cluding some sold for sets, a little exceeded a ton. These I shipped to a Commission Agent in New York, and received for them \$110 per This year I have a much heavier crop. For an experiment I have weighed those cut from 12 stools, which amount to 18 lbs. found in peeling and drying they waste nearly The produce of an acre stands thus: one half. 14,520 stools per acre alb. each, 21,780 lbs. Ready for market, 51 tons, \$110 per ton, \$605, cost of cutting per acre, \$6; cost of peeling per ton, \$7, \$38, binding and taking to market, \$51 per ton, \$27, total, \$72. Deducting expenses, this leaves a profit per acre of \$533."

"According to directions at the time I planted, I have not cultivated mine since the first year, but think they should be cultivated once every spring, to loosen the soil and keep them free from weeds and grass. I am confident that any one who has suitable ground and will bestow proper cultivation can realize this amount from an acre of willows, perhaps more. After reading these facts I think no one can hesitate to an-

swer the query, will it pay?"

The foregoing computation shews a liberal profit on the experiment. Is it not worthy the consideratson of the Board of Agriculture to offer a scale of prizes for the encouragement of the cultivation of the Osier Willow? The season for planting being very convenient, about the same time of planting Indian corn, there is scarcely a farm in Upper Canada without a low swampy plot, which, with open drains, may easily be made fit for its successful cultivation.

The premium should not be less than for one acre, the cultivation to be certified by the President of the County Agricultural Society, wherein the plantation is situated.

> Your obedient servant, J. B. MARKS.

Bath, England, Feb. 1862.

## Experiments on Manures.

A ahort time ago some experiments were published in the Gardeners' Chronicle in reference to the beneficial action of coprolites (ground to an impalpable powder) on swedes, in comparison with other manures. The results have, contrary to the opinions of myself and others, induced me to try similar experiments on swedes, the result of which I now lay before your readers. Iquite agree with Dr. Voelcker in saying that very little good can be obtained from the result of a single experiment, but often a great deal of harm; and with this view of the case, I intend pursuing the same experiments for several years to come, as I think it is the duty of every one who holds a similar position to myself to do all in their power to connect science with agriculture, and I shall be very glad to join any person in making agricultural experiments who is situated in a different part of England, so as to be able to arrive at more satisfactory conclusions.

The ground experimented on was lately a rep old and badly drained piece of pasture to which after being well drained, salt was applied at the rate of 25 bushels per acre. The field was the ploughed and harrowed in the usual manner, at divided into two parts of 41 acres each. Onthe one half oats were sown, and on the other mangel and swedes drilled in with superphosphate of line leaving the width of one drill across the field in Out of this one drill was divided in manured. plots side by side, measuring 4 by 3 yards, ead containing eight drills. The plots were manual and sown on the 13th May, 1861, as follows:-

Cwt. per per | Solution ton

The soil was in a fine state of division, &

weather dry, and the manures in a finely por dered state, and well mixed with ground als before being drilled in with the seed. Onthe 18th inst. the seed had all appeared above grow and very regular. On June 3rd the plants is each plot were looking well, but those in Ma were decidedly the most forward, and those No. 3 the most backward. Plots 5 and 6 p peared equal throughout the season, and & were treated in the ordinary manner. The amount of phosphate of lime per cent. in the manures used were as follows:-

In No. 1. Bone dust. 55.35 per cent. phosphate of line.
2. Coprolites, from 60 to 61 per cent. do.

" 4. Bone ash, 67 per cent. do.
5. Superphosphate, 18.59 reluble
and 2.40 insoluble
8. Dissolved coprolites, 21.75 soluble,
and 10.35 insoluble, 21.03 total 32,10 665

On looking at the above we find that

cwt. lbs. 2½ of bone dust per acre is equal to 165 of phosphated 5 of ground coprolites 336 " of ground coprolites of bone ash 300 70% (mostly solub) of sup rphosphate of dissolved coprolites

Thus showing the preponderance of insolution phosphates in Nos. 1, 2, and 3, or the natural manures. All the plants are a great deal is green, and were attacked by mildew just belbeing pulled and cleaned on the 12th of Orion. The number and weight of the roots in & plot, with the weight per acre, was as follow

Plots.	Manure used.	per	Weight of roots in plot.	of roots	Avera-
1	Bone dust	•	lbs. 114	60	Tone 6
4	der. Unmanured. Bone ash. Superphosphate. Dissolved coprolites.	5 4 3	112 102 123 124 132	54 51 52 58 56	28 13 51 51 51 51 51 51 51 51 51 51 51 51 51
,	Average	•••	118	55	

From the above statement it will be plant