be from $2.00 to $2.80 per ton or from 10 cts. to 14 cts. per 100 lbs: this when used in compost. It has not yet been determined if, applied directly to the crops, it would not possess a far greater value.

Desicated casein of skim-milk.— There are manufactories of desicated casein. This casein when prepared is a hard elastic substance, having the appearance of horn. For its preparation the skim-milk is run into large vats where it is heated up to a temperature of 150° F. A certain quantity of acid specially prepared for the purpose is then added, when the whole is stirred for some moments; the casein curdles and is at once precipitated. The whey is drawn off and the cake of curd is broken so as to allow it to drain. It has then a fibrous appearance and is rather sticky. Carried to a table to complete its draining, it is washed so as to deprive it of all its acid.

After this it is press dried and passed on to a mill where it is cut fine and spread in thin layers upon seives covered with cloth, which are placed in a dry house heated by steam and fanned by a vertical draught of air, where it is completely dried at a temperature of 120°. To effect this generally takes 24 hours; it should be stirred every now and then; commercial desic. ated casein is then obtained, it looks somewhat like gum-arabic. Care must be taken to prevent discoloration during the manufacture. For transport it is placed in 70 lbs bags. 3½ lbs of desicated casein may be made from 100 lbs of skim-milk. It is saleable to paper makers at from 4c to 7c per lb. It is employed chiefly to stick the paper and for other industrial purposes.

Casein of skim-milk used as a substitute for celluloid. — It is prepared in a similar manner to that indicated in the last paragraph, but with more care, to prevent discoloration, and it is submitted to a heavy pressure. It is then called lactite, is excessively hard and may be substituted to ivory, bones and celluloid in the manufacture of billiard balls, buttons, combs, brushes, &c., &c. It is then, almost pure white, but it can be colored by metallic salts. When colored black it greatly resembles vulcanized rubber.

Skim-milk employed in painting.— Skim-milk has been long used for painting purposes: it is mixed with hydraulic cement or lime water, so as to form a light paint with which the walls of houses are colored. The