

**THE STOCK-FEEDERS' MANUAL.
THE CHEMISTRY OF FOOD IN
RELATION TO THE BREEDING
AND FEEDING OF LIVE STOCK**

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The Stock-Feeders' Manual. The Chemistry of Food in Relation to the Breeding and Feeding of Live Stock by Charles A. Cameron

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PRIZE YEARLING SHORT-HORN BULL, "VICTOR EMMANUEL,"

THE PROPERTY OF LORD TALBOT DE MALAHIDE,

Was awarded the First Prize in his Section (there being sixteen competitors), at the Show of the Royal Agricultural Society, held at Belfast, in August, 1861. Calved June 24, 1860: sire, Prince Duke the Second (16731); dam, Turfolds, by Earl of Dublin (10,178);
gd., Rosina, by Gray Friar (9,172); ggd., Hinda, by Little John (4,232).

THE STOCK-FEEDER'S MANUAL

THE
CHEMISTRY OF FOOD

IN RELATION TO THE

BREEDING AND FEEDING

OF

LIVE STOCK.

BY

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LUDGATE HILL, E.C.

THE FOLLOWING PAGES ARE

Dedicated

TO

THE RIGHT HONORABLE

THE LORD TALBOT DE MALAHIDE, F.R.S.,

*President of the Royal Irish Academy,
&c. &c. &c.,*

ONE OF THE MOST ENLIGHTENED AND LIBERAL PROMOTERS
OF AGRICULTURAL IMPROVEMENTS,

THE AUTHOR IS UNDER MANY OBLIGATIONS TO HIS LORDSHIP, FOR
WHICH HE CAN MAKE NO RETURN SAVE THIS PUBLIC ACKNOWLEDGMENT OF HIS INDEBTEDNESS.



PREFACE.

SOME papers on the Chemistry of Food, read before the Royal Agricultural Society of Ireland and the Athy Farmers' Club, and a few articles on the Management of Live Stock, published in the *Weekly Agricultural Review*, constitute the basis of this Work. It describes the nature of the food used by the domesticated animals, explains the composition of the animal tissues, and treats generally upon the important subject of nutrition. The most recent analyses of all the kinds of food usually consumed by the animals of the farm are fully stated; and the nutritive values of those substances are in most instances given. Some information is afforded relative to the breeds and breeding of live stock; and a division of the Work is wholly devoted to the consideration of the economic production of "meat, milk, and butter."

Within the last twenty years the processes of chemical analysis have been so much improved, that the composition of organic bodies is now determined with great accuracy. The analyses of foods made from twenty to fifty years ago, possess now, but little value. In this Work the analyses of

vegetables quoted are chiefly those recently performed by the distinguished Scotch chemist, Dr. Thomas Anderson, and by Dr. Voelcker. The Author believes that in no other Work of moderate size are there so many analyses of food substances given, and ventures to hope that the success of this Work may fully justify the belief that a "handy" book containing such information, as that above mentioned, is much required by stock feeders.

102, Lower Baggot Street, Dublin,

APRIL, 1868.