OF horns,

D 1866

gret some-moes. Sale it. Jacobs.

ELBERG, DNTARIO

er, Intar clusively have repre-titish Hero L; Gloster stock for

's greatest sire, Mil-are young to winners, Emeline, ill be appre-P. O., Ont.

TED; lves of amber ncludprices. ONT.

O. P. R. hem leading id Toronto. irs, and note

Our present at stock bull, ing this fall

Herd

ATION.

on and P.O C. P. R.

breeding

ft, Imp. Eclipse. de, in call

ITE PIGS. 6 **horn Bulls ; Hares**, Also

PRIETOR

Farm

Bulls buyer.

I, Ont.

rthorns E! ck, either sex,
heifers from
l got by the
ie-bred) bull,
up., =50093=
g Yorkshires,
roone,
out. Science and Practice of Feeding.

From a timely bulletin on milk-production, bearing on its title page the name of Herbert A. Hopper, and issued by the Purdue University Experiment Station. we extract the following instructive para-

MISCELLANEOUS CONSIDERATIONS.

Various means of preparing foods have been resorted to in the past. Those that are cooked are no more digestible than the same uncooked. In fact, some parts rendered less digestible through heat-Animals may consume more of it,

which many times will account for the apparent good results. Wetting, except in special instances, when it is desired to tempt an ailing animal, is of doubtful value. If fermentation takes place, it may slightly increase digestibility, but should not be made a regular practice with the foods ordinarily used.

Drying, in general, does not exert any unfavorable influence upon digestibility if not excessive. However, most green foods are slightly more digestible than the same material as it is usually cured.

Certain foods known to have laxative qualities should find a place in nearly every ration. Those in which it is pronounced should be fed moderately, as an overstimulation of the digestive tract in this manner may prevent complete absorption of the nutrients, through an early expulsion of the same from the body. Again, as concerns the product, certain foods produce hard while others produce soft fats in the butter. Of the former may be mentioned cotton-seed meal and buckwheat middlings, while to the latter belong linseed-oil meal and the gluten meals.

No single food or combination of foods has yet been used, that will permanently increase the percentage of butter-fat in the milk of an individual cow. In the light of present knowledge, it is impossible to feed fat into the milk of a cow in normal condition. The quantity of milk can be influenced by feeding.

Salt is essential to health, but does not appreciably increase digestibility. Some cows are so greedy for salt that, when allowed to help themselves, they will eat so much as to produce scouring. Such are exceptional cases.

SANITARY CONDITIONS.

Aside from the quality of the product sanitation pays, and pays well. Sunlight is Nature's greatest germ-killer and promoter of growth. Experiments with calves have shown that under the same conditions of feed and care, those furnished sunlight made better gains in weight, and were more vigorous, than those confined in dark quarters. Dairy cows always appreciate a congenial environment. Much available energy is wasted by compelling a cow to warm up a cold, damp room, or dry out saturated bedding. If these comforts are not furnished the cow, she uses considerable food in an attempt to secure them.

BALANCED RATIONS

Ration, is the term applied to the amount of food consumed by an animal in 24 hours. There are various kinds of rations to meet the needs of a variety of animals under different conditions When the food requirements of an animal are approximately met, no more, no less, its ration is said to be balanced. A ration suitable for a draft horse at work will not be balanced for one at rest. Neither will the ration that sustains a cow producing 15 pounds of 3.2 per cent. · adequate for one of the same live weight producing 35 pounds of 4 per cent. milk. The expression, "balanced ration." is a relative term, and depends upon the food requirements of the animal and the amount of digestible nutrients in the foods available.

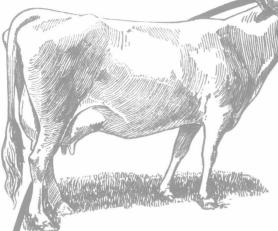
The nutrients contained in all feeding stuffs, animal bodies and milk, may be divided for convenience into the following

Ash (mineral matter).

Protein (nitrogenous matter 16 per cent. nitrogen)

('arbohydrates (sugar, starch, cellulose) Fats or oils.

The first two need no consideration here, because water, though essential, is



Get More Milk-Fat More Beef

Milk in the cow and fat on the steer are both the result of the digestion of food over and above that required to maintain life and repair waste. You see, then, that the whole profit in feeding for either milk or meat is vitally connected with one bodily function-digestion.

Weaken the stomach and other digestive organs, and appetite goes off, or the manure heap is made the richer by undigested nutriment. Strengthen these vital parts, and appetite is sharpened, your milk pail fuller and your steer heavier. Therefore we say. 'Aim at all times to strengthen animal digestion.'

DR HESS STOC

makes stomach, intestines, their nerves and every other organ of the animal act up to full capacity, a condition which we have already seen means profitable production. Dr. Hess Stock Food is not a ration, or to be fed alone; but given twice a day in the ration, it brings about the greatest possible assimilation, or healthful use, of large quantities of food.

Increasing the stockman's profit by increasing digestion is known as "The Dr. Hess Idea." Dr. Hess (M.D., D.V.S.) believed it possible to put feeding on a more paying basis by making perfect digestion, and for that purpose he formulated his Stock Food. We have seen how it benefits the cow and the steer—it is just as valuable for the horse, sheep or hog.

One very important thing about Dr. Hess Stock Food is the way in which it makes appetite for rough fodder. Cattle receiving it eat much hay and stover, which, of course, is a saving of grain. It also (by increasing digestion) saves waste of food in the manure.

The ingredients in Dr. Hess Stock Food are indorsed by such men as Professors Winslow, Quitman and Finlay Dun, and it is sold everywhere on a written guarantee. The dose of Dr. Hess Stock Food is small and fed but twice a day.

DR. HESS & CLARK.

100 lbs. \$7.00;
25 lb. pail \$2.00.

Smaller quantities at a slight advance. Duty paid.

DR. HESS & CLARK.
Ashland, Ohio, U. S. A.

Also Manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer. FREE from the 1st to the 10th of each month—Dr. Hess (M.D., D.V.S.) will prescribe for your alling animals. You can have his 96-page sterinary Book any time by asking. Send 2c stamp and mention this paper.

DR. HESS POULTRY PAN-A-CE-A It's not a difficult thing to have plenty of eggs almost the year round fryou make Dr. Hess Poultry Pan-a-ce-a part of your daily feed. A put to use more of the egg-producing food. This is known as "The Dr. Hess Idea"—to give strength to digestive organs and so prevent food waste, it heing evident that the more food used the more eggs would be laid.

Dr. Hess Poultry Pan-a-ce-a, besides making eggs, also helps toward the fatting of a market bird, shortens moulting time and is very good indeed for growing chicks. It has the endorsement of Poultry Associations in both United States and Canada and cures gapes, cholera, roup, etc. It is sold on a written guarantee: one penny's worth being enough for 20 hens one day.

1% lbs. 85e; 5 lbs. 85e; 12 lbs. \$1.75; 25 lb. pail \$8.50. Buty paid. Send 2c for Dr. Hess 48 page poultry book, free.

INSTANT LOUSE KILLER KILLS LICE

Glen Gow Shorthorns Sunnyside Stock Farm



Our present offering is 9 bulls from 6 to 14 months of age, sired by imp. Ben Loman and imp. Joy of Morning, and out of imp. and Canadianbred cows. Also a number of very choice heifers. No fancy prices asked. Long-distance phone. WM. SMITH, Columbus, Ontario Brooklin and Myrtle Stns.



Bulls in service: Queenston Archer = 48898=, Trout Creek Stamp = 67660=. A number of first-class young bulls, red and roan, and a few cows and heifers, for sale. Prices right. JAMES GIBB,

Brooksdale, Ontario

E. T. CARTER & CO. 84 Front Street, East, TORONTO. CANADA.

ESTABLISHED 1865.

Write for our LATEST PRICE LISTS CONSIGNMENTS SOLICITED. We Pay All Express Charges.

Prompt Returns

Shorthorns teen months old, =70046=, and several choice heifers from imported sires, and bred to imported bulls. Come and see them. Wellington Stouffer. Ringwood P. O., Ont. Stouffville station, G. T. R.

Stock Bull Trout Creek Sallor = 59421 = 247242, A. H. B., for sale; also roan show bull, fit for service. A M. SHAVER, ANGASTER, ONT. Station 13, Brantford and Hamilton Electric Line; three minutes walk from barns. Inspection invited. Priced right.



Stoneycroft Ayrshires

Choice young bulls and heifers of the very best breeding, combining show and dairy quality.

Large Improved Yorkshire Pigs from imported sires and dams, now ready to ship.

Stoneycroft Stock Farm, Ste. Anne de Bellevue, Que.

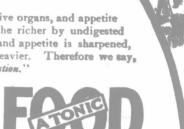
For sale: 75 pure-bred registered Ayrshires, all ages; prizewinners; many imported. Apply to LLAN P. BLUE, Eustis, Quebec. Dundas Station and telegraph. Clappison, Ont ALLAN P. BLUE,

HOWGLEN AYRSHIRES! AYRSHIRES Bull and heiter calves from producing dams. Right good ones.

We will sell or exchange for a young cow our (inp.) 3-year-old bull. On hand: Young bulls fit for service (imp. or home-bred). Choice August and September, 1908. calves from imp. sires, some imp. dams. One a grandson of Eva of Menie. Females any desired age. Bargains now, as we are crowded. We will only fill young sows ready to breed. 'Phone Campbellford.







Stonehouse Ayrshires.



36 head to select from, All imported or out of imported sire and dam. For sale: females of all ages. Am now booking orders for bull calves. HECTOR GORDON, Howick, Quebec.

Stockwood Ayrshires! My Ayrshires are producers as well as show stock. For sale

are females of all ages. Also my stock bull, Pearlstone, a high-class sire and show bull. Am now booking orders for bull calves. D. M. WATT, ST. LOUIS P. O. S. STA., QUE.

Ayrshires from a Prizewinning Hord—Have some nice bull and heifer calves for sale at reasonable prices. For particulars, etc., write to WM. STEWART & SON, Campbellford Stn. Menie P.O., Ont. etc., write to Campbellford Stn.

UTILITY GLENORA OF KELSO = 15798=
AYRSHIRES at head of herd. For sale: Females of all ages, and several young bulls, some out of 11,000 lb. cows. Come and see, or address: R. C. CLARK, Hammond. Ont. Railway station, Hammond (G. T. R. and C. P. R.).

CHERRY BANK AYRSHIRES.

I am now offering young bulls and heifers true to type and high in quality. Some with imp; sire and dam; also will spare a few older females dam; also will spare a few older temales
P. D. McArthur, North Georgetown P. O., Que.
Howick station, Que.

STOCK FOR SALE AT A number of Springburn Stock Farm Ayrshire bulls and heifers of deep-milking strain. 15 Oxford Down shearling and ram lambs. Ewes any age. Prices reasonable H. J. WHITTE-KER & SONS, Williamsburg, Ont., Props.

Ayrshire Cattle for Quick Sale—Choice bulls, heifers and cows, imported or Canadian-bred, for immediate sale. Prices very low considering quality. Good teats. Heavy milkers. For particulars write: WILLIAM THORN. Trout Run Stock Farm, Lynedech, Ont., Norfolk Co.

BUSINESS HOLSTEINS! Over 60 head to select from. Milk yield from 60 to 85 lbs. a day, and from 35 to 47 lbs. a day for 2-yr.-olds. There are 10 2-yr.-old ers. 8 1-yr.-olds. ers, 81-yr, olds, and a number of heifer calves. Bulls from 1-yr, old down. Priced right. Truthfully

