

bogs near us that in two years have not made as great growth as our vines have in one, simply and solely because they have not been properly drained. The main ditches are placed about 100 feet apart, four feet wide at the top, two feet at the bottom, and three feet deep. Smaller cross-ditches are cut the same distance from each other, deep enough to keep the water a foot or more below the surface of the mud, in the early part of the season.

After ditching came turfing. The turf, which is about a foot thick, was removed on barrows. The mud was then carefully levelled, stumps and roots removed, and all hollow places filled. The value of this is seen in a dry season, when it becomes necessary that the ditches be filled to supply moisture to the roots of the vines, thus assisting the fruit to continue its growth without ripening prematurely.

Sanding comes next. The quality of the sand must be considered. Coarse, clean sand is the best. The coarser the better. We have been able to test the value of coarse sand in comparison with fine. On the south side the sand is fine, on the north side it is coarse. We used the latter except for a few square rods, where we used the fine. The following is the result of our observation :

(a) The coarse sand dries readily on the top in the morning, and becomes hot early in the day.

(b) It allows the free evaporation, which on very warm days prevents the vines from scalding.

(c) It drains more easily after rain.

(d) Hard frosts do not heave it nor disturb the surface in the autumn.

(e) Noxious weeds do not so readily find a congenial home as in fine sand.

It pays well to be careful that no surface soil be mixed with it, for wherever a bit of loam, or vegetable mold from the hill found its way to the bog, there weeds were propagated. We put on four and five inches of sand with trollies, carefully levelling it so that three or four inches of water on any part will cover the whole. We believe we will be more than repaid for extra care in levelling and sanding from the first crop.

The planting is next in order. We have examined nearly all the bogs planted in our Valley, and all we have seen are planted in rows from 15 to 24 inches apart, and the plants are laid along in the row