



An IHC Gasoline Engine Will Pay You Best

If you really want your money's worth when you buy a gasoline engine, buy an IHC with plenty of power to do your work. A gas engine that is not well designed, that is built roughly or of inferior material, is worse than none at all. It costs almost as much as a good engine to begin with, and costs much more afterward in repairs and loss of time.

Buy a reliable IHC engine and save yourself an endless amount of worry, lost time, money, and temper.

IHC Gasoline Engines

are simple, dependable, durable. The carburetor or gasoline mixer is the simplest and most effective known. Anyone can regulate it perfectly. Ignition is positive. The ignition apparatus is so simple you can understand it at a glance. The fine-grained, grey, cast iron cylinders and pistons are worked together to a perfect fit. The ground piston rings insure maximum power from the explosion.

All moving parts are perfectly balanced. The bearings are unusually large and carefully fitted. Every part is amply strong and no part is too heavy to be most efficient. In every detail, the IHC is a good engine—one you can depend upon for years to do your work when you want it done.

IHC engines are made in all styles—vertical and horizontal, portable and stationary, air and water-cooled; in sizes from 1 to 50 horse power, to operate on gas, gasoline, naphtha, distillate, kerosene or alcohol. Gasoline and kerosene tractors, 12 to 45-H. P. Grinding, sawing, pumping, and spraying outfits, etc.

The IHC local agent will show you the good points of the IHC engine. Get catalogue from him, or, write the nearest branch house.

CANADIAN BRANCH HOUSES

International Harvester Company of America
(Incorporated)

At Brandon, Calgary, Edmonton, Hamilton, Lethbridge, London, Montreal, North Battleford, Ottawa, Quebec, Regina, Saskatoon, St. John, Weyburn, Winnipeg, Yorkton.

IHC Service Bureau

The purpose of this Bureau is to furnish free of charge to all the best information obtainable on better farming. If you have any worthy questions concerning soils, crops, land drainage, irrigation, fertilizer, etc., make your inquiries specific and send them to IHC Service Bureau, Harvester Building, Chicago, U.S.A.



KING SEGIS WALKER



The highest pedigreed sire in Canada. Average record of dam, gr. dams and g. gr. dams: Butter, 28.36 lbs.; milk, 544.42 lbs.; fat, 4.24 lbs. Fee for service, \$25. This sire's get are 80 per cent. females. For sale: Sons and daughters of this sire from high-record daughters of Pontiac Kornidye and King Segis.

A. A. FAREWELL, Oshawa, Ont.

LAKEVIEW HOLSTEINS!

Bull calves sired by Dutchland Colantha Sir Mona, and out of heifers sired by Count Hengerveld Fayne De Kol.

Telephone. E. F. OSLER, BRONTE, ONTARIO

Fairview Farms Herd

Is where you can secure a son of Pontiac Kornidye, admitted by all breeders to be the greatest

Holstein sire that ever lived. Look what his daughters are doing. Two of them with records over 37 lbs. each. Then, look at the work his sons are doing. HE IS THE GREATEST PRODUCING SIRE OF THE BREED, THROUGH HIS SONS. Every son of Pontiac Kornidye that has daughters old enough to milk is a sire of good ones. We can offer you several young ones that will give you great daughters.

E. H. DOLLAR, HUEVELTON, N. Y.

SUMMER HILL HOLSTEIN CATTLE and YORKSHIRE HOGS

Our senior herd bull, Sir Admiral Ormsby, is the sire of the world's record 2-year-old for yearly butter production. Also sire of the three highest record four-year-olds in Canada. The dam of our junior herd bull made 34 60 lbs. butter in 7 days, and gave 111 lbs. milk per day. Come and make your selections from over 70 head.

In Improved English Yorkshires we have won 95 per cent of all first prizes at Toronto Exhibition for ten years. We are still breeding them bigger and better than ever.

Buy Summer Hill Yorkshires, the big, quick-maturing kind, and double your profits.

D. C. FLATT & SON, R. F. D. No 2 Hamilton, Ontario, 2471, Hamilton.

Centre and Hillview Holsteins—We are offering young bulls from Sir Ladie Cornucopia Clothilde, the average of his dam sire dam and grand dams is 662.8 lbs. milk and 30.58 butter, 7 days, and 2,750.80 milk and 114.5 butter in 30 days; also Brookbank Butter Baron, who is a proven sire. He is sire of champion 3-year-old 30-day, 2-year-old 7-day and 2-year-old 30-day. Long-distance phone. P. D. EDE Oxford Centre P.O. Woodstock Stn.

Evergreen Stock Farm—High class Registered Holsteins for Sale. A splendid lot of heifers rising one year old, and heifer calves, good enough for foundation stock. Come and see them, or write for what you want. Satisfaction guaranteed.

A. E. HULET, Norwich, Ontario

Silver Creek Holsteins We are now offering about a dozen yearling heifers and 3 young bulls. They are all of superior type, and King Fayne Segis Clothilde, whose 7 nearest dams have officially backed on both sides. King Fayne Segis Clothilde, whose 7 nearest dams have 7-day records that average 27 lbs., is at head of herd. A. H. TEEPLE, CURRIES P. O., Ont., Woodstock Station. Phone connection.

MENTION THE FARMER'S ADVOCATE WHEN WRITING ADVERTISERS.

QUESTIONS AND ANSWERS. Miscellaneous.

CANADIAN CHALLENGE SHIELD

1. Will the Canadian Challenge Shield be competed for at the Dominion Exhibition at Ottawa in September?
2. Will it be awarded each year?
3. What are the rules and regulations governing competition for same?
4. Will the Western Fair change its date till after it?

J. S.
Ans.—1. Yes; according to rules.
2. Yes.
3. It is presented for the champion Clydesdale stallion, bred, born and reared in Canada.
4. Not likely. The dates are set, and conflict.

PROBABLY COW POX.

Can you tell me what ails my cows? Small, white blisters come at the base of the teats, the size of a pea, and in a day or two hard lumps come under the blister and get very sore, scab over, and bleed. I have used lard without much success, as it was only on one cow two months ago. Six of the cows have it now. What is it? What will cure it? Would it be advisable to wash the hands after milking each cow?

H. D.
Ans.—This is probably cow pox, a contagious disease which takes about three weeks to run its course, and the contagion is liable to be carried from one cow to another by the hands of the milker, and for this reason the person milking affected cows should not milk others unless the hands are disinfected after milking a diseased cow. Dress the sores three times daily with an ointment composed of boracic acid, 4 drams; carbolic acid, 20 drops; vaseline, 2 ounces. Mix.

STOCK AND POULTRY FEEDING QUERIES.

1. How is cotton-seed meal made?
2. How is molasses meal manufactured?
3. To what live stock could the former be fed with advantage? What the latter?
4. Is oyster shell made use of by chickens simply as a shell-producer, or has it other value?
5. Has broken crockery any food value to chickens?
6. Is there any advantage in exchanging chop from mixed grain (barley, oats, wheat and buckwheat) for shorts for little pigs, both chop and shorts at \$1.45 per cwt.?

H. P.
Ans.—1. Cotton-seed meal is a by-product in the manufacture of cotton-seed oil. It is made at the oil mills by cutting the leathery hulls off the cotton seed by machinery, setting free the oily kernels, which are heated, placed between cloths, and pressed to remove the oil. The residual cake is the cotton-seed cake. For home trade, this cake is ground into meal.

2. There are several kinds of molasses feed. Cane or beet molasses forms the basis of these. Other material is used to make up the feed, and methods and proportions are known only to the manufacturers.

3. Cotton-seed meal should not be fed in large quantities to growing calves or pigs, as it seems to have a somewhat poisonous effect. In small quantities, it is good feed for dairy cows and fattening steers. It is also said to be good for horses fed in small quantities. Molasses meal, if it contains a large proportion of cane molasses, is valuable in fitting stock for show, or in finishing beef calves or steers. It is palatable, and much relished by stock. Beet molasses is not a good feed, as it is bitter and purging.

4. Ordinarily, chickens should get enough lime for body maintenance without oyster shell. It is chiefly used as a shell-producer, and no doubt has some value as a grit.

5. Broken crockery, if fine, would be of some value as a grit, but it is not the best form of even this. It would have no food value.

6. Shorts are considered by feeders one of the best feeds to start young pigs on. Mixed chop, like that suggested, would be rather strong for newly-weaned litters, and some advantage might be obtained by exchanging a small quantity of it for the shorts. As the pigs get older, gradually substitute the grains for the shorts, which could be used as a part of the ration for some time.

HAD WEAK and DIZZ YSPELLS COULD NOT SLEEP AT NIGHT.

People all over this land toss night after night on a sleepless pillow, and do not close their eyes in the refreshing slumber that comes to those whose heart and nerves are right.

The sleeplessness comes entirely from a derangement of either the heart or nerves, or both, but whatever the cause Milburn's Heart and Nerve Pills offer the blessing of sound refreshing slumber. They do this by their invigorating effect on the heart and nerves, and will tone up the whole system to a perfect condition.

Mrs. A. E. Martell, Rockdale, N.S., writes—"I was troubled for a long time with my heart, had weak and dizzy spells, could not sleep, and would have to sit up the greater part of the night, and it was impossible for me to lie on my left side. At last I got a box of Milburn's Heart and Nerve Pills, and they did me so much good I got another, and after taking it I could lie on my left side, and sleep as well as before I was taken sick. They are the best medicine I ever heard of for heart or nerve trouble."

Price 50 cents per box, or 3 boxes for \$1.25, at all dealers or mailed direct on receipt of price by The T. Milburn Co., Limited, Toronto, Ont.

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The most profitable dairy breed, greatest in size, milk, butter-fat and in vitality. Send for FREE illustrated descriptive booklets.
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Holsteins of Quality

Write us to-day for our proposition, telling us how any good dairyman may own a registered Holstein bull from a Record-of-Performance cow without investing a cent for him. **Monro & Lawless, "Elmdale Farm," Thorold, Ont.**

Welcome Stock Farm Holsteins

Out of "Netherlands Pride" (gave 55 lbs. milk as a three-year-old), by "Wi nie Coust Pasma," a nice straight, well grown, bull calf, quality all over, considerably more white than black, and nicely marked. Sh. uld be ready for light service soon. First check of \$45 takes him.

C. BOLLERT, R.R. No. 6, Tavistock, Ont.
J. LEUSZLER, R.R. No. 1, Cassel, Ont.

Maple Soil Stock Farm

of High-Testing Holsteins—I have at present some bull calves, with dam and sire; dam averaging over 25 lbs. of butter in 7 days, testing better than 4 per cent. Phone connected.

H. C. Holtby, Belmont P. O., Ont. Belmont Stn., C.P.R., or Glanworth Stn., G.T.R.

The Maples Record of Merit Holstein Herd

A few choice bulls ready for service, sired by King Posch De Kol; also a few young bull calves, sired by Prince Aargie Mechthilde, whose dam won first at Toronto, 1911, and sire's dam first in dairy test at Guelph, 1908 and 1909; his three nearest dams average over 25 lbs. butter in 7 days.

WALBURN RIVERS, POI DEN'S, ONTARIO

Yorkshires and Holsteins

RICHARD HONEY & SONS, Minister Farm, Brickley, Ont., offers bargains in choice young boars and sows fit to mate, sired by Monk and Rooster 4th and from prize-winning sows. Orders taken for this spring's bull calf from Lakeview, Burke Fayne and large producing sows.

Elmwood Holsteins—Choice bred, registered Cows, Heifers, Calves, Spring Crop 1912. March, April and May delivery; Sired by Imported Y Rema Sir Posch and Elmwood Sarcastic, Grandson of Sarcastic Lad. Best breeding, right prices. Express pre-aid. Safe delivery guaranteed.

E. D. GEORGE & SONS, Putman, Ont.

Evergreen Stock Farm offers a choice lot of bulls ready for service, from high-testing, de p-milking Record of Merit ancestors. Also a few females for sale. Herd headed by Francy Sir Admiral; dam's record 26.71, sire Sir Admiral Ormsby. Write for prices.

F. E. PETTIT, Burgessville, Ont.

Holstein Bulls for sale—Springbank farm is offering two choice bred Holstein bulls for sale at reasonable prices. For particulars write to: Wm. Barnett & Sons, Living Springs P. O., Ont. Fergus station, C. P. R. and G. T. R.

Maple Line Holsteins and Yorkshires—Herd headed by Homestead Colantha Sir Abbecker 2nd, whose dam, sire's dam, g. dam, average 29 61 lbs. butter 7 days. For sale at bargain prices, choice bull calves from R.O.P. cows. W. A. BRYANT, Middlesex Co., Cairnferm, Ont.

Maple Grove Holsteins—Herd headed by King Lyons Hengerveld, the greatest 30 lbs. back butter bred bull of the breed in this country. For stock of this kind, address:

H. BOLLERT, Tavistock, R. R. No. 5, Ont.