ation of the laws and conditions that govern the matter, the following rule is given.

For pulleys from two to twenty-four inches face, the convexity should be from one-eighth of an inch to one-sixteenth of an inch to a foot, graduated inversely as the width of the faces; for pulleys of narrower face the convexity can be slightly increased.

This is quite sufficient to govern the running of belts, and a necessity for more can safely be constructed as a fault in the position of the shafting.

**RAILROADS AND LUMBERING IN MICHIGAN.**


A correspondent of the Grand Rapids (Mich.) Post, writes from and about St. Louis, of the same state, as follows:

This summer resort for testing and enjoying the benefits of the mineral water here has but few invalid or pleasure-seeking visitors in the winter. During about three months the bath house is kept in operation and the hotels and boarding houses are full. But since the Saginaw & St. Louis railroad has been opened there is some compensation in it for the loss of summer popularity. This being the western terminus the citizens of surrounding towns resort here for business and further travel. The village has a gradual growth, but the inhabitants are anxious to have a western road also. Without it some fear that the present road will not be continued in operation. But the St. Louis, Fruitport & Grand Haven road is now confidently expected. The company have already caused their bonds to be registered in all the counties through which they expect to build their road. They even contemplate building eastward from Saginaw to connect with the Canada Southern road. The road will undoubtedly be built between here and the lake, though delayed somewhat by the financial pressure of all such enterprises. Many towns have a deep interest in the construction of such a road, as Alma, three and a half miles west of this, Ithica, our county seat, lying south of the line, cannot be benefited by it. Although the St. Louis road runs from Saginaw through the woods and rather low lands chiefly, on either side of it is higher ground, good for tillage. The road drains the portion where it runs, and after the valuable timber is taken off, it will be converted into good grazing land.

The season has been good for skidding logs and getting out staves, but snow is needed for hauling, the mild winter, not on the whole favorable for lumbering, could not have come in a better time, when many would prefer to have no pines cut at all. A little abstinence in the business will increase the price of lumber, and those who wish to make purchases need look for nothing cheaper than at this time. Prices will stiffen as soon as demands come.

Considerable hard wood, hewn timber, is being hauled now to the line of the road. The quality seems very desirable.

The late heavy wind felled a great number of trees in the forests here in addition to those prostrated by the fire of two years since. A dry season next summer would greatly endanger the country, especially the standing timber all around. So many trees now prostrate and the burning would create so hot fires as to destroy large numbers of green standing trees. But the winter being dry, the summer may be wet, or not dry. “Sufficient unto the day.”

**THE GREEN BAY PINERY.**

A correspondent of the Green Bay State Gazette reports as follows:

**COOK’S MILL, LILY LAKE.**

This mill has started up and is running in good shape, averaging 125 M shingles per day, and 15 M to 30 M lumber. Four logging camps. Doing well.

**WOODRUFF’S MILL**

has been running four weeks. A limited number of hands. Manufacturing lumber and shingles. A planing mill attached.

**MCLAREN’S MILL**

on the Shawano road, has started up, having made alterations in its running gear. Expect to be in fine order in a few days.

**MCCARTNEY’S MILL**

has been running some weeks, principally on orders for bridge timber. Has quite a large force in the woods, and is rapidly hauling out the last year’s crop of lumber. This establishment has over one hundred hands in its employ, in the mill, the woods and on the road.

**UPHAM BROS.**

expect to get out three million feet of logs. Have thirty to forty teams hauling to Seymour. Running on shingling and lumber.

**OLSEN CO’S.**

are cutting 125 to 130 M shingles a day. Has run the steadiest of any mill in these parts for the last seven months. Has 30 to 40 teams hauling the last year’s cut to Little Suamico. Intend, as soon as possible, to run night and day. This company will employ 125 hands until the breaking up of the season.