The Uses of Clover.

It would be very difficult to over-estimate the importance of this coop to all farm is engaged in mixed husbandty. Its introduction into lingland produced an entire recommon in the Agriculture or that coan try. Clove, laid the foundation or all those wise systems of rotation that have since made the Agri-culture of England a model, and a marvel to the world. Nor is its importance much less in those sections of America where its values are appreciated and rightly applied, Clover is valuable

As a forage plant.
 As a fertilizer.

As a forage crop, its special value is in the quan tity and quality of the bay that it produces, and the rapidity with which it comes to maturity after being sown. Clover properly cared, is almost equal to sown. Clover properly cared, is almost equal to good Timothy, for beef cattle, and much superior to all other hay, fo. milch stock. In pasture, the same relative values hold with the addition that, for hogs, clover is a grand specific, superior, perhaps, to all other grasses.

The specific value of Clover, however, lies in its wonderful powers as a fertilizer. In this respect it is unequated by any crop grown on the farm. The different ways in which it adds to the fertility of land

are chiefly:

1st. Shading the surface of the soil. Owing to its rapid and le variant growth it soon forms a close and heavy covering over the soil, that acts as a mulch in

heavy covering over the soil, that acts as a mulch in protecting it from the scorehing rays of the summer sin. At the same time that the soil is protected the weeds are smothered out, and the land cleaned up. 2nd. By acciding and disintegrating the soil. Clover possesses peculiarly long and powerful tap-roots, that penetrate deep, loosening the soil and admitting the air. Thus rapidly changing the physical condition not only of the soil, but of the subsoil also.

3rd. Bu effective inverting the physical changes, neces-

3rd. By effecting important chemical changes, necessary to enrich the earth with plant food. Its abundance of tolinge enables Clover to gather from the atmosphere immense stores of gasses that give life to the plants, which its far reaching roots send deep down into the earth. Thus a clover field becomes, as it were, a great reservoir for plant food. And clover itself becomes a great commissary, collecting food from the earth and the air for whatever crop that may follow.

4th. By precenting washing. The Clover mulch breaks the force of the hard beating rains, while the roots hold the soil in a mat as it were, thus prevent-

ing it from washing

6th. As a green manure Perhaps no crop is so valuable for turning under in agreen stage, as Clover. In addition to the immense amount of rich vegetable matter in its abundant 100is, the plant itself is extremely rich in all the materials necessary to the healthful growth of succeeding crops.—Dixie Furmer. 440-

How to Use an Axe.

MARK TAPLEY, in his "Home in the wilderness." thus discourseth: "To use perfectly the American wedge-shaped are (and here let me say that it is the only axe for felling timber and doing everything with which is worth one straw), requires no ordinary degree of skill and practice.

"Strength, of courses, has something to do with it, still a man of only moderate muscular power would beat a giant into being ashamed of himself, if the reaker man did, and the stronger man did not. know

now to wield an axe.

"The axe I prefer for all ordinary purposes ought to weigh about Slb., and it should be carefully mounted or 'hung,' as the term is, on a springy, rightly curved hickory handle.

"Let us supposeyou are going to fell your first tree: be careful to discover how the tree leans, and always choose that side towards which it inclines to begin on; by doing this you avoid the risk of falling the tree on yourself. Stand off from the trunk, so that the edge of your axe blade can touch the centre of it, whilst both your hands are grasping the handle before the knob at the end of it, purposely made to prevent it from slipping out of the grasp in the act of chopping.

"Fix your eye on a spot about three feet from the ground on the tree trunk, mantyour feet firmly, look carefully behind you, to make sure that there are no small twigs or branches to intercept the axe; then holding the handle by the extremeend, not too firmly, or it will jar your wrists, and whirling the axe at arm's the edge down on the proper slant, the blade should be nearly buried in the bark and timber; it you do not it will 'glanco,' and then look out for your legs. Repeat this cut if you can; an axe-man would, twice similar weeds.

or three times following, in the same place. Should the tree be, forexample, four feet in diameter, chopia the nextcut you make three feet lower down than where you made the first cut, but, this time, horizontally, always bringing the ave round at arm s length. This will give you the rightsized chip, to use a lumb ret s phrase, or, what he means, in other words, is, that the three-feet notch will enable the chopper to make the and shape of tools, and the knowledge of their use. wedge end of the tree break in the centre of the One man makes a constant outlay of strength, while stump; if you took a smaller notch, as more out of ten another will apply it only at an essential point, and stump; It you took a smarter hotel, as mue out of ten inexperienced men would do, you would find your axe jammed before you could chop half way through the trunk; hence the length of the chop is always in proportion to the girth or diameter of the tree to be felled. Cut half way through the tree, always keeping the lower surface horizontal and smooth, as if planed, proportion to the girth or diameter of the tree to be felled. Cut half way through the tree, always keeping the lower surface horizontal and smooth, as if planed, then change and begin on the opposite side to that hept and used for starting the split; it is not apt to on which you have been chopping, precisely in the same way as you began the other cm, when you are presented and starting the split; it is not apt to making a few cheeks with an axe near together, nearly through, the tree will crack oft, and of course fait in the direction to which it leaned, that is, away the same way as you began the other cm, when you are proposed and starting the wedge between them, or by rubbing fait in the direction to which it leaned, that is, away the same way as you began the other cm. from von."

The Early Rose Potate.

THE following account of an experiment with the early Rose Potato corresponds in its general tenor with many other reports which we have seen, and which lead us to form a very favourable opinion of this new variety:-

'As the Early Rose' is now presenting itself to the agricultural public, and is receiving, as every new source of and claimed improvement should receive, a thorough test and trial of its merits, perhaps a few words in relation to my own personal ex perience with it the past season would not be amis-

Being attracted last winter by its presentation in the December number of 'The Practical Farmer,' I was induced to purchase some of them at the ener mous price of \$3 per pound; and with one of these pounds I will state my treatment and success, deem-ing it might be interesting to some of your practical

"The pound of potatoes contained nine tubers "The pound of potatoes contained time tubers. Owing to the enfavourable spring, and not receiving them till late in the season, I did not succeed in planting them till May 26th. On the 20th I proceeded to cut them for planting; the eyes had started growth by which I was enabled to cut them in single eye pieces. Some of the middle or large eye pieces I divided, making from the nine potatoes one hundred and eight wheat at 16 s which grows they were planted. and six plants, all of which grew; they were planted without any extra preparation of the soil, the ground being manured, ploughed down, and marked out about four inches deep, and planted with phosphate in the row, kep, the ground mellowed by frequent harrowing, and about blossoming time drew a little litt towards the row. They occupied just one hundred feet of row

"September 11th I proceeded to dig and weighthem, and from the one pound planted, I had just one hundred and one-half pounds of potatoes, and what was still better, ninety-three pounds of them were large merchantable potatoes, such as will bring the highest market price. Their shape accords very much with that of the White Mercer; their color a dull rose; inside, flesh pure white, and exceedingly starchy and fine. In short I consider them a great acquisition to the grower of potatoes and cultivator of the soil.—Cor. of The Practical Furmer."

Advantages of Underdraining

Warma, in his "Elements of Agriculture," states hat the advantages of underdraining are many and

important, and enumerates the following:

1. It entirely prevents drought.

2. It furnishes an increased supply of atmospheric fertilizers.

3. It warms the lower portions of the soil.

4. It hastens the decomposition of roots and other organic matter.

5. It accelerates the disintegration of the mineral matters in the soil.

6. It causes a more even distribution of nutritious matters among those parts of soil traversed by roots. 7. It improves the mechanical texture of the soil.

8. It causes the poisonous excrementitious matter of plants to be carried out of the reach of their roots.

9. It prevents grasses from running out.

10. It enables us to deepen the surface soil

By removing excesses of water—
11. It renders the soil earlier in the spring.

12. It prevents the throwing out of grain in winter 13. It allows us to work sooner after rains.
14. It keeps off the effects of cold weather longer

15. It prevents the formation of acetic and other

organic acids which induce the growth of sorrel and

Splitting Rails.

Alwost every farmer can split rails, but there is considerable science in the work after all. One man will rive them out with apparent ease, while another witting away and exhaust his strength in a few hours. The reason of this difference is owing to the weight another will apply it only at an essential point, and that is when the beetle is descending and near the

the wedge in dirt.

It is hard enough to split rails at the best, and we believe it a sin for any man to attempt the work without proper prerequisites, for he has no right to exhaust physical powers and ruin his constitution by using poor tools, when the best can be obtained at a trilling expense. Great advantage is gained, when making rails, by opening large logs with a charge of powder .- Ohio Farmer.

Destruction of Stumps.

We have always objected to the use of machinery of any sort to take up large stumps in ordinary arable land, that they would take up inevitably a large quantity of earth with each, and leave a hole almost as objectionable as the stump; and moreover, that after the stumps were out there was trouble in disposing of them. The following suggestions which we take from our neighbor, the Ballimore Weekly Leader, may be quite practicable, while they are not liable to the same objections. They are at least worthy of trial:-

"We have heard of two methods of getting rid of stumps, which, as they appear feasible and inexpen-sive, we hope some reader will try and report upon. Bore with a two inch auger to the heart of the slump; fill the cavity thus made with sulphuric acid, or with crude oil of petroleum. In the first case, the acid becomes the destructive agent within a few months; in the latter, when the stump becomes saturated with the oil, it is fired, and will then burn out to the last particle like a candle."—The American Furmer.

4401 BRIGHT BARLEY .- A correspondent from Wyoming Post Office, Plymton, asks how the farmers around Post Office, Plymton, asks how the farmers around Toronto save and harvest their barley to get so bright a colour. The grain buyers say our barley is plumper than that raised round Toronto, but deficient in colour." We do not know of any special method pursued by the farmers ir, this neighbourhood in gathering this crop. During the past season no particular care has been necessary; the dry weather, with all its disadvantages, has been favourable for harvesting. Perhaps the soil may make the difference referred to, if it really exists.

NORWAY OATS .- L'Union des Cantons de l'Est, published in Arthabaskaville, contained the following paragraph in its issue of the 8th ult., copied, apparently, from the Pioncer :-

"Mr. J. P. I.ce, of Stanstead, sowed, last spring, 82 lbs. of Norway outs on a piece of ground measuring 190 perches, from which he harvested 1620 lbs., or 60 bushels. The busk is small, and the straw very superior to that of ordinary oats. The ears are 12 to 20 inches long—some of them yielding 226 grains,—and there were from 29 to 50 cars from a single grain. Mr. Lee believes he would have harvested double the quantity he had if the season had been favorable. A Mr. Price, or Vermont, is said to have harvested 100 bushels of this oats to the acre.'

Go to FARMING .- A good living is what comparatively few men succeed in making in village or city life, and yet nothing is more easy of accomplish ment on the farm. Besides, there is a pleasure in ment on the term. Besides, there is a pleasure in cultivating and embellishing the earth, improving and increasing its products, and thus adding to the aggregate of human happiness. Why, then, should young men hesitate to be farmers? It is both profitable and he orable. It is the nearest approximation to independence that man as a member of society can independence that man as a member of society can make. A gentleman farmer—and all farmers are, or should be gentlemen—belongs to an order of nobility that is not indebted to placeholde—for installation, and may, if he chooses, be runked among the greatest benefactors of the human race. Let all the idle young men go to work on farms, and quit seeking third and fourth rate clerkships. In short, go to farming and out the gring—Fr quit begging .- Ex-