th degree contagious, whether I would have answer the purpose. t one in a place.

All were removed from the infected stables proaches its termination, so that it runs out to a put into quarantine. Isolated cases connected to occur for some weeks after this, but Immediately below the carrier should be cut nk we traced directly to previous contact.

ich I have spoken. e was put into a sales stable in New York the end of a carrier itself performs this office, ile waiting for the boat, though there were and is tapered accordingly. cattle then present, yet I have supposed it unlikely that diseased animals had been

re, and had left the seeds of disease.

But account for this case as we may (and I e no doubt it is sometimes spontaneous.) I l convinced it is very highly contagious, and the only safety to a herd into which it has n introduced, is in complete isolation, and in I feel, as convinced, there is safety.

Iv cattle were not suffered to return even to barnyard, or to any part of the cattle barns, ept as invalids were sent to the "hospital' ie, until late the next fall-i. e. the fall of In the meantime the hay and straw had seen removed, the stables, stalls, cribs, and thoroughly scrubbed with ashes and water, izated and whitewashed with quick lime. e had no case since, and am persuaded I dd have avoided most of those I had before, had reasonably admitted the evidences of senses in the second and third cases.

E. P. PRENTICE.

und Hope, June 14, 1860.

Irrigation of Water Meadows.

ie following article, in description of what own as "Bickford's System of Irrigation," pied from the "Bath and West of England cultural Journal." It will be read with est by those in this country who have lands ble of being treated in this way:-

commencing the construction of a water ow a carriage gutter is cut along the line highest ground. This main gutter is for upose of taking the water from the brook, , her source from which it may be derived, i ler to feed the smaller or irrigating gutters act it acts the part of a main artery. This gutter need not be laid out by the level. id inclination should be given to it, acig to the nature of the ground, and the ity of water which can be made available. vitcan be had, a fall of 2 inches in a chain

The width of the main so or not, and that my future security was in carriage gutter should be about 18 inches, and mention and not in remedy. I therefore separather the death from 6 inches to 1 foot. The dimen-ed all the remaining animals, in no instance sions must, however, in some measure be reguring more than two together, and generally lated by the quantity of water to be conveyed along it; the gutter diminishes in size as it ap-

spread of the disease was stayed, nor did a a set of small, tapering gutters. The office of ric case occur after this, which we did not these tapering gusters is very important, as they secure the even apportionment of the water over t is impossible to account for the first case of different sections of the field, adjusting the sup-But as the cow in that ply in the way of a self acting valve. Sometimes

The Small Irrigators.—A series of smaller gutters are cut below the main carrier (at different levels.) in the same general direction, in order to eatch the water as it overflows from the carriage gutter through the small taper gutters. The distance between these gutters greatly depends on the shape of the ground; where it is undulating and uneven, more are required. These small gutters ought to be laid out quite I say quite level, subject, however, to a qualification to be named hereafter. The water as it flows over the land is collected in these small gutters, and as they are practically level, they again distribute the water evenly over the surface, when they become filled; were it not for these small gutters, the water would get into little streams and flow down along the hollows, instead of the ground being all equally covered, especially where the land has never been ploughed or levelled. I mentioned that the small gatters ought to be level-this, however, in practice, must not be carried out with mathematical correctness; in crossing any hollows, the gutter should be kept rather higher, say an inch on 33 feet run, or the water will gather in the hollow and overflow too fast at On passing along projecting these points. ground, on the other hand, the same difference should be made in the contrary direction, viz: an inch lower than the strict level, in order that that portion of the ground may receive its due share of the water.

Outlets, Driers, or Drawing-Off Gutters.— It is of quite as much importance to get the water off quickly as it is to get it on evenly. To effect this, gutters are cut in the direction of the inclination I the ground, i. c. in the exact same line along which the water would flow, if left to itself to run: if the gutters take any other direction, swerving too much to the right or the left, they will cut off the water from some of the land on one side or the other.

The Drying Gutters also act as Feeders.-The downward gutters also serve the purpose of feeders. Were it not for these transverse feeding gutters, the land nearest the carriage gutter would always have the first water, and thus receive the greatest benefit, and the lowest portion venient, but if need be a less rapid fall will of the field would come the worst off. In order