R d North Springfield	Williams & Allord, Commission, 100 s.
Kennedy & Druhe d	Main st
Raithel J G d	Clement H S commission
Berry & BrosOmana	Cole & Glass p m
Petty J J saw mill	Co Stemana Baint Wish St James Hotel
Potter B T dOregon	Co Stevens Point Wis) St James Hotel
Carter M S saw mill Usage City	Dwyle W d
Cerny & vader saw mill	Durdon & Paid d
Rennedy & Drune d Raithel J G d	Davitt John W d
Maxwell J B d and saw mill	Hocker & Hengelsberg d
Armick IF d Otterville	Holmes J A & Co d
Potter & Wharton saw mill	Hymers Ed H d
Haveor PS saw mill Overton	Hymers Ed H dLuthy Jas d
Williams H d Pacific	McIlvain Robt d
Kiser Wm B saw mill	McIlvain Robt d
Ross & Kennedy saw mill	Meyer John, Cass av d
Bower G M dParis	Meyer John, Cass av d
Wilson Wesley d	Mississippi Planing Mill Co (Jas Patrick
Luthey Franklin dParkville	Pres't)
Harper & Ball dPendleton	
Killian J C saw mill Perryville	Nuelle W & Bro mand d
Crist Bros dPhelps City	Nuclie W & Bro m and d
Barton J H dPierce City	Rippey Geo W & Co d
Tribble Andrew d and saw mill Platte City	Sterling John p m
Hockaday J N & Son dPlattsburg	Wright J C & Co p m
Stearns d Beegle & Meyers d Pleasant Hill Farmer & Jones d	Yaeger H C South Main st commission
Beegle & Meyers dPleasant Hill	Houges & Sous Saw min
Farmer & Jones d	Wofford CP & Co saw mill Soling City
Hope Arthur d	Thornton J saw mill
Boyce B F & Son sawmill Point Pleasant	Wofford C P & Co saw mill Saline City Thornton J saw mill Saline City Dulaney Thos G d Salisbury Wayland Ely d Solisbury Young Geo saw mill Savannah Waterman & Nast d Savannah
Barkley David saw millPotesi	Voung Goo gam mill
Smith Chas D saw mill	Waterman & Nest d Savannah
	Bleoss W & Co dSedalia
Walton & Co d	Gauss C H d
Tener John D. d. Richmond	Pitter Richard d
Payabar F H saw mill Richwoods	White & Meyer d
Tranh Geo & Co d	Warren W dShelbina
Watton & Co 6 Cadle Henry 6 Leeper John P 6 Baugher E H 8 kichmond Braub Geo & Co 6 Cruesbour Chas 8 kola Rockport 8 kola Cruesbour Chas 8 kola	Ralph Jas dShelbyville
Cruesbour Chas d Russell Giles saw mill. Russell's Mills Holrah & Machens d. St Charles Smith Job d. St James Thummell W G d. DeClue John p m St Joseph Dougherty Ray & Co d Hamilton Bros saw mill.	McBride Jr C saw millSilver Lake
Holrah & Machens d St Charles	Hendricks & Co saw millSouth Point
Smith Job dSt James	Ganahl Fidel dSouth St Louis
Thummell W G d	Lobeinger Meegan & Co m and d
DeClue John p mSt Joseph	Knott & See p mSpringfield
Dougherty Ray & Co d	McDonald O G dStewartsville
Hamilton Bros saw mill	Shapter Wm saw mill
	Marbes Chas d
Lyon Geo d Pinger Chas & Co d	Hannestein W saw milluscumbia
Pinger Chas & Co d	Mabrey ThosTwin springs
Smith & Swone saw mill	Vandalia Station
Waterman & Barnard d Dillip Gruner, Jr., s. e. cor. of 9th st. and Cass Ave d St. Louis Woerheide & Luehrmann, planing mill, 813	Manda W W d Verona
Filip Gruner, Jr., s. e. cor. of 9th st. and	Town W d Warrenghurg
Uass Ave d	Moore & Kinsell d
Woerneide & Luenrmann, planing min, 813	Schowengendt E & Son d Warrenton
Cass st	Trentman, Uarup & Co p. m
Schulenburg & Boeckeler m and d	Fletcher W d
Lesley, Garnett & Co., planing mill, 124 Olive st	Miller Jacob d Wellsville
Parker Spencer & Co. 3.922 Broadway m	Allen Jas P dWeston
Olive st	Wells John B saw mill
Knapp, Stout & Co., Bremen Ave m and d	Morse C C dWindsor
Patrick Bros. Lumber Co., Bremen Ave d.	Bleoss W & Co d Sedalia Gauss C H d Ritter Richard d White & Meyer d White & Meyer d Ralph Jas d Rilph Jas d Rilph Jas d Shelbina Ralph Jas d Shelbyille McBride Jr C saw mill South Point Ganahl Fidel d South St Louis Lobsinger Meegan & Co m and d Knott & See p m Springfield McDonald O G d Springfield Shapter Wm saw mill Taos Marbes Chas d Tipton Hannestein W saw mill Tuscumbia Mabrey Thos Twin Springs Willard P G & Son d Uties Savage E d Vandalia Station Mundy W W d Verona Lowe W d Schowengendt E & Son d Warrentom Moore & Kinsell d Schowengendt E & Son d Warrentom Trentman, Uarup & Co p m Washington Fietcher W d Warelly Miller Jacob d Welleville Allen Jas P d Weston Windsor

NEBRASKA.

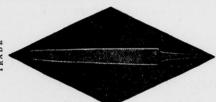
NEBRASKA.	
Dean, Dennis & Co d. Ashland Wiggerhorn E A d. Lyman & Co d. Beatrice Parst & Marsh d. Bell Creek Crowell C C & Co Blair Bell John R d. Brownville Clemans A F. Coleraine Turner & Hulst d. Columbus Sawyers & Leach d. Covington Caldwell & Slade d. Crete Graves & Williams d. Fairbury Jaynes D P d. Fa rfield Edwards H L d. Fairmount Lyon J F d. Falls City Rickards & Merrill d. Falls City Rickards & Merrill d. Falls City Hongland Geo & Son d (St Jo Mo). Grand Island Peck & Meston d. Hastings Cox d. Hebron Tinker E P d. Humboldt Sullenberger, Newton & Landon, saw mill. Ionia Hedges & Granger d (Sioux City Ia). Jackson Van Alstyne W L d. Lincoln	Godfrey & Co d Lincoln Grant P J d Sover W G & Co d Louisville Morel & Lashley d Louisville Moore & Sunderland d Lowell Hill W E d Nebraska City Monroe & Dillan d Lowell Hill W E d Nebraska City Hoagland Geo T & Son d (St Joe) Omaha Young & Co (Clinton Ia) m and d Moyer A sash, doors etc Turner Chas d Papillon Tisdale F A Jr & Co d Pawnee City Gardiner & Robinson d Pebble Creek P O Waterman H A & Son d Plattsmouth Faulkner B & Co d Schuyler Barrett W B d Son d Sutton Monell, Lashley & Weed d Sotter I Saac B & Son d Sutton Monell, Lashley & Weed d Tecumseh Sanders Wm d Duadilia Crowell C C & Z A d West Point
KANSAS.	
Kuney J & Co d	Patterson J C d. Girard Dudgeon F A & Co d Grasshopper Falls Brinkman G L d. Great Bend Bunting John d. Hanover Treat M J R d. Hays City Bause J P d. Hiswatha Spear I N d. Hiswatha Spear I N d. Dickey Jason d. Holton Williams & Woener d. Humboldt Stevens & Co d. Humboldt Edwards W C d. Humboldt Edwards W C d. Hutchinson Bradford McCoy & Co m and d (Quincy III). Independence Cuiver & Rewe d. Iola Hunt E S d. Irving Rogers L F saw mill Island Boller H A d. Junction City Stickney A C d. Green M T d. La Cygne Bruce C & Co d. Lawrence Grovenor & Reddington Lewis & Allen d. Lewis & Benson d. Simpson Bros d. Angell & Foster Lewis & Henson d. Simpson Bros d. Angell & Foster Lewis & Colly & Beckford d. Ingersoil Jerome d. Munson & Burrows p.m. Plummer & North saw mill. Spartley & Taylor saw mill. Spower & Bradshaw d. Lenexa Green & Byrne d. Macpherson Haight & Touts d. Manhattan Richardson & Clark Marysville Thomas R A & Co d. Neosha Falls Covert Parsons & Cozine d. Newton Dorman & Corsline d. Newton Dor
Filkins D J. Thorne W H d. Fredonia McCoy W d. Gardner Crane J P d. Garnett Flickenger Robt saw mill Geary City	McNabb J A d. Hunsicker Issac K d. Osage City Gittings Louis d. Osage Mission Mills D C & Bro d. Oswego McDonald Kemper d. Ottawa Richmond Bro d. Oxford

Daihl W saw mill. Ozaukie Thayer J E & Son d Paola West A S & Son d Paola West A S & Son Mallis J A d Parkervile Calkins & Fisher d (Chicago III). Parsons Mixell W d Peabody Vinneman B & Co d Peabody Chenault Bros d Peabody Chenault Bros d Peace Blaker & Bro d Peasanton Horr Henry d Peasanton Horr Henry d Pomona Ricksecker G V d Peasanton Waterman & Hobbs d and sash doors etc Russell Yoxall Sons & Co d Sabetha Turner & Sons d St Marys Eberhart & Sudendorf d Salina Goodnow Frank d	Pendleton B H d. Solomon City S L Choate d. Spring Hill Rogers J C & Co d. Spring Hill Bradford McCoy & Co m and d (Quincy Ill). Thayer Reed C d. Topeka Tipton Bros d. Topeka Tipton Bros d. Troy Boetcher A F & Co. Wamego Prunty Jas L d. Washington Baker A M (agent for Hixon & Co Hannibal Mo). Waterville Jehnson & Bridges Palmer & Orton d White Cloud Taylor & Ortons, saw mill. Davidson & Switzer d. Wichita McClure W P & Co d. Millis & Stearn d. Pierce C F d (Emporia Ka).

BLACK DIAMOND FILE WORKS

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THE

Wisconsin Lumberman

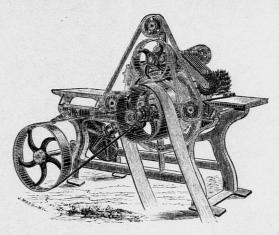
Is devoted exculsively to the Lumber interests of the Northwest, and will endeavor to become the champion and advocate of all measures pertaining to the welfare of those interests. Statistics and information will be gathered and examined with great care, that The Wisconsin Lumberman may become standard authority with the manufacturers and dealers throughout the Northwest.

At least one member of the editorial corps will be traveling almost constantly through the Pineries of Wisconsin, Minnesota and Michigan, seeking information, statistics and opinions from reliable sources. Illustrations of prominent lumbermen and scenes throughout the different pineries will form a prominent and attractive feature of The Wisconsin Lumberman, thus rendering it a pleasant and welcome visitor to the family of every Manufacturer, Logger, Landowner or Raftsman in the Northwest.

THE WISCONSIN LUMBERMAN will be increased in size in proportion as its patronage will warrant. It is for the manifest interest of all persons engaged in lumbering to assist in substantial manner our efforts towards furnishing a class publication that shall rank first among its kind.

THE WISCONSIN LUMBERMAN PUBLISHING CO., Grand Obera House, 64 Oneida St., MILWAUKEE, WISCONSIN.

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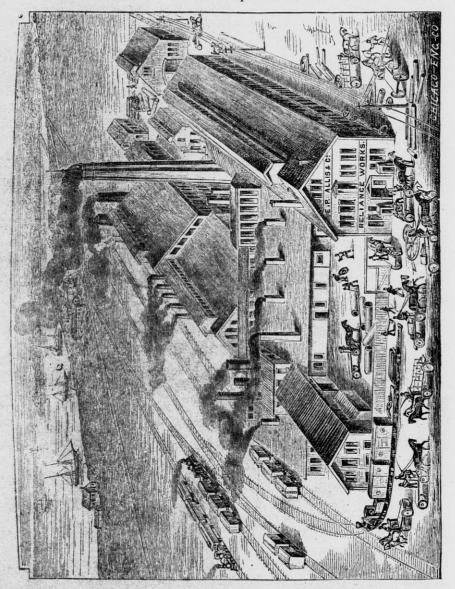
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