

estimated, there is probably 8,000 to 10,000 tons of waste, an amount of material now being buried annually, or otherwise destroyed. With this in view, I got into communication with the Deputy Minister of Game and Fisheries for Ontario, who kindly offered me every facility.

Before commencing my work, I had to ascertain whether the facilities on Georgian bay or lake Erie would best be suited to my work. It was decided to open a small research station at Port Dover on lake Erie, in view of the fact that I had not only natural gas at my disposal, but also—the all important factor—a certainty of supply of such raw material as I required.

After selecting a site, I proceeded to ascertain what apparatus was available. In this I found great difficulty, for, on all sides, I was told nothing could be made or even adapted to my purpose for several weeks, and possibly months. I had, therefore, to content myself with four ordinary feed cookers which, of course, could only be operated at a maximum temperature of 212° F., so far as digesting was concerned.

For drying purposes I had to content myself with direct gas-fire heat without circulation, and for moulding, I had to use an Enterprise chopper. All other apparatus was on similar makeshift lines.

However, I had to make the best of the apparatus available and I am glad to say that I found it fairly capable of showing me approximately what was obtainable from the waste in a qualitative way.

On arrival at Port Dover, I had some difficulty in leasing suitable premises, but eventually secured part of an old tannery very much out of repair. In this, I erected what plant and machinery I could collect in the time and I subsequently engaged a man and boy to assist me in the work.

I then entered into an arrangement with the fishermen to supply me free of cost with such waste as I required, and, as a result, I took in for treatment and research about half a ton of raw material every other day.

CHARACTER OF FEEDS MANUFACTURED

The waste I found very different from the material which I had had previous experience with in other countries, particularly on the North sea, and necessitated much more careful treatment than my makeshift apparatus permitted. However, with certain data in my possession, I proceeded to compound various live-stock feeds along the lines I had previously operated, some eighteen years ago, in Germany. These feeds were used experimentally at the Central Experimental Farm at Ottawa.* I fear I was unable, with the plant at my disposal, to extract

* See p. 14 for feeding experiments conducted at the Central Experimental Farm.