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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Alter Lowers 16 August-1846 I beg leave to State That I hope to be able to send you the remainder of the article on Some Preserves of Fences by Thursday's post at The latest It would have been sent before this time (estically as you wanted it soon) had it not been for my State Thealth which has compelled me take to idle habits and lie down to rest in working hours. Ifeel much better now and have got lunt Institute for Botanical Documentation

THE JERUSALEM ARTICHOKE A SUBSTITUTE FOR THE POTATO.

EARLY in the season I furnished an article on the value of Helianthus tuberosus as an article of food to supply the place of the Potato, and it is with satisfaction that I now bring under notice the character of the substitute, which I am happy to state is found to be superior to the principal.

I forward a few roots, just as they were dug, with the tubers still attached to the stem, so that it may be seen what cultivation can accomplish with this much neglected plant; and, as an instance, of a plant actually grown in Britain by labouring men on poor soil far surpassing the Potato, for the following reasons:—The haulm of the Potato has always appeared to me to be an immense drawback from its importance as a profitable crop; not so with the Helianthus, for if it produced no tuber at ail, it would still be the most valuable duced no tuber at all, it would still be the most valuable fodder-plant grown in this country, far surpassing, in weight of green food, Bokhara Clover or the like. Now, this is no hasty saying; for I have carefully weighed one square yard of the stems of the Helianthus and found them to be 32 bs, weight, and this square yard was a fair average of the crop, and taken out of the middle of a piece not richly manured or highly cultivated, but that had come up from the small sets left in the land after the last year's crop had been gathered io. This circumstance is of con iderable gathered in. value, as showing to the agriculturist the important fact, that this plant wants no scientific tillage to produce a crop, and requires no small pains to prevent it from growing, and that most luxuriantly, in any reasonable locality.

Now, only consider the following simple fact, and compare the amount with other fodder:—30½ yards, or one pole, yield 968 lbs. of green food; that is, nearly half a ton from one pole of land, and gives in clear weights 69 tons to the acre, or about three times the weight of a good crop of Swede Turnips; and this, be weight of a good crop of Swede Turnips; and this, be it remembered, is altogether free of the tubers or main crop, and is merely the haulm, which, in the Potato, would be offal. I have given the leaves of the Helianthus to the goat, the pig, and the ass, and these three agree that it is good, and eat it with avidity. When the cottager kept a pig, and grew Potatoes, he was obliged to give the pig the tubers, which tubers were the only eatable part for man or pig; but in the Helianthus there is a line drawn of distinction, at the surface of the ground; the units part is food for the brute. face of the ground; the upper part is food for the brute, while the under-ground stem contains flour (inuline)

for man

As regards the various modes by which the stems of this plant may be prepared and preserved for the food of animals, that is not in my department, although I could point out chaff-cutters or Turnip-cutters that would slice them into sections as thin as wafers, and steaming apparatus that would reduce them to a jelly. I prefer leaving that, however, to the proper parties, as I have neither the means nor the leisure to carry the subject beyond my own line, namely the line of cultiva-tion. I have picked out the sample sent from those that were most compact, and would beg to state that the rich, deeply-trenched land, caused the Helianthus to run to strong stems, thick and branching, and the tubers from such stems were placed deep and wide in the earth, and by no means equalled in weight of crop of tubers the less luxurant plants. The plants on the very poorest soil grew just the reverse, and the tubers were nearly globular in form and grew close to the stem, whereas the rank stems produced elongated tubers on very long stolons. The sample is from neither of these, but from the medium quality of land, or what would be called good light Potato land, one spit deep on the new red sand-stone. The plants were grown on demidykes or raised beds, as recommended and shown by an engraving in "Forsyth's Brochure," and stood in proportion to the land thus:—Two rows to every 6 feet, and the plants stood about 10 inches apart in the row, and supposing the whole field to be equal to the medium soil which produced the sample, there would be about 15 tons to the acre of good usable food for men; and when we compare the analysis given by chemists of the Helianthus and the Potato, we shall find a heavy balance in favour of Helianthus, as being more nutritious in proportion to its bulk than Potatoes. And lest the taste or the cookery should prove a stumb-ling-block to the introduction of this auxiliary to the Potato in the eye of the household matron, I must remark in passing that Helianthus is second to none in making an "Irish stew," and this auxiliary to the Potato (for I have not so far given up the Potato as to speak of its successor as its substitute) will not only yield the tuber to make the Irish stew as the Potato does, but it will yield fodder to fatten the mutton or other flesh meat to form the chief ingredient, namely, the flesh, which I regret to state has been too thinly strewn in Irish soups for many years, and this is a feat that the fodder of the Potato never could achieve. Alex. Forsyth, Alton Towers, Oct. 26.