



Do You Raise Every Chick Hatched?

Yes! Should and You Can, If
PRATT'S Baby Chick Food is fed in the first three weeks. It contains the
 nutritive elements to build sturdy, vigorous, healthy chicks. Order a
 package **TODAY!**
 "Your Money Back if it Fails."
 At your dealer's, 14 lb. bag, \$1.00;
 6 lb. bag, 50c.; 3 lb. bag, 25c.

PRATT FOOD CO.
 of CANADA, Limited,
 TORONTO, P.E.

ADVERTISE

in these popular col-
 umns which others
 find so profitable
 costs you only \$1.40 an inch

BABY CHICKS

Order your baby
 chicks now from our
 splendid laying
 strain of **SINGLE**
COMB WHITE
LEGHORNS.

UTILITY POULTRY FARM

T. G. DELAMERE, Prop.
 STRATFORD - ONT.

EGGS, BUTTER AND POULTRY

For best results, ship your live Poultry to us
 also your Dressed Poultry, Fresh Dairy Butter
 and New Laid Eggs. Egg cases and poultry
 crates supplied. Prompt Returns.

The **Wm. DAVIES** Co.
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 Established 1854 TORONTO, ONT.

CORN THAT WILL GROW

Money back if not satisfied
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J. O. DUKE, RUTHERN, Ont.



All "ARLINGTON COLLARS" are good,
 but our **CHALLENGE BRAND** is the best

BARGAINS—A few Cookerels, Barred
 Rocks, Brown Leghorns, Bluebirds and
 Black Minorcas. Either utility or prize-
 winning stock. Also Eggs for hatching.
 S. Kingside Poultry Yard, Highgate,
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EGGS

EXPRESS PREPAID—All the standard breeds of
 Chickens, Ducks, Geese and Turkeys. **EGG GLASS**
STRAINS. Write today for mailing directory
 broods—also poultry supplies. **IT'S FREE.**
J. H. RUTHERFORD, Box 63
 Canby, Ind., U.S.A.



Factors in Hatchability

"Why do eggs not hatch?" has
 been an eternal and largely unsolv-
 ed question with poultry keepers.
 Some experiments that were con-
 ducted by Prof. A. G. Phillips when
 he was at Cornell University, and
 reported in Farm and Home, serve to
 throw some light on the question.

In one experiment conducted by
 Prof. Phillips three lots of 50 eggs
 each were kept two weeks in average
 temperatures of 80, 65 and 50 degrees
 respectively. When they were placed
 in the incubator the percentage of
 fertility ran 24, 88 and 90, and the
 final hatch was 0, 43 and 70 per cent.
 This indicates clearly the advisability
 of keeping eggs in a room of not
 higher than 50 degrees temperature.

To determine the effect of age at
 time of setting or the hatchability of
 eggs, Prof. Phillips took those lots of
 50 eggs each, which were kept one,
 seven, 14, 21, 28 and 35 days respec-
 tively in a suitable place and handled
 in a proper manner. The longer
 time the eggs were kept the poorer
 they hatched, running from 35 up
 to 86 per cent for fresh eggs.

STAND ON LARGE END

Another experiment proved that
 eggs held standing on the large end
 were eight per cent better than eggs
 held in any other manner. Another
 experiment in which three lots of
 eggs were kept 14 days in bran, in an
 ordinary egg case, and in a rotary
 egg holder, allowing free circulation
 and plenty of light, the last lot
 proved by far the best. The eggs
 held in bran were second best. Prof.
 Phillips' experiments did not show
 that dusty shells have any effect on
 hatchability.

Another factor in hatchability often
 discussed, and on which many poul-
 try men have fixed superstitions, is
 the effect of the shape of an egg on
 its fertility and hatching power. To
 determine this point eight sets were
 set as follows: Ridge around the mid-
 dle, small end twisted, thin shelled,
 the usual small end enlarged, short
 and round, long and narrow, small,
 double yolk. The fertility varied
 about 10 per cent except with lot 8,
 which was infertile. The small, thin
 shelled and enlarged end eggs had 70
 per cent fertility. The others had 80
 per cent. Lot 1 hatched 100 per cent
 fertile eggs; 2, 63 per cent; 3, 28 per
 cent; 4, 43 per cent; 5, 86 per cent;
 6, 33 per cent; 7, 28 per cent; 8, 0.

HOW TO HANDLE EGGS FOR HATCHING

After numerous experiments Prof.
 Phillips summarizes his deductions as
 follows:

"The fresher the egg the stronger
 it will be in fertility and hatchability.
 "Never keep eggs at all if the tem-
 perature is not cool.

"A temperature of 50 degrees or
 less is desirable.
 "Eggs should be turned sometime
 or other during the period of keep-
 ing."

"Washing the eggs affects them
 but little."

"It makes little difference what
 position the eggs are placed in when
 being kept."

"Abnormalities in the shell of eggs
 do not affect fertility and hatchabil-
 ity to any extent."

"I believe the hatching power of
 eggs is largely controlled by the vigor
 of the germ, and the supply of food
 material for the growing chick. Too
 many times cases have been noted of
 eggs that have been badly abused in
 various ways hatching large percent-
 ages. They did not hatch particu-
 larly on account of the conditions, but
 more in spite of them. I believe that
 the hen which laid the eggs has a
 wonderful influence on the hatching
 power, shape, etc., certainly has
 a little influence."

130-Egg Incubator and Brooder for \$13.90

If ordered together we send both machines for only \$13.90 and we
 pay all freight and duty charges to any R. R. station in Canada.
 We have branch warehouses in Winnipeg, Man. and Toronto, Ont.
 Orders shipped from nearest warehouse to your R. R. station.
 Hot water, double walls, dead-air space between, double glass
 doors, copper tanks and boiler, self-regulating. Nursery under
 egg tray. Especially adapted to Canadian climate. Incubator and Brooder
 shipped complete with thermometers, lamp, egg tester and all you need to get them.
 year guarantee—30 day trial. Incubators finished in natural colors showing the high grade Cal-
 fornia Redwood lumber used—not painted to cover inferior materials. If you are a customer
 machines with others, we feel sure of your order. Don't buy until you do this—put it more money
 will earn to investigate before you buy. Remember our price of \$13.90 is for both incubator and
 Brooder and covers freight and duty charges. Send for FREE catalog today, or send in your order and save time.
 Write us today.
 (Don't delay)

WISCONSIN INCUBATOR CO., Box 54, Racine, Wis., U. S. A.

Winter Eggs

Cooed-up hens must be supplied with
 egg-making food. What hens get in Sum-
 mer—the natural laying season—they
 must get in Winter or the egg yield will
 fall off.

Meat and Bone take the place of the live
 bugs, grubs and grasshoppers that go to
 make up a hen's summer ration. The
 Poultry experts, the Government bulletins
 —everyone that knows says "Feed Meat
 for Winter eggs."

Black Victor Meat Foods are clean healthy
 meat and bone from which all grease,
 waste and moisture have been removed;
 more economical than the cheapest fresh
 meat.

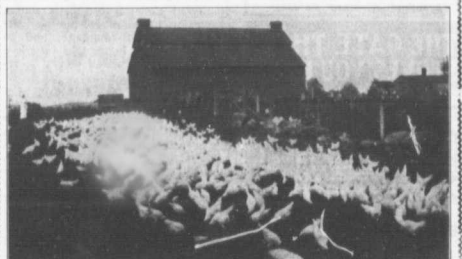
Write for complete price-list.

Matthews-Blackwell Limited - Toronto



Black Victor Meat Foods

Black Victor Meat Scraps, \$4.00, per
 cask. If your dealer cannot supply
 you, we will send it all charges pre-
 paid on receipt of the regular price.



Is the Incubator a Practical Success?—The Question Answered

There are 2,000 White Leghorns in this flock. Everyone of them were hatched
 in incubators. Mr. Chas. S. Bennett, who is in charge of the Prescott Co. Ont.
 farm on which the photo was taken, has been using incubators for the last
 eight years. He has had hatches that were not satisfactory, but he claims
 that they were not the fault of the machine. "I follow the instructions sent
 by the manufacturer," he writes. "Use eggs from vigorous, properly mated
 and well-fed stock. Handle the eggs carefully and the incubator should
 prove a profitable investment. The eggs used in hatch No. 2 of the following
 table were eggs that we purchased and afterwards found to be the result of
 poor mating. A large percentage of what did hatch were weaklings. Here is
 the sum of my incubator experience last year."

Machine	Date	No. Set	No. Taken out	Incubated	Left in	Strong Chicks
No.			1st Test	2nd Test	Hatched	Incubated
1	April 29	392	57	18	317	278
2	April 29	394	73	23	299	243
3	May 3	383	98	12	328	281
4	May 19	412	66	39	346	292
5	May 27	401	47	39	354	282
6	May 27	406	49	39	357	284
7	May 28	404	47	19	356	282
8	June 3	404	47	23	341	282
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