searcely any improvement over the ordinary tract in question. difficulties of working new land; and this land to this day is not more easily worked than stumpy land, so far as roots are concornel. True, the stumps are certainly not there, but the roots are not more decayed th in those attached to the stumps. In fact, from some cause, I do not think they are as much so, and this point has often been a matter of wonderment and a scource or much

I have a theory, that the decay of stumps is to a great extent due to a pernetual attempt of the sap to continue to perform its regular functions at its appointed season, and the natural evaporation from the drying up of that part exposed to the air furnishes a certain deman l. The roots, having no such demand from grabbed stumps, do not therefore become alternately wet and dry, as others ordinarily chopped do, but remain always wet. This opinion is strongly supported by the condition of some stumps under a sheep shed, that I examined and dug out a short time since. They had been covered up with manure, and all but the claysed since they were chopped. The top that protruded above the manure was quite decayed, but the roots were absolutely green-yes, quite green. I showed many of the smaller abrous roots to some intelligent people who happened to be present, who were equally surprised with myself. was no sprout whatever, nor ever had been, from this stump, as the shed was built in 1861, one year after the land was chopped, so there was time enough for decay to have affected the roots, unless some preservative action had been going on, attributed to the moisture of the manure. The kind of timber was 13-inch basswood and beech.

a part that had been uncleaned for eight years, and found the stumps, so far as the roots were concerned, quite decayed, and easily jerked out by the oxen, but these had been exposed to wet and dry, sun and air, ' and consequently to a continual ascent and descent of sap, which probably accounts for 'cient size to make a waggon-load in a place. the difference.

ceed much better than the old plan. He, a great mistake; they ought not to have ex- in their germination by the hot dry weather. .

when you attempted to plough there was operations that he left me to look at the

## LCANING AND BRANDING

We now came to the blackest job of all, but at the same time, one which I always took great delight in, namely, the firing logheaps. The art consists in first having a good, well and closely, piled log-beap, and next in having a good breeze of wind to assist the combustion. The end of the heap is the best part to light first, provided the wind suits, as the fire more readily gets a thorough hold. The attendance on the heaps must be continued into the night, otherwise there will be some that spread out whilst burning, and then do not consume so

I always found more difficulty in leaving the fallow when fully alight than the wish for rest could overcome. It seemed such a pity not to keep punching away first at one heap, then at another, as the attendance thereby given so much improved the fireand then a succession of such jolly bonfires and I always did love a bontire-and these

were such good ones-so it always ended in my wor' ng out in the fallow, literally enbeen so during rearly ten years that had the heaps were partly burned, and looked almost out, I almost regretted leaving them at all. However, after branding up and again punching in the outside logs, they were soon all smoking again; but the effect of the fires is for less exhilarating by day than by night. With us, we had such a quantit; on fire, that I determined not to follow this course again, but to log for about three days, and if the weather proved dry, to burn, and brand up this piece before firing any more. This plan gives more time to collect ashes, which, of course, must remain ungathered as long as the heaps are burning. We sometimes raked them as fast as the We cleared out our farm-yard lastyear, in heaps consumed, but it took a great deal of time, and when we came to carry them there was usually fire remaining in them, which endangered the waggon box. So, on the whole, we found it better to deal with about five acres at a time, and by using hand-barrows to carry the ashes into heaps of suffi-

We logged in this way all the summer of I had a visit the other day from a friend 1861, and our one yoke of oxen did the of more theoretical than practical know- whole of it, and without accident, except to ledge, and he actually was about going on one which strained his foot, which laid him new land with the full conviction that trees 'up for a few days; and the other was sick a can be grubbed out, and the land thus while from being overfed with ground grain. cleared, and that the advantages of this A quart of melted lard poured down his course would far overbalance the cost. Of throat soon restored him, and he continued course, I used all my experience in persuad- to log steadily until the frost came. Of ing him to think twice leftre doing any-course, we drew aside the rail-cuts for fencthing of the kind, and at all events to try ing as we progressed, but in this respect we one acre before buying a tract of five hun- were careless and improvident. We thought dred or six hundred acres with the certain twenty to twenty-five acre fields would be conviction in his own mind that it would suc- small enough for so large a farm, but it was

like old land-no stumps anywhere, but however, was so bent on his own plan of ceeded ten or twelve acres each. And, when we found too late the inconvenien o of such large fields, we also found that the rail timber from which to construct the fences to make the fields smaller was all burnt up, and we suffer from the neglect to this day. We certainly saved some first cost, as twenty-inc acres do not require nearly so many rails as two twelve and a half acre fields, but it was a serious mistake notwithstanding.

> Another was, we did not make "worm" enough to any of our fences. We thought to make the rails go as tar as possible, consequently, the time rails, being all hardwood. were during rainy weather as slippery as cels, and the least wind would level rods on rods of them. In fact, it was hardly possible to get over one of these unstaked and unridered fences in wet weather without throwing down several rails.

> Another error was, we did not attend sufficiently to the entire burning up of the large swamp timber, such as elm, basswood, and hemlock. Many of these were ultimately left, and when the smaller timber was consumed, there was nothing to bure them up with, and they continued to cumber the fields until some stumps were ready to come out, when we succeeded in consuming these old stumbling-blocks.

> Another evil is, to run over the swampholes and frog-ponds, leaving the fallen timber in them. We had better far have hanled it out while we were at it, and made all clean, than allow them to remain unburnt. In the one case we have productive pasture land, which can be cut for hay, and often produces the heaviest crops, whilst in the other, we have a pestilent mess, that remains year after year until grown up to willows and sedge, affording no food for cattle, and proving a regular breeding place for mosquitoes.

## Silver Beet as a Manure Plant.

I noticed in a recent number of The Weekly Globe an account of the growth of a plant called Silver Beet, and a recommendation to plough it under as manure. I at once procured some seed to test the rapidity of its growth, and, as advised, I soaked it in warm water twenty-four hours, and sowed it in drills two feet apart, scattering the seeds along the drill at about three inches from seed to seed.

As the weather was very hot and dry, and I feared the seed might not come up, the sowing was delayed until the 18th of June, which I considered very late; the ground, however, was good, and the sowing was made immediately after the heavy rains we had at that time. The depth at which the seeds were buried was about two inches-not more—as I was advised to be most particular in that respect. The seeds did not come up very regularly, but were somewhat delayed