Mexico. The prize they hope to win is a valuable one, as the amount of tin the United States buys from England is said to be worth twenty four millious of dollars a year.

DAKOTA TERRITORY, U. S .- There are some big mining schemes proposed now-a-days, and among the latest is, that a French syndicate will purchase a group of mines west of the Homestake mines, build 25 miles of railway to carry the ore to the Redwater River, and set up and run a thousand stamps

Support.-There seems to be so little generally known about mining and the value of mines, that I think an occasional article on that subject

rould not be out of place.

The great lumber trade, which has for a great number of years been the main production of our fair Dominion, is destined in the course of a few years to fail the districts which it formerly supported. This is an undeniable fact, for the lumbermen are not going to float logs hundreds of unles when they can easily, and with much less expense, erect mills on their limits. Therefore, it is but natural to suppose, that these places which are deprived of there industrial pursuits, will look for something else as a substiinte. That mining will be the substitute can no longer be doubted. Hence the necessity of those who formerly derived a livelihood from the former to gin all the information they can concerning the latter.

Now, in this article, I will speak of the value of mines, and what is and that is not a valuable mine. Any mine which pays from ten to twenty dollars per ton of 2,000 lbs., is a valuable mine. By "paying" I do not man a profit, but the total value. To pay ten dollars to the ton it would require in a gold wine, half an ounce of gold; in a silver mine about ten ornces of silver, and in a copper mine about sixty-six pounds of copper to the ton of quartz. This pays. I do not say that it is what would be called avery rich mine, but it is at least a paying one, and that is sufficient to induce capitalists to put their money into it. Indeed, much lower figures hire paid in other places, but taking the average location of Canadian mines,

I do not think that anything less would pay in this country.

Now, the question arises, what is a mine paying ten or twenty dollars a ton worth? This depends on certain other conditions. In the first place the width of the vein must be taken into consideration. If the voin is only minch or two in width the mine is valueless, unless it widens very rapidly. But if, on the other hand, the vein is from eighteen to twenty-four inches wide, and does not show any indications of "pinching," then the mine is ray valuable; indeed it may be worth millions to the min who works it.

Of course copper, phosphate, and such like minerals, would require to be

found in much larger voius to be really valuable, but for gold and silver a rein of this width is, perhaps, the most valuable that can be had. Luger

reits do not generally carry a steady p reentige, and are very apt to "pi ch" before they have been worked to any great depth.

There are two classes of mines, the 'prospect' and the mine proper. The former is merely the vein as it is found, with whatever surface showing there my he, and its value is usually in proportion to the indications which it has dan increase on sinking. This sort of a claim never commands a very lish price, for there is always a certain risk coupled with the purchase of it. No man should ever sell a claim of this kind, if he can by any means sisk a "test hole" on it. But many poor prospectors, after they have paid the Government for the land, have nothing left to develop it.

In a previous article I spoke of the mining laws, and changes which should be made in them. One of these changes was in regard to the purches of land from the Government. I suggested that the American plan ought to be followed, and the land be given to the prospector free, the Govenement charging a royalty on the mineral taken out as its turiff. If this seedone, the prospector would be able to develop his claim, and "prospect" clims would become a thing of the past, while the prespector would receive

the full value of his property.

The mine proper is simply a vein upon which a shaft has been sunk and thedirection, increase and value of it shown. This sort of a claim always premands a high price, if it is at all valuable, for the risk of which the apitalists talks in the former, is no longer apparent in the latter, and he is blied to pay full value for it.

WHAT COAL CONTAINS - A careful estimate made by an Euglish chem st, The contents or constituents of a ton of coal, presents some interesting as not familiar certainly to unscientific minds. It is found that besides u, a ton of coal will yield 1500 pounds of coke, twenty gallous aumonia ale, and 140 pounds of ordinary gas coal tar. Now, destructive distillation of this amount of coal tar gives about 70 pounds of pitch, 17 pounds of resole, 14 pounds of heavy oils, about 9½ pounds of naphtha yellow, 63 cands of naphthaline, 4½ pounds of naphthol, 2½ pounds of alizarine, 24 cands of solvent naphtha, 1.5 pounds of phenol, 1.2 pounds of aurine, 1 1 orads of aniline, 0.79 pound of tulolide, 0.40 pound of anthracine, and spound of toluene-from the last-named substance being obtained the er product, saccharine, said to be 230 times as sweet as the best cane sugar.

la 1873 the total quantity of Nova Scotia coal received into the Province Quebec amounted to only 187,050 tons, while in 1886 it reached 538,762 in Last year Montreal alone received by water from Picton and the spelleron coal ports 448,737 tons, while 85,000 tons came over the I. C. and Grand Trunk railways from Spring Hill and other mines in the Enberland district, other ports of the Province received about 120,000 resistant those mining centres. Last year's importations exceeding that of the over a hundred thousand tons, it would not be surprising if the true, when made up for the summer of 1888, show that over 700,000 not Nova Scotia coal have been brought into the Province of Quebec.

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