DURABILITY OF LUMBER.

The Wearing Value of Different Woods Used for Building Purposes.

Many persons are familiar only with the growth of building lumber around them; hence they are often deceived. Yellow or southern pine is very desirable. All are as familiar with it as with cedar; but, says an Illinois farmer in a communication to Rural New Yorker, it has a perfect facsimile in spruce and tamarack, both very perishable woods when exposed to the weather. They can be used to advantage only for inside work, such as flooring.

Most prairie people are not familiar with hemlock as a fencing or building lumber, but they know the durability of black walnut and poplar. While the eastern man might not know how to estimate the western product, so the western man buys the eastern spruce, tamarack and hemlock lumber and finds, to his sorrow, that all are very perishable, even if well painted. I find that lumber will last twice as long when weather-boarded straight up and down as when boarded sideways to the weather.

A great deal of sweet gum weather-boarding comes here, as do many California redwood shingles, both strange to me as regards durability. Farmers should know of the wearing values of the lumber they use. Roofs and porch floors are invariably laid with spruce or tamarack in this section, while the builder has paid a top price for yellow pine; hence the sills rot out in three years owing to the defective covers.

The wearing value of weatherboarding is in the order named here: Yellow poplar, black walnut, white pine, sweet gum, hemlock, spruce, tamarack. Hundreds of buildings here are forty to fifty years old. Those were weatherboarded with Indiana yellow poplar and never painted, but they are still in a good state of preservation. The days of black walnut shingles and weather boarding are past, but lots of old pioneer buildings of this material are yet in fine condition. This wood with age takes on a moss of an iron rust color. The wearing value of fencepost timber in this section is about as follows: Red cedar, mulberry, osage orange, white cedar, black locust, white oak, jack oak, black walnut, ash, hackberry.

Pump for a Well.

The kind of pump and the power to drive it will depend largely on the quantity of water to be raised. For a moderate amount, or only a few hogsheads a day, Country Gentleman says:

The best form of chain pump with rubber buckets to be worked by hand will answer a good purpose. After trying different kinds we find it both cheap and efficient. When the well is nearly full of water and the height to be raised is not great a man will pump a barrel in a minute, but when the water is low in the well more force is required. The common pump worked with a lever handle is much less efficient. On the other hand, a larger quantity may be raised with a windmill, provided the locality favors a steady and reliable breeze and you know of a good manufactured one (out of the many in market) which has been used some years without getting out of order. Or you may drive a large pump with horses by the use of a tread power, or a steam engine may be employed. The choice from these different ones may depend on needed quantity, on your facilities at hand and on your opportunities for procuring the best appliances.

Agricultural Colleges and Stations.

At the annual meeting of the Association of American Agricultural Colleges and Experiment Stations at New Orleans much time was occupied with considering the collective exhibit to be made in the Agricultural building at Chicago by the colleges and stations. Satisfactory progress in the work of preparation was reported, and it is expected that this will prove one of the most interesting features of the agricultural exhibit. It will represent, among other things, the entire work of a progressive experiment station. This exhibit is under the direction of standing committee of which Director Armsby and H. E. Alvord are chairmen.

It was voted by the association that a bust of Senator Morrill should be placed in the library of every land grant college of the country. The seventh and next convention of the association will probably be held at Chicago in October, 1893. At the last convention W. A. Henry, director of the Wisconsin experiment station, was elected president of the association. M. A. Scovell, director of the Kentucky station, was elected secretary and treasurer.

Cut Leaved Trees.

In selecting trees for one's grounds a variety in effect can be gained by the introduction of trees with gracefully cut leaves, such as the cut leaved alders and birches, for instance. The cut leaved birch standing out by itself on the lawn is decidedly effective. It is a very graceful tree and suited to either small or large lawns. There are also several desirable varieties among the cut leaved oaks.

On the Country Road.

Prune the orchard any time when the leaves are off. It may be plowed at such time without injury.

When the clover is all fed out there is nothing better to follow it. Prepare to raise more of it next year.

Expenses for wagon repairs will be less if made before absolutely necessary. Besides avoiding accidents the rolling stock of the farm will thus last longer also.

Have you any young and thrifty apple trees that are not of such varieties as you would now select? Then mark them for grafting next April to a profitable sort.

Do not be afraid of dissolved South Carolina rock if bought from a reliable dealer. It acts more quickly than ground raw bone. The phosphoric acid in it is just as valuable as the phosphoric acid in boneblack or in raw bone.—The Philadelphia Farm Journal.

Are We to Have Great Estates?

A writer in an agricultural paper says that in the early settlement of New England the pioneers made the mistake of thinking they could get a living off a small bit of ground, as many of them had been accustomed to do in Europe. But the land was not rich enough for that, so after the first cream of it was skimmed off it was found that the little Columbia farms of Vermont and the adjacent region were not large enough to afford a modern farmer all the comforts he required. Consequently the buildings were abandoned and the farms were thrown together, gradually making one or two out of what had been half a dozen. The empty buildings remain deserted, and the cry goes forth of abandoned farms. This is the writer's explanation.

But this does not cover the ground. The fact stands that while farms close to cities are being cut up into town lots, the reverse process takes place forty miles away from them. As a city man accumulates a fortune in trade or manufacturing, the ambition seizes him to become possessed of a farm. He visits some rural neighborhood where, owing to lack of pluck and hustling with their brains, the natives are just able to keep soul and body together. He buys up several of these dilapidated farms at a price which astonishes the natives, and they drop out of possession.

The rich man pours his dollars out like water upon his new possession, and models it exactly after the plan of the great country estates of Great Britain—several square miles of land occupied by tenant farmers, with a magnificent central mansion for the proprietor. In cases not a few the former owners of the land become the tenants of the new rich man and never after possess ground of their own. A little ready money and the not being obliged to use their own head to make plans is the bait that lures them on to change from independent land owners to a mere agricultural tenantry. In one case in Ulster county, N. Y., sixteen farms were bought by one man and thrown together to constitute the great model farm which is the show place of Wallkill valley. One can hardly blame the rich city man. If anybody is to blame it is the small farmers themselves. But this process goes on steadily in the older parts of the country.

Humanitarian Church Work.

The church everywhere seems awakening to the necessity of moving on the works of the enemy from the ethical and sociological side. One of the latest organizations for this purpose is the Christian Social union, an Episcopalian society, which held its first annual convention lately in Baltimore. The general purpose of the union is to promulgate in theory and practice the doctrine that the moral and ethical teachings of Christ are to be the absolute authority among mankind. Professor Richard T. Ely, the well known sociological writer, is one of the prime workers of the union. He resigned his place as a member of the faculty of Johns Hopkins university at Baltimore to become professor of political economy in the University of Wisconsin.

It is certain that the Christian churches have taken a new and rousing departure within the past half dozen years. They seemed suddenly to realize that if the church was to help redeem the world and bring the kingdom of the New Jerusalem to earth they must take hold of practical humanitarian work, and all the wisdom, all the intelligence of the best sociological scholars of the time must be brought to bear on the problem of making mankind clean, comfortable, healthy and honest. To do this they have concluded that something else is necessary than preaching a theological sermon on Sunday. The Salvation Army perhaps is to be credited with setting the present wave in motion. The Baltimore convention advanced so far in its work of promoting Christian union as to adopt a constitution permitting any person who belonged to the Episcopal church to belong to this Christian Social union.

If all the boys born this summer and fall and named for Christopher Columbus live and thrive, there will be enough of them to make a whole political party twenty-one years from now.

$500 Reward!

WE will pay the above reward for any case of Liver Complaint, Dyspepsia, Sick Headache, Indigestion, Constipation or Costiveness we cannot cure with West's Vegetable Liver Pills, when the directions are strictly complied with. They are purely Vegetable and never fail to give satisfaction. Sugar Coated. Large boxes, 25 cents. Beware of counterfeits and imitations. The genuine sold by JOHNSON, PRATT Co., 23 and 25 Main Street, Salt Lake City.

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Nothing remarkable about that! She was fair to look upon, as a matter of course; and the dazzling effect was produced by her white robes—cleansed and brightened by a liberal use of

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