

FEEDING ON BUTTER.

Ons by one the scientific authorities are helping to put a quietus on the misleading and injurious state that the proportion of butter in milk can be increased by feeding. It is strange that such a theory should have obtained currency among those to whom dairymen look for instruction. The writer, led by long experience to differ from the prevalent belief, has singly fought the error and it has obtained opposition to it alone for some years past. And now the professors are coming to the rescue, one by one, and already a powerful influence for the good of dairymen is exerted to encourage them to feed skillfully for increasing the butter in milk. The first, the Wisconsin Experiment Station, in a bulletin, declared that by suitably feeding the proportion of butter fat in milk may be increased; then Professor Phelps of the Connecticut Station, and now Professor Caldwell, of the New York Station, follow in the same line. Right or wrong, ten years ago I gave a detailed account of the effects of various foods in this direction, observed through a whole year's experimental feeding, which has been reprinted in the *American Dairymen's Manual*, and shows how various foods contained the oil to increase the proportionate quantity of the butter in milk, and how they also affect the quality. This last effect has been recently noted by the chemist of the agricultural department at Washington, and reported in a bulletin, and this is exceedingly noteworthy as showing the importance of choosing those foods whose fat will not deteriorate the quality of the butter.

This point may be worthy of some explanation. For some years past the physicians have known that fats in food or in medicinal preparations, when taken into the stomach, are not digested, but are mixed with the digested fluids in the form of an emulsion, precisely in a similar manner to the mixture of the fat globules in cream, and that the fat, when absorbed without change by the villi of the intestines, which are very fine tubes, set so closely together as to leave the appearance of the pile of velvet, and whose office is to absorb the nutriment and pass it into the thoracic duct, the large vessel which is found passing along the spinal column and close to it, and which conveys the nutriment directly into the blood, so that the minute globules of fat in the food thus pass directly into the blood, by which they are distributed to the various parts of the body, and of course to the minute glands of which the milk is formed. And when this glandular substance is broken down to form the milk, these same particles of fat are let loose and escape into the milk and form the butter.

Thus tracing the fat in the food in which it exists in the form of minute drops or globules in the cells which make up the tissue of plants or grains, we can follow it directly into the milk, without change; and thus are able to account for the effects on the milk of the various kinds of food given.

The knowledge is of fundamental importance to the buttermaker, and the whole subject is worthy of the most careful study. It relates, too, to the varying ability of the cows to extract the fats from the food, for cows vary very much in this respect, and some can healthily dispose of twice or three times as much fat as others, and some, as in the case of the Jersey cow Princess the Second, may be able to actually convert seven pounds of fats in the foods into butter in one day.

This is a physiological question, and ability is due to be inherited and conveyed by breeding, while it is excited and encouraged—educated, as it may be said, or led out, as the word signifies—by feeding and training. Thus, it may not be right to think or speak of such cows as phenomenal any more than we should call the extraordinary young horses Axtell or Sunol phenomenal. They are not so at all. They are instances of the result of human power skillfully exerted over the domestic animals, and everyone of us can produce a similar result by the judicious use of the same power. The fact of their creation should be an incentive to exertions in the same way by every intelligent dairymen in the improvement of his herd, and in his pursuit of success and profit in his business.—*American Agriculturist*.

An Organ's Back Down.

Some time ago, during the contest for republican nomination for governor, the Philadelphia *Press* surprised its readers by declaring that the charge of Lewy Emery that Senator Delamater bought his seat in the senate, was too serious a one to pass unnoticed and it called on the now candidate for governor to let the people know just how much truth Emery's statement contained. If our memory serves us correctly, the *Press* said at the time that until Delamater explained matters he would remain under a cloud, or words to that effect, and its comments created no little amount of talk in political circles.

Yesterday, however, speaking of the republican candidate for governor, the *Press* said: "Mr. Delamater made a bold, aggressive, winning canvass in which he has compelled the admiration even of his enemies. He will make a thoroughly fine governor and give the state an administration of which the people can contemplate with satisfaction and pleasure. He has the capacity of attaching to himself men of high character and strong personality, and their active backing throughout his canvass made him a strong candidate independent of other aid." We desire to remind our Philadelphia contemporary that Delamater hasn't yet answered Emery's charges. What does it mean by belaboring with praise a man according to its own statement is under a cloud?—*Patriot*.

Not an Imaginary Line.

It is not generally known that there positively exists a marked boundary line between Canada and the United States. Most people suppose the line to be "imaginary." But the fact is that the boundary is a distinctly marked line from Lake Michigan to the Pacific by means of pillars of iron, earth mounds and timber clearings. There are nearly four hundred of these marks between the Lake of the Woods and the foot of the Rocky Mountains. The British have placed one post every two miles and the United States have alternated between each of the British posts. The posts are made of cast-iron, and on their faces are the words: "Convention of London, October 20, 1818." Where the line crosses through lakes, small mountains of stones have been built, rising eight or ten feet above the level of high-water mark. In the forests, the line is defined by felling trees, making a clearing for a space of a rod wide.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

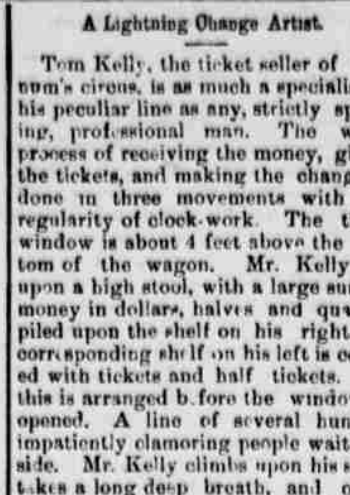
HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

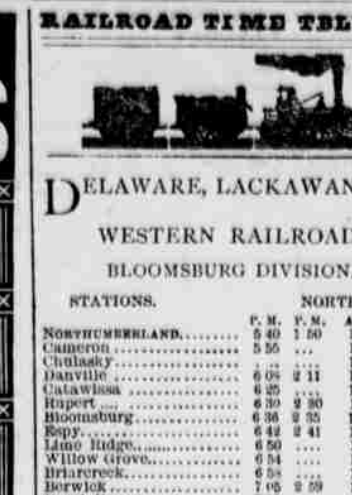
HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

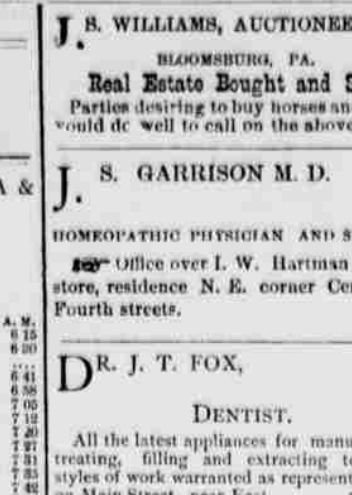
HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

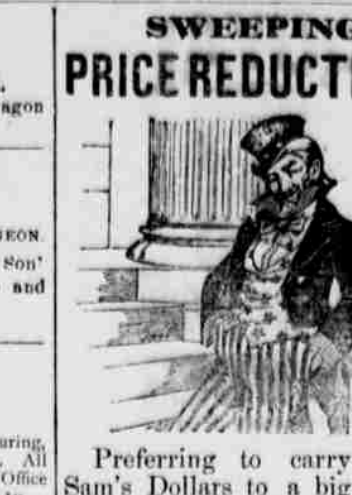
HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.



WOLF'S ACME Blacking
It makes them look like new, and it costs less than any other shoe polish. It is the best shoe polish ever made. It is the best shoe polish ever made. It is the best shoe polish ever made.

DR. SAGE'S CATARRH REMEDY
Cures Catarrh of the Bladder, Uterus, and Vagina. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

SCOTT'S CONSUMPTION EMULSION
Cures Consumption, Coughs, and Colds. It is the best remedy ever made. It is the best remedy ever made. It is the best remedy ever made.

CLOTHING! CLOTHING!
G. W. BERTSBERG, THE MERCHANT TAILOR.
Gent's Furnishing Goods, Hats & Caps.

5A CLIPPER FLY NETS
CHEAP AND STRONG.
J. R. SMITH & CO. LIMITED.

MILTON, Pa.,
DEALERS IN
PIANOS,
by the following well-known makers:
Chickering,
Knabe,
Weber,
Hallet & Davis.

Can also furnish any of the cheaper makes at manufacturers' prices. Do not buy a piano before getting our prices.
Catalogue and Price Lists
on application.

HAVE A CAB?
If you are a man of business, you will find it to your advantage to have a cab. It is the best mode of transport. It is the best mode of transport. It is the best mode of transport.

FRAZER AXLE GREASE
BEST IN THE WORLD.
Lippincott's Magazine, Vol. 1, No. 1.

FREE
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THRESHING MACHINES
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.

THE COLUMBIAN
Lippincott's Magazine, Vol. 1, No. 1.
Lippincott's Magazine, Vol. 1, No. 1.