ne navigable streams to transport the needed ammodities both ways.

Would it not, however, be prudent to take crenot to exhaust this apparently inexhaustalle supply of the products of pine forests? It is not past experience demonstrated that they can and probably will be exhausted, and that te, more speedily than most people would supper possible? Few persons, unless in the nothwest, are fully aware of the magnitude when this lumbe trade has acquired, and of the raid at which it is contantly increasing; and probably fify years hence little of those valuable forests will remain.

Ihave thus adverted to a few of the evils threatened to the agricultural interests by the wholesale and indiscriminate destruction of timbernow going on in most parts of the United I will not enter upon the discussion of many other interesting considerations which the custion suggests, such as leaving the whole oun'ry bare of shade and foliage and unattracire to the eye, as well as the cerain future garcity of wood for fuel and timber, for fencing, gip and house building, and the many purposes for which it is indispensable in the mechanic ata The subject is certainly important, in a estional as well as an economical point of view. tertain it is that should the present wholesale detruction of timber go on increasing, as it bidifair to, with the increase of population, without the adoption of some plan to renovate thos: valuable forests, posterity will have little reason to thank us. No large extent of country, towever fartile, can be very desirable as an shode to man without a fair proportion of timbered land. Wood is almost as necessary to evilized man as the bread he eats .- G. DE Neveu, in Cincinnatus.

## More Light Underground-

Science is intended to give us a shield against the ills of life. A people that sits still, and rows their calamities as simple "visitations," arst have fallen back upon the savage life. An lishian priest, called upon to bless a plot of and where a few blades of corn were contend ing with the enemies which usually beset them will-managed soil, gave the applicant a sensible "It is of no use for me to bless your had," said the priest; "what you want is manure." At one time the people of this counhis were accustomed to resign themselves pious hto flood and draught. In these days of progess such visitations are regarded only as the poper punishment of indolence and slovenly management, since they have been disarmed by the drainer's tool and the two inch pipe. tace has taught us to catch the lightning and wadnet it inocuous to the ground. We shall probably at some future date control storms of rind and rain, and until we have found out the

secret necessary for this feat, we continue to insure ourselves against their effects, so that their fury, instead of being discharged with crushing force upon the shield of one individual, is received harmlessly upon the united shields of the We are continually finding out that we are not the sport of unseen powers to the extent we once held to be the case, or in the manner the peasants of Norway and Sweden believe themselves to be. We have learned that we need not propitiate the wind or the rain, the lightning or the frost, the fever or the fire. mighty has surrounded us by certain conditions, subversive of life, not that we should be victimized, but that, having the will, we should rise superior to them, and that in the act of battling with circumstances, we should undergo that discipline which is necessary to the full development of our manhood. We are superior to the elements At one age or another man has rearound us. garded himself as the creature of circumstances, but experience has taught in so many cases that he is the master of circumstances, that he may well arrive at the conclusion that he is the master of all circumstances. As to "inevitable laws," there are very few such straight lines to constrain us, save our duty to the Great Maker, and for the rest laws are finite, and retain their supremacy only so long as human experience retains its present scope; to morrow may change all, and either give us a new view which may result in a new law, and the abrogation of an old one, or such a view as shall change the application of the old law.

The farmer who, next to the sailor, seemed to be the most helpless and exposed of human creatures, has of late years gained considerably in this sense of mastership. While he has been busy in producing food, his friend the chemist has been unremitting in his attention to certain influences which for ever were opposing his efforts. These which were represented as antagonisms, and so impersonated, were discovered rather to be negative than positive influences: influences arising rather out of the indolence of man than such as specially aroused themselves to counteract his inactivity. Sir Humphry, Davy, Liebig, Lawes, and Gilbert, have each shown that nothing is wanted to save farmers from the losses to which they have been exposed, but such a knowledge of the agencies around them as shall enable them to work with them, to subject them to their will, and to use them for the production of desired results.

Perhaps no chemist has given the farmers more assistance in this respect than M. Boussingault. From the laboratory of that most persevering of experimentalists they have from time to time received highly valuable contributions to scientific discovery. Never has he given a record of experiments there conducted of greater interest than those recently published under the title Agronomie, Chemie Agricole et Physiologie. He has been directing his attention to