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THE FARMER'S ADVOCATE.



MAKES HENS LAY

Your hens will lay all the year round, if you will give them Smith's Ovary Tonic once a week.

One teaspoonful to four fowls keeps hens healthy — strengthens and invigorates the egg-producing organs-and renews wasted tissue due to prolific laying.

Only 25c. and 50c. a bottle. Sold by druggists, grocers, etc. NATIONAL DRUG & CHEMICAL CO., LIMITED, MONTREAL.

Burnside Ayrshires



R. R. NESS, JR., HOWICK, QUE., P.O. AND STATION.

SUNNYSIDE STOCK FARM Forsale: A number of young SHORTHORN BULLS, red and roan, from imported sire and dams; good enough to head pure-bred herds. Apply:

JAMES GIBB. Brooksdale, Ont.

six-months pigs, pure Yorks.
\$15 per pair.

50 six-months pigs, \$14 per pair. 100 fall pigs, \$6 per pair.

Purchasers must make own selection. Apply A. SUMMERS, Yalley Farm, Aldershot P. O., Ont.

Wm. Grainger & Son



Hawthorn herd of deep-milk ing **Shorthorns**. Aberdeen Hero (imp.) at head of herd. Three grand young bulls, also femeles all offer Driver. females, all ages. Prices reasonable. Londesboro Station

and P. O. For Sale: Two Young

Shorthorn Bulls

Also Cows and Heifers, and one good Imp. York. Sow, also a good Yorkshire Boar one year old. Good breeding and good animals

DAVID MILNE, ETHEL, ONT. **ELM GROVE SHORTHORNS**

We have for sale some good young cows and heifers, of the Fashion and Belle Forest fam-ilies, in calf to Scottish Rex (imp.) or Village Earl (imp.), our present herd bull. For prices and particulars address

W & CANDEDE & CON

FOR SALE AT FARMERS' PRICES Registered Jersey & Guernsey Bulls all ages, including a pure St Lambert bull, 4 wears, and one Guernsey bull, 2 years, out of imported dam. Others equally bred and good individuals. All were exhibited at Ottawa and Sherbrooke, 1906, and won in their respective classes. A rare chance to get a dairy bull, also a few females Address: **E. PHELPS BALL**, **Lee Farm, Rock Island, P. Q.**

Pine Ridge Jerseys For sale very cheap some choice young bulls, bred in the pupple, of ideal type; also a few heifers and heifer calves, and some Cotswold shearling rams and ram lambs. Wm. Willis & Son, Newmarket P, O. & Sta.

Ayrshires and Yorkshires We always have on hand choice animals of above breeds, of any desired age. Prices reasonable write us before buying. Intending purchaser met at Hoard's. Alex. Hume & Ce., Menie P. C.

Ayrshire Bulls — A select pair (13 months old) by a son of the champions Douglasdale (imp.) and Minnie of Lessnessock (imp), and out of daughters of imp. cows; also two March calves and one May (all select). W. W. BALLANTYNE, Long-distance 'phone. Long-distance 'phone. Stratford, Ont.

Wardend Ayrshires We are offering young bulls from 1 to 2 years old; also a choice lot of spring calves from deep milking dams. Sired by White Prince of Menie No 1825; bred by A. Hume. Menie. F. W. TAYLOR. Wellman's Corners, Hoard's Stn., G. T. R.

HIGH - CLASS AYRSHIRE CATTLE Bulls and heifer calves, two to nine months old, oows and heifers all ages. Prizewinners from this herd include Tom Brown and White Flose sweepstakes at Chicago. DAVID BENNING & SON. "Glenhurst." o Williamstown, Ont.

SPRINGBURN STOCK FARM. North Williamsburg, Ont., H. J. Whitte-ker & Sons, Props., breeders of pure-bred Ayrahire cattle, Oxford Down sheep, Berkshfre pigs, and Buff Orpington fowls. Young stock for sale. Visitors welcome.

RIVERSIDE



FEED TO PURCHASE-SORGHUM.

I have clover hay, wheat straw by itself, oat and barley straw mixed (all straw cut when threshed); sugar cane, and of grain, oats and barley as it grew.

1. What food would be the most economical to buy to complete ration for cows and steers ?

2. What are the constituents and nu-

tritive ratio of sugar cane? 3. How does sugar cane compare with

ensilage in food constituents and value? E. M. Z.

Ans.-1. A balanced ration could be made from the above materials alone, but it would not include much of the sugar cane and straw. Unquestionably, the proper materials to buy would be oil-cake meal, cottonseed meal, gluten meal, or bran, named in order of preference. For the sake of calculation, we supposed a daily ration made up of: Clover hay, 10 lbs.; oat and barley straw, 3 lbs.; sugar cane, 5 lbs.; oat and barley chop, 5 lbs. This would be hardly sufficient for either cow or steer, but gives us a working basis. The ration named would contain about 1.324 pounds protein, 8.927 pounds of carbo-hydrates, and .367 pounds fat. As is well known, fat and carbohydrates serve similar purposes in the animal economy, though a pound of fat is worth 2.3 pounds of carbohydrates. Expressed in terms of carbohydrates, our ration would have 8.927+.8541=9.771 pounds of carbohydrates and fat. This gives us a nutritive ratio of 1.324 : 9.771 or 1 : 7.4, which is rather too "wide" for steers, and entirely too wide for milch cows. Addition of 11 lbs. oil-cake meal to the above would give us 1.684 lbs. protein, 9.395 lbs. carbohydrates, and .520 lbs. fat (nutritive ratio of about 1:6.3). Just what is the ideal nutritive ratio is impossible to state dogmatically, but 1:6.3 would not be far astray for steers. For milking cows, such a ration would be further improved by adding a little more clover hay and a little bran, gluten or cottonseed meal. A little bran is always a good thing to feed, though at present prices, oil cake is a more economical stuff for balancing the ration. Of course, individual requirements of animals vary greatly, but the above, we trust, will serve as a working guide. Two or three pounds of wheat straw may be substituted for an equal amount of oat or barley straw without seriously altering the nutritive value.

2. In Jordan's "Feeding of Animals," we find the following comparison of sorghum with dent and fiint corn fodder, all being analyzed in the green state :

er at. 5575



FOUNDED 1866



sired by the grandly-bred imp. bull, Sir Howitte B. Pietertje, whose dam record is over 89 lbs. milk in one day, and from great-producing cows of the most fashionable strains. Can spare a lew cows and heifers, from one year up; 75 head to select from. Cheese 13c. Don't delay if you want one from this herd.

H. E. GEORGE, Crampton, Ont. Cows from the

NANDALE HOLSTEIN HERD

Have won during the past show season at Ottawa first and sweepstakes on cow, first on 3-year-old, first on 9-year-old elass. At Guelph (dairy test) first and sweepstakes on cow, first and second in heifers. At Chicago (National) first and sweepstakes on cow, also second-prise cow second and third on 4-year-olds, second on 1-year-old heifers, and a host of other prises (different cows at differ-ent shows) Bull colvers 4 months and moderate

Bull calves, 4 months and under only, for sale from great dams and greatest of sires. Buy young if you want them from Annandale Stock Farm.

GEO. RICE, Tillsonburg, Ont.

WOODBINE HOLSTEINS Herd headed by Sir Mechthilde Posch, abso-lutely the best official-backed sire in Canada. Dam Ianthe Jewel Mechthilde, 25.8 pounds butter in seven days. Champion cow of Can-eda ever all breeds. Sire's dam, Asltis Posth ith, helds the world's largest two-day public test record—8.6 pounds butter. Young bulks of the choicest quality for sale. A. KENNEDY, Ayr, Ont.

Ayr. C.P.B.; Paris, G.T.B.

HOLSTEINS AND YORKSHIRES R. HONEY, Brickley, e a choice lot of young boars fit for o sows ready to mate





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Box 1133. St. Thomas, Ont.	HOLSTEINS		offers for sale a choice lot of young boars fit for service ; also sows ready to mate.
ROSEDALE SHORTHORNS Do you want a profitable cow with calf at foot and bred again; also heifers bred and heifer calves from imported stock. Choice milk strains Write: A. M. SHAVER, Ancaster, Ont. Hamilton station	vanced Registry Holsteins has for im-	Ter (carb drat 11 12 12	Greenwood Holsteins and Yorkshires For sale: A few richly bred bulls from one to eighteen months old. Also a few choice females of all ages. Yorkshires of either sox. D. Jones, Jr., Caledonia P. O. and Sta.
High-class Shorthorns — We are now offer- ing 5 young bulls and 5 heifers, two, three and four years of age. Marigolds the eldest, a daughter of Imp. Royal Member, has a calf at foot by Sailor Champion This is an extra good lot. THOS. REDMOND, Millbrook P.O. and Sta.	dams have butter records averaging 22.86 pounds of butter in seven days, and out of A. R. dams and their daughters. M. RICHARDSON & SON,	. Percen Protein 1.3 2.	At for service, for sale at reasonable prices. Choice females, all ages. If you are willing to pay good prices for good stuff, write me.
DURHAM CATTLE FOR SALE	Caledonia, Ont.	Por cent water, 79.4 79.8 79.	G. W. CLEMONS, St. George, Ont.
I have for sale two young bulls, & months old, sired by Imp. Rustic Chief =40419= (79677); also a few females, among them a young cow fit for any show-ring. HUGH THOMSON, Bex 556 St. Mary's, Ont.	CENTRE AND HILLYIEW HOLSTEINS Bulls 1 year and under for sale, from great- testing dams and sires, all in A. R. O. Records. Our prizes in milk test in America's A. R. O. Records is, 1st prize in 30-day; 5th in 7-day; 5th in 7-day, over 8 months milking. P. D. EDE. Oxford Centre P.O.	(green)	Lyndale Holsteins. For Sale A number of bull calves from one to four months old, out of Record of Merit cows, and sired by Beryl Wayne Paul Concordia, whose four nearest dams have official butter records averaging 22 lbs. 11 ost. each. BROWN BROS., LYN, ONT.
Sheep and Cattle Labels Will enable you to properly take care of your stock. Write to day for circular and fample. Address F. G. James. Bowmanville, Ont. HIGHGROVE JERSEY HERD.	MAPLE GROVE HOLSTEIN HERD is made up of Record of Merit cows and heifers with large records and headed by Lord Wayne Mechthilde Calamity. Young built of the	dium fodder t-corn fodde -corn fodde	"GLENARCHY" HOLSTEINS 43 head of big, deep flanked, heavy-producing Holsteins, many of them milking from 50 to 60 1bs. a day on grass. Young stock of both sexes for sale. A straight, smooth lot. G. MACINTYRE, Renfrew P. O. and Sta
Our present offering is : a few choice helfer enves from 3 to 8 months old, which, considering quality, will be sold reasonable. ROBT. TUFTS & SON, Tweed P.O. & Sta.	at reasonable prices. Walburn Rivers Fold+n's, Ont Glenwood Stock Fam Holsteins and Holsteins all sold out. Have a few young York shire sows, about 2 months old, for sale cheap. True to type and first-class. Bred from imported stock. THOS. B. CARLAW & SON, Warkworth P.O. Campbellford Stn.	According to the above, sorghum is poorer in protein than is or linary corn fodder (corn folder in these analyses he- ing rather-thickly-planted corn that has	GROVE HILL HOLSTEINS - We now offer for sale our stock bull. Verbelle 4th's Count Calamity Born December, 1902. Only two of his Aaughters have been tested, and both are in Record of Merit. He is a show animal, and a per- sistent stock getter If you want a bargain write: F. R. MALLORY, Frankford P. O. and Stn., C. O. R. Trenton Stn., G. I. R.
stock; also females of all ages. For full partie ulars address: B. H. BULL & SON, 'Phone 62.	HILTON STOCK FARM - Holsteins, Cotswolds and Tamworths-Pres ent offering: Some young cows; a nice lot	not been husked). On a basis of the above figures, the mutritive ratio of green sorghum would be $1.3 \pm 11.64.5 \times 10^{-5}$	MAPLE PARK HOLSTEINS Home of the great De Kol Distortia and Posch
When Whiting Disease Mandian Ahis Dansal	of young pigs; few boars six months old, and sows in pig. R. O. MORROW & SON, Hilton P. O., Brighton Tel. and Stn.	2.3 $1.3 + 11.6 + 1.15 - 1.3 + 12.75 + 1 + 9.8$. The matritive ratio of the flint core	Schuling, testing over 4% butter-fat officially, and grandson of Altie Posch stock bull
S. MACKLIN, PROP., STREETSVILLE.			
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