have a flock of large hens, under two years of age, he might begin by placing a vigorous Plymouth R ck or Dorking cockerel with them. In some, Dorking cockerel with them. In some cases both breeds might be kept. The foregoing remarks apply more particularly to the Plymouth Rock as a fowl for market, as egg producers the then found oxcollent, making a creditable showing against an equal number of White Leghorns and Wyandottes, three winters ago. Taken altogether, they are the best all round fowl the anything against the strong claims or, and but little care is taken but forth for the Dorking. Our ob- the practical details of the work.

SOMETHING ABOUT FATTENING CHICKENS

The proper care and food for the young chicks have been both remarkat length in the article of last month. It may be necessary, in order to get the young cockerels into prime condition for market, to confine them for a few days previous to killing them or taking them to market, feeding liberally meanwhile of such food as will put on flesh quickly. Previous to killing, the fowl should not be fed for twelve or twenty four hours, the position of the contents of the crop. A good fattening ration can be made of shorts, cornmeal or ground barley with the table-scraps, bits of meal, &c., &c., mixed up with any spare milk, or, when milk is scarce, hot water. Clean water should be before them all the time. The writer has never had any trouble in getting all the flesh he wanted on the cockerels for table use by simply feeding genefor table use by simply feeding generously and keeping them closed up for some days. In the case of the Plymouth Rock hens over two years for some days. In the case of the Plymouth Rock hens over two years of age the difficulty was to keep them from getting too fat. In certain quarters there is a prejudice against old hens for 'table use on the ground than they are so tough. When a hen is four or five years of age she is very likely to be tough eating, but take a Plymouth Rock hen of two or three years of age and let it boil gently for several hours, then roast, and if it is properly cooked and well stuffed it will make good tender cating. A poultry breeder of some note once romarked to the writer: Some people are under the impression that an old hen, per annum, corresponding to the hen. The Leghorn and Spanish come next with 190 and 155 eggs, but these are of larger size than those just mentioned; they amount to 551 and to combat the prejudice against the largest number of eggs, but the next mentioned; they amount to 551 and to combat the prejudice against the largest number in produce annually 120 eggs, the hords weight. The sixthen were annually 120 eggs, the hords weight. The largest ingredients in eggs are flow care of fundamental facts to be borne in mind when arranging the diet of a laying hen. We have already statedthat a laying be diet of a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a laying the diet of a laying hen. We have already statedthat a layin to combat the prejudice against the old hen. "That" said my friend " is old hen. the result of not knowing how to cook them." And he was right. i? ED.: However, there are many old hens bought for and eater as chickens every day and no one is: e wiser. Should the hen not be properly dressed and cooked, it year chosen being, of course, the one the case of the hen, as we have just is put down as an "old chick" or an of greatest production—that is, the seen that her produce, in the same "antiquated rooster." But the farmer second year in a hen's life. need not exercise himself about the fute of his old hens, he will find a ready market for well fed, plump is about 2 oz. Of this, 10—1 per cent. albuminoid ratio of eggs is, indeed, as chickens, and a superior class of customiss shell, having a thin lining members willing to pay a good price for a brane. About 95 per cent. of the shell superior article. We shall have some is carbonate of lime. The white and thing to say again as to market yolk, which form the contents, have a very different composition, as will be very different composition, as will be contents for the following formers.

Ottawa, 11th Oct. 1893.

POULTRY.

they are the best all round fowl the probably the case when there is very farmer can breed at present, and little knowledge of the principles while saying so we do not wish to say which should guide the poultry farm anything against the strong claims or, and but little care is taken with put forth for the Dorking. Our ob- the practical details of the work. On ject is to impress upon the farmers many farms the breed of fowls has the necessity of breeding better stock been allowed to deteriorate by perpendicular of the control of t for the market; to beg him to remember that it is no more trouble to
feed a pair of chicks that will make
eight pounds than a pair of culls that
tion of eggs, and the rearing of early
will weigh only half the figures

spring chickens, so that the highest
memory harmed prices may be realised in each case, are not made the subject of careful study. Ruts are often allowed to derive the chief benefit from the poultry flock.

> Scientific information on the subject of poultry is as yet but scanty. The! German investigators, from whom we generally obtain our most abundant supplies of knowledge, have not occu-pied themselves with the subject; our accurate information comes at present chiefly from France and Belgium. An excellent beginning has, however, been made in Canada. The Experimental Farm at Ottawa, under the Minister of Agriculture, has had for further to notice, by and by, a few in vestigations on poultry, carried out at two of the American experiment

seen from the following figures:-

	White.	Yolk.
Water	85.4	50.6
Nitrogenous Substanco		16.1
Fat	0.3	31.4
Other non - nitrogenous	I	
Matters	0.8	0.5
Ash	0.6	1.4
	100.0	100.0

amount of fatty matter.

The total amount of ash constituents in the contents of an egg is but small, but they are of vital impor-tance, as from them all the inorganic material required to construct the body of the chick must be supplied The ash of the white and yolk are quite different in composition: 100 parts of each contain as follows:-

,	White.	Yolk.
Potash		9.3
Soda		5.9
Lime	28	13.5
Magnesia	2.8	2.1
Oxide of Iron	.6	1.7
Phosphoric Acid	4.4	65.5
Sulphuric Acid	2.1	
Silica	1.1	.9
Chlorine	28.8	1.9

The white is thus rich in the alkalies, potash and soda, a part of the latter being apparently present as common salt. The yolk is extraordinarily rich in phosphoric acid; it contains also much more lime than the white. It is, in fact, the part of the egg which contributes most to the formation of bone.

1,000 lb. of hen's eggs, shells included, contain, of the most important constituents, the following quantities:

Nitrogon	Potash	Soda	Limo	Magnesia	Phosphoric Acid
lb.	lb.	lb.	lb.	lb.	lb.
20.00	175	1 59	60.22	1.09	4.22

tion to their weight are the Dorking and Langshan breeds, these lb. of dry matter, containing 120 lb. of produce annually 120 eggs, the nitrogen. It has been often pointed weights of which are in the proportion out that since cows' milk is much of 2.64 and 2.24 to the live weight of richer in nitrogen than the carease of the hen. It thus appears that the best egg-producing breeds will farnish at least five or six times their own weight of eggs in the course of a year, the argument has still greater weight in the case of the hen, as we have just work. His address, as above, will contains three and a-quarter times as The average weight of a hea's egg much nitrogen as that of the cow. The tor of the English version of the Jour

(1) Wherefore, English farmers feed cows largely on horse-beans.

nitrogenous character, the food consisting largely of insects, worms, &c. The advantage of giving hens a good "run" is well known; this is partly due to the active exercise obtained, which is essential for a continuance of the egg-laying condition, but is also in part owing to the supply of insect food which the hens then obtain. Attempts to provide laying hens with The yelk is thus much drier than the white, and is especially characterised by containing a very large amount of fatty matter.

R. WARINGTON.

Correspondence.

Sept. 20th, 1893.

I have been often asked where seed of the black-walnut can be found for

sowing this fall.

Will you have the kindness to announce in the next number of the Journal that Mr. Wm Evans, seedman, 89 McGill street, has made arrange ments for having in stock a supply of the nuts; all those wishing to provide them should give notice some time in advance.

The nuts should be planted, as soon as received, about two inches deep.

Mr. Evans' charge will be a dollar and a-half a bushel; and as the bushel contains about 300 nuts, it will be seen that the cost will not be great.

Believe me to be, Sir, Yours, &c.,

II. G. JOLY DE LOTBINIÈRE.

From the French).

We regret to say that the above did not reach us until the October number was in print

Sept. 26th 1893.

work. His address, as above,

find him at Village des Aulnaies P.O.Q.
I send a copy of this letter (without your name) to A R. Jenner Fust, Edinal of Agriculture. He may add some nsoful information to the above

Time to plant: Spring, by all means, but as early as possible.

Yours very truly

Ed. A. BARNARD.