quence of the horizontal direction of the stems, a greater chance of falling on the bare soil and perishing, than of descending to and about the tubers. This method, when modified by planting the tubers in raised beds as hereafter described, gives most satisfactory results, the tubers being fine, full flavored, and diseased in the ratio of from one in fifteen to one in fifty.

The Russian Professor's principle resolves itself into the conviction of the existence of the disease-generating agent on, in, or about the seed-tubers, and the remedy thereby suggested seemed plausible enough; it was to effect its destruction by artificial heat; viz., by drying the seed tubers in ovens until they were shrunken and wrinkled to almost apparent destruction. Potatoes so treated grew in the ratio of 66 per cent.; their stems were, as a rule, weak, and became infected as soon as any other; whilst the tubers, moderately sound at the getting-up, apidly rotted at the proportion of 60 per cent.

Mr. Short offered to the public a remedy which, at first sight, seemed to be the most feasible, and of the greatest avail, of any here-tofore proposed; it was given as original, and, as far as he was concerned, probably was so; but it had been previously carried out in principle by ourselves, and stigmatized as scarcely worthy of comment. It consists in planting the tubers in ridges; the former six inches apart, the latter thirty; and as soon as the disease is unequivocally established in the haulm or tuber, in turning down the stems, and covering them with six inches thickness of soil. Now such a plan is, in limine, laborious, expensive, almost impracticable in some gardens, from scarcity of soil, and, practically, of scarcely any worth, even when all the skill and patience of the most liberal experimenters are thereon bestowed; for if you cover the haulm on the first appearance of the disease in the leaves, you do it at a time when the young tubers are no larger than marbles, or to be more precise, from ½ to ¾ of an inch in diameter, and though they are absolutely sound, they are of no culinary usefulness; again, if you wait till the disease has advanced further down the stem, till the tubers are tolerably fine, and only just tinted, here and there, with the disease, you find the great heat and moisture evolved by the decaying stems and the fungus thereto adherent, so to favour the spread of the disease, that in one week the number of diseased would reach 1 in 10, and go on rapidly increasing till your potatoes would be diseased in the proportion of 1 to 6. Moreover when the haulm is covered with earth, all true ripening processes at once cease, and Mr. Short was premature in his remarks on the quality of the tubers grown by his method, as they always are, and must necessarily be, smaller, closer, and less flavourous when cooked, than the typically perfect tuber, but comparatively good when the generally inferior quality of the potato crop is considered.

Own Methods.—No. 1. When the haulm is diseased about half way down, cut it off close to the ground, rake the soil over the lower portions of the stems, and leave them in the ground one month; this plan is simple, inexpensive, and gives in most seasons a very fair result, e.g., in the best of our yields only three, in another only ten per cent. were diseased; the potatoes, in all cases, were of good size, fairly mealy when cooked, and kept remarkably well.

No. 2. Plant the seed tubers in ridges, and when the disease appears in the haulm turn it right and left, as in the Hornsey method, and place a little earth over the roots; then proceed as in the previous (own method No. 1) and you will still have better results.

No. 3. Decidedly the best method hitherto made public, but one unfortunately almost to tedious and expensive to be carried out excent for experiment, or in those gardens in which to expense is of so much consequence as an about dant crop of fine sound potatoes, is the follow ing:-Manure your land in autumn, ridge it afresh on some mild day in the winter, and a the planting season raise therewith a series of beds or ridges 30 inches distant from each other. as high as half of the intermediate soil on each side will admit of, and pointing northeast ad south-west; in these let a trench be made eat inches deep, therein the seed tubers placed in inches apart, and the whole covered with soils fine and light as procurable. (We find the bat time for planting potatoes, to be treated on this plan, to be from the middle of March to the M or 12th of April); after the haulm is well to rake the soil up each side of the ridge is the stems, once or twice a month, and whenthe disease appears, carefully watch its progress and when the disease appears, carefully watch its progress, and as soon as the main stems affected, strip off all the leaves and the diseast part of the main stem, carrying them careft away, and deeply bury them, leaving the defit ated stems to desiccate, or to throw out field leaves for one month. On a fine dry day of up the tubers, remove all superfluous dirt that from, and when perfectly dry, stow them and for spring use, resting assured that all you is rotten in the spring were tainted and overlook at the harvest; this method gave in one instant only one, and in another only two and a halfe cent. diseased, in both of which cases the tale were fine, of excellent quality, and kepter fectly sound.

From the.l other similar investigation, we may make the tollowing general observations:—

No. 1. The fungus, as a rule, first attacks stems (but not necessarily so), and then seemed to the tubers.

No. 2. The extirpation of the disease the our island is an impossibility, except by an eversal concurrence and through a series of preventive measures.