lamb? Ewes put to the ram about the worth talking about: We have seen on middle of August should lamb in Exmoor, Devenshire, many an acro Jannuary, and if the lambs are well laid out for \$4 each, including large treated, with cake and white pease as and small water-carriers, culverts well as their natural food, they should under fences, hatches, and flood gates. be a little better by the end of March A great part of the work may be done than those wretched little black rats with the plough, in the hands of a we see every season in Ste-Catherine skilful ploughman, and the annual street butchers' shops.

We hear from our energetic friend, M. le Comte des Etanges, that he is working 70 acres of sugar-beets at Sorel! A large undertaking. If our health permits, we hope to see the crop this month: but, alas we have had but a poor life of it this summer

HILL-SIDE WATER-MEADOWS.

BY THE EDITOR.

Any one who has driven along the upper-road from Richmond to Coaticoke must remember the inumerable rills which, gushing from the rock on the south side of the hills, run trickling down the slopes, wandering here and there through the meadows, and freshening up the grass for a few feet on cach side as they pass; supplying this farmhouse and that cattleyard with the finest and most pollucid water; and gradually augmenting in volume, by and by form brooks of moderate width, which feed trout, the beauty, activity, and quality of which I, with my fifty years experience of that fish, have never seen surpassed.

Ten years ago, happening to pass the summer in the neighbourhood of Compton, we tried an experiment, on a very small scale, to see if the water of one of these bright, clear streams would act on grass in the same manner as streams of the same character act on grass in England. Beginning on the second of May, we led the water over about a quarter of an acre of old, rugged grass; let it run for four days; then dried it for three days, working thus until the end of the month, which, fortunately for our experiment, remained cold and backward throughout its duration. We showed the piece to an old inhabitant of the district on the 25th of June, without having told him what fantastical tricks we had been playing with it, and his opinion was, that there was three times as much grass on the plot as on any other part of the meadow. We think he overrated the crop, but the difference was very striking, and could be seen from afar. And this, remember, was an experiment under great disadvantages, autumn being, as was stated in the last number of the Journal, the best season

for watering.
Now, this little stream, a mere rill, runs past three farms, and, trifling as its volume is, it would irrigate, if properly managed, at least seven acres on each of them. Any one can see it: it crosses the road abvove the ravine between Compton Centre and Mr. Cochrane's farm at Hillhurst. A lovely

but not awkward-fat. Why not make there are hundreds of similar ones in preparation for a good lot of early the townships—would the cost be

frightens even the most enthusiatic improver. But where, as in the Compton case, the brook travels close to the side of the farm-building, there is no trouble at all in carrying out the contents of the tank. The urine from the cattle, the contents of the privies, the seworage, in fact, of the whole establishment, might be collected by the stream, and carried over the meadows at any time thought desirable. As the water ringes &c., would be a mere nothing.

The main carringes, which take the through it—nothing is lost, but all is water in the first instance from the brook, are formed three feet wide and thus, early and abundant crops are six inches deep on the lower side, and produced for pasturage, or for soiling

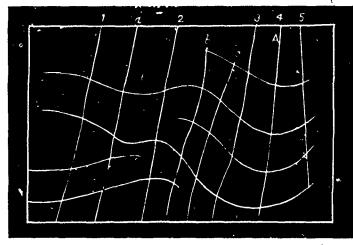


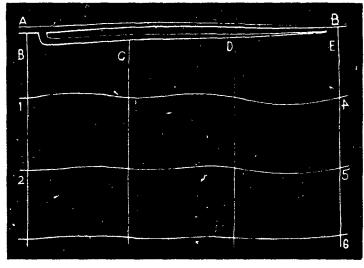
Fig. 1.

over the piece then under treatment:

forty-four yards apart, with a fall of in the cattleyard or stables, the manure two inches in a chain of twenty-two made from the consumption of which yards, or one in 396. Between these a may be carried on to the arable land, smaller sutter is cut, eighteen inches and so increase, in a very short time, deep, at a distance of three-fifths from the upper carriage, and two-fifths from the lower one. The gutters again passing over the grass, the water, collect the water into a sheet, that it may be the more evenly distributed becomes perfectly clear, and fit for all over the place they under treatment. domestic purposes. And these meadows but for this, the water would get into little streams, and cut its way in small furrows.

If, from too-long persistance in mowing, the grass has given place to moss, the best plan is to let the water flow over it for a week at a stretch.

This will soon kill out the moss, while little streams, and cut its way in small mentioned last month, summer flood-



F10. 2.

spot—nothing more beautiful in our a thin sheet of water has but little ing had better be avoided altogether, own dear old country: an immense effect. Continue the watering at inter if sheep are to be pastured: fear of rot admission for us to make ! The trout, vals; always letting the land get dry

There is no reason why—where, as at many in number, are brillant in colour; between whiles, but never allowing the Compton, land, exposure, and water, the grass on each side of the stream is land to get sodden by the water remain- are all propitious—strawberries should of good quality, and the land, being ing on it too long a time; by neglect not be cultivated for the market.

acres, to have 7 acres of meadow, before remarked in this Journal, we as my readers know, always fatches an yielding a maximum crop, or crops, of have seen many liquid manure tanks extra price. It would pay well to lay hay, with good pasturage afterwards, built, and many carts for its distri- out the beds for the strawberries as de-

rocky and uncomfortable to plough, of this sort, coarse aquatic grasses are Irrigation—in summor, of course, in would be all the more useful if it could sure to take the place of those of this case—would double the size of the be kept in permanent meadow. It is no superior quality.

Liquid manure tanks.—As we have double the value of the crop: fine fruit, and, at the same time, absolutely inder button bought, but never saw their scribed in the December, 1833 number of D. E. You see by fig. 3 that the distance pendent of manure. Neither, in such a use persisted in; the tremendous labour the Journal, p. 124 eng. bedwork. A very from C to E is too great, therefore, a situation as I have described—and connected with the system soon thin sheet of water, running for about subsidiary gutter, F G must be inserted

12 hours at a time, will be sufficient. In the early stages of growth, the land should be stirred frequently with the hoe round the plants. The last watering should be given just before the berries begin to colour; after which the beds should be kept as dry as possible: strawberries ripened in rainy weather have no flavour. The wild strawberries on the slopes below the upper road at Compton are, without any exaggeration, enormous; many of them as large as our thumbnail! Superb in colour, and full of flavour, if the season is suitable. We fancy there are many hundred acres in the Townships which offer equal inducements to the fruit grower, but we know what we am talking about as to Compton. We studied the country thoroughly in 1873, and we are sure that an enterprising man, who would be willing to invest a few thousand dollars in intensive farming on any of the sunny, well-watered banks along the hill-side, might double his capital in a very few years. The soil is willing to grow any thing you like to ask it. We never saw such swedes in England-the station is handy, and the neighbourhood pleasant beyond description.

And, now, having described as well as wo could the advantages and the general plan of the simplest and cheapest form of water meadows, we proceed to show how such a meadow, in land of the most irregular shape, may be laid out. The level used for the purpose is the ordinary one, an engraving of which was given in our Dec. 1883 number. Many of our readers are, doubtless, accustomed to itsuse, inditching, &c, but others may be glad of information on the subject. It is to be observed that on the crosspieces above the weight there is a notch in which, when the line lies straight, the plumb-level is attained. Taking the fig. 3 to be a meadow, or a piece of a meadow, we must first

consider where the irrigating stream can most easily be introduced, consideration being given to cheapness combined with practical utility. Let us suppose that the point A is the most convenient spot. Next, consider most convenient spot. Next, consider in what direction the water, if left to itself, would probably run: take the line, for instance, from 1 to 2. Take the level, and proceed to mark out that line in the following way: set the feet 1 and 2 level on the ground by means of the plumb line 3; mark the place of no. 1; then advance the level, putting no. 1 in the place of no. 2, and finding a new place for no. 2 by means of the plumb-line. Go on in the same way until you have got a level line across the meadow. Some one, following, should make a mark with a hoe or other tool at every other move of the level—there will thus be a sign at every ten feet. Now, begin this levelling at B, and, if the ground is tolerably flat, you will get a line somewhat in the same direction as B. C. The arrows indicate the way in which the water is to be made to run on in the gutter-line. To manage this, you must deviate a little from the precise level, letting the plumb-line drop a little before the level mark when you are inclining down the meadow, and behind it when the inclination is up the meadow. The inclination is up the meadow. The water will, then, run out of the low places, and upon the high places. Follow all the indications, of the level, however curved or crooked they may

When you have finished the line B C., return to a point D, which should be, generaly speaking about thirty feet from B. Going on as before, you will probably make a line something like D. E. You see by fig. 3 that the distance