short-horn shall be purchased for the Imperal farms whose pedigree cannot be traced on both sides to the second volume of the English Herd Book.

All this precision proving the intense interest which is taken by our neighbours in the race, must, if correctly interpreted, be to the English breeder the source of the greatest satisfaction. Those who have returned from Poissy to tell their neighbours that the French are now so much masters of their business as to need no further tuition from us may be correct; but those who add to this assertion that the perfecttion of the pure breed of short-horns established across the Channel renders unnecessary any further importation of foreign blood, and henceforth closes our trade in that quarter, must have used their eyes to little purpose, or reasoned negligently upon the facts placed before them.

We know very well in England that no breed of sheep or cattle reaches the same development in the situations to which it is foreign as it does in those natural to it. We know that great mistakes are made in removing stock from one county to another where the circumstances of life differ, or from one side of the island to the other, where the conditions of climate are vari No short-horn breeder is unacquain.ted ous. with the fact that certain parts of Yorkshire are better adapted to the short horn than others, and that he is seen in richer bloom in his home pasture than he is anywhere else. It is for this reason that most prudent men when they want new blood like to go north for it. Now, theoretically, if these observations have any force as regards England, they must have much more when applied to France; and, in fact, we find The English exhibited nothing very they have. wonderful at Poissy, but yet the contrast was unfavourable to the French pure Durham. The latter wanted that developement which characterised our own. There was nothing, for instance, at three years of age which could compare with Mr. Clisp's ox, or, unsatisfactory as he might be as the only representative in the steer class, with Mr. Holland's steer. We entertain the belief that many years must pass before the short-horn becomes so naturalised in France, should this over occur, as to render the breeders there independent of a recourse to our herds. Were these gentlemen less particular than they are, ordinary developement might suit them: but being so particular, nothing short of absolute perfection will please them, and to obtain this point they must continually return to us for new blood to counteract some certain effects of climate and soil disadvantageous to the growth of the imported breed.

Although the French were unmistakably proud of having accomplished so vast a stilde in so short a time, and having arrived at such proficiency in the use of the wcapons we placed in their hands, we met no breeder skilful in his art who was not ready to acknowledge, if judic-

iously questioned, that a pretty frequent as cession of English blood was requisite to preserve the French Danham from degenerating.

While, however, this enthusiastic attention is his art tends to make the French breeder a costant and harge purchaser at our pedigreessle, it must be remembered that he comes as a ds certaing purchaser, and that if his custom is be retained special attention must be here give to preserve the high character of the attraction which draws him.— Agricultural Gazette.

## Surface Manuring.

The practice of top dressing. or of surface manuring, has long been the favorite methe employed by all intelligent gardeners within the circle of my acquaintance. We have long as learned that masses of rich, nitrogenous me uses are not what plants require about the roots, but that manures are applied much me successfully (and less injuriously) by top dressing either in solid or liquid form. Nature ner manures her plants with crude masses of er centrated fertilizing substances, but imparts ! stimulating and mineral food in a state of the most minute division-almost infinitesims! chiefly from the surface of the earth. Now der so many fruit trees have been killed : many grape vines destroyed or rendered bar by excess of wood, in consequence of the her manuring at the 100ts so universally recomme ed by writers on gardening and horticulture.

The great objection to surface-maturing founded upon the probable loss of amoun caused by the exposure of decaying manupon the surface of the earth. But this has been shown, by sound reasoning and facts deduced from pratical experience, to much less than is commonly appreheds while the benefits arising from surface maturia in other respects, more than counterbals any possible loss of ammonia from this prati-

In the first place, when manures are exputed on the surface of the earth, even in tweather, decomposition no longer goes on rapidly as when the same manures are kept a heap, and the ammon a that is produced gradually carried into the soil by rains. I other soluble substances, as potash, line, phosphates, &c., are of course not lost, beather ware not volatile.

Nor are these soluble and valuable subim lost to plants by being carried into the sol fore they are needed by growing plants. It been conclusively shown by eminent scienauthorities that any good soil, containing a, proportion of clay and carbon, is capable taking up and retaining effectually same lime, potash, soda, &c., in a soluble form, that little, if any, passes off in the underdaage water of such soils. These substances, true, may wash from the surface, but they.