Conducted by Professor Henry G. Bell.

The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and

Address all questions to Professor Henry G. Bell, In care of The Wilson Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received. As space is limited it is advisable where immediate reply is necessary that a stamped and addressed envelope be enclosed with the

Question-W. E. A .: Have a piece be grown in a rich, friable seedbed of land I do not wish to work this sea- | well supplied with humus in order that | From the original drawson except to summer fallow. Can I there may be a reasonably good supply plow it about June to kill weeds, and of moisture held in the soil. Strawsow it to oats or anything else good berries are not very hard on the soil. for pasture? By not pasturing it too A ton of strawberries is worth say Putting the finishing touches on a Why intelligent farmers will per- the guests. When they have taken ed, after which the happy pair, if in

plow it sooner than June, probably best done by getting the ground ready try products as shipped to market. | in its present state. early in May, and keep it harrowed a year ahead of time. Pick out the To prove that producers do not put There is, however, no reason for letand disked about once in two or three place where you expect to plant the the care they should on their poultry ting it remain there. The careful weeks, so as to root up the young strawberries and cultivate it to a hoed products before offering them for sale, producer should get a higher price for sprouting weeds and to preserve a crop covering the ground before this one may visit any market and he will his good quality products than does dust mulch which will prevent the es- crop is put in with anywhere from 20 find that a large proportion of the his neighbor who cares nothing about Zavitz of Ontario Agricultural Col- is well decayed and free of weed seeds, conserve all the available moisture in There is less reason every year why acre of a mixture composed of 51 lbs. applied before planting the berries except in a finished condition, seem of affairs. By more care in production, of oats, 30 lbs. of Early Amber sugar and re-enforced with from 1,000 to 2,- to forget all their business principles through co-operation or direct comcane and 7 lbs. of common red clover. 000 pounds of commercial fertilizer to when poultry is being disposed of, and munication with better markets, better Professor Zavitz says to sow this early the acre. A good fertilizer for straw- think only of getting rid of them in prices may be received by the producin May. The oats and the Early Am- berries should analyze about 2 to 3 the quickest and easiest way possible. er and more satisfaction given to the ber sugar cane can be drilled in percent. ammonia, 8 to 12 percent. There are comparatively few ex- consumer, but the first step is for the through the regular grain drill and the phosphoric acid and 4 to 6 percent. clusive poultry plants, and experience producer to produce a higher and more clover seed through the grass and potash, if it can be purchased. This in Canada, as a rule, has not been uniform quality, for all producers, clover seed through the grass and potasn, if it can be purchased. This in Canada, as a rule, in Canada, as a r drill. At Guelph this mixture has loam soil. If the ground is extra farmers could make considerably more lose on any bad produce that goes on been found to be ready to carry cat- thin and manure is not available a lit- revenue from poultry if they would to the market. tle late in June. This pasture has tle more ammonia should be used in take even ordinary care in the preparacarried more than one steer to the the fertilizer and more pounds to the tion. acre and in 1911 was successfully used acre applied. to maintain milk cows. If this ma
The ground should be plowed late in the time it takes to prepare pro
good, for on it he has to make good have omitted the references in these fruit is not entitled to the name.

Preparation—its value.

And be my disciples (marber of our cultivated land from the fruit is not entitled to the name. to maintain milk cows. If this material is not pastured down too close it will form a valuable addition of it will form the has already cost for transportation which comes out of the producer; and the producer; and the producer; which comes out of the producer; and the producer it is shipped from the has already cost for transportation which comes out of the producer; and the producer it is shipped from the has already cost for transportation which comes out of the producer; and the producer it is shipped from the has to make good, for on it he has to make good it is should never be a produced to the producer. The producer is the producer in the producer in the producer is shipped from the has already cost for transportation.

The time it takes to prepare produce is shipped from the has to make good, for on it he has to make good in the producer. The producer is shipped from the has to make good in the producer in the producer. The producer is shipped from the has to make good in the producer in the producer. The producer is shipped from the producer is shipped from the producer in the producer is shipped from humus to the soil if turned down late again early in the spring and thorwhat is being sold, it should never be these year guality birds are retailed or "real" becomes here practically the Lord is speaking of his earthly life able us to double our corn crop, or to in the fall. Land under such manageoughly worked down to prepare a fine, sent from the farm until it is in the
these poor quality birds are retailed or "real," becomes here practically as lying in the past. Abide ye—This
and the producer again losses by the
"ideal"—that which alone answers to

line used through a tractor will kill should be guided more by the advice of pound for such, as a rule the edible is first responsible for this and is the ing, which is in the first clause: it is power. To keep his commandments much the same purpose as the lungs of than by what catalogs say. If his animals, so that if the plant is depriv- land is early he may find profitable ed of that vital part it must soon die. plants from the early varieties such If this principle is kept in mind both as Crescent, Barton's Eclipse, Senator

are cut down and not a single spear al- later varieties such as Sample, Wil- feature of which has been the lack of times at fault. Though it is possible ant productiveness, which is their must soon die from lack of power to wine. Just as soon as the planting store was the first handler; there was breathe in air and ability to digest is finished cultivation should begin, no encouragement to be careful, for cultivation is the best method either should be rather deep so as to remel- and bad. In some cases the prowith a crop or by bare fallowing. The low the soil trodden down in planting, ducer broke away from the system thing to do is to outline a systematic All later cultivations should be shal- and shipped direct to the dealer but plan of attack and to keep in mind at low. The land should be cultivated did not prepare his birds as he should. are more or less to blame for the con- over again within his soul. And no-

to the killing of quack grass. How- Report of the Secretary for Agricul- not good and there was absolutely no However are the two most important. they can cut themselves off, as Judas self": compare 2 Pet. 1. 7. ever, if the quack grass is in sod it is ture, Halifax, Nova Scotia, for the grading. This system, or rather However, as it is the producer that we had done. Nature does something, 13. This great verse sweetens railways of the United States doubled best to plow the ground shallow dur-ing the summer, say about three splendid articles on strawberry culture still means, a lower net return to the inches deep. For this it is advisable that go quite a good deal into detail shipper, because of lack of uniformity, to use a special type of plow with a regarding best methods of handling poorer quality and numerous commistation, he intimates thought with another figure when he that he is about to give the highest same. In short, it would appear to gradually sloping mold board. This permits the easily turning of the sod. The next thing to do is, within a week or ten days, go on the land with a disc The people talk of windy March and thoroughly cut up the land. You should disc this every ten days or And how these two are sure to bring two weeks until fall when the quack | The welcome Maytime flowers.

grass will be completely killed out. Don't count the number of times you But I am sure that both these months go over the land. Keep on going, go- Are failures as to weather, ing, going until every spear of the For every year they seem to get grass is killed out. Question-J. G .: - What is the com-

parative food value of oats cut while There's rain in March and April wind; green and cured and fed in the winter The snowstorms get all twisted, as hay, especially as a milk producer? Which makes it clear that Maytime Answer: - The following is the analysis of oats cut in the milk stage: Oats cut in milk stage and fed as hay in winter.

Grain 10.4 3.2 11.4 10.8 59.4 4.8 with established reputations. To sow duce arrived on the market and for the sections are greatly improved but the a very good feed for all classes of After the seeds begin to grow labor of bread that was almost as big as just as she got to the top of the fence at sea level. that oats cut in the green stage make ity is to invite failure.

with alfalfa hay and concentrates in little attention, have been improved, the price. Fifteen years ago farm—

The old hen only ruffled up her feaground; and in her fright, instead of its density diminishing steadily until the form of bran, cottonseed or oil son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. The son's hard work to harvest a large at least in appearance. Chickens of son's hard work to harvest a large at least in appearance. The son's hard work to harvest a large at least in appearance. The son's hard work to harvest a large at least in appearance. The son's hard work to harvest a large at least in appearance. The son's hard work to harvest a large at least in appearance at least in appearance. The son's hard work to harvest a large at least in appearance at least in appearance. The son's hard work to harvest a large at least in appearance at least in appearance at least in appearance. The son's hard work to harvest a large at least in appearance at least in app meal. The chances are that better crop of flowers or vegetables of supresults will be secured and perhaps a erior quality and contemplate how all colors and sizes. There were old try gells for 12 to 20 cents a pound hungry cat had to go without.

The chances are that better crop of flowers or vegetables of supall colors and sizes. There were old hungry cat had to go without.

The old hen called the call.

ries for the market. What is the depositing money in a savings bank, dressed birds much better. They a more uniform product in better con"Please give me a piece of your about to sink to the bottom of the best soil, fertilizer, and variety of All the original deposit or investment lacked that neatness and finish that dition and at less expense; more care bread," said the pigeon, as it flew barrel of water, Farmer Perkins hap-

overly particular as regards the soil folly to try to make good gardens were poorly plucked. The skin was purchase. Some of the middlemen's and scared the little thing out of the dog and the little bird all had a good in which they grow; however, they without the liberal use of fertilizers torn or blotched from scalding, some commissions are being eliminated and yard. will usually do best on soil that is and the hoe or some similar imple- were bled, some had lost their heads, the producer and the consumer are suitable for potates. They should ment.

question, when the answer will be mailed direct.

The top of the plant serves progressive growers in his community portion really costs less. thistles and quack grass can be killed. Dunlap, Warfield, and Beder Wood, ed poultry produced has found its way Usually some form of clean The first two or three cultivations the same price was paid for all, good

May Flowers.

And of the April showers.

Most sadly mixed together.

flowers Come forth quite unassisted.

Use Fertilizers Freely.

It costs time, labor or money to plough or spade up a garden and to get the best return for the labor or expense it is absolutely necessary to purchase seeds of the very best qual-

vested if the oats instead of being The starting point of success is first legs and some that looked as if they bread," grunted the little 1 ig. But and she even pleased, "O little bird, mosphere is below the three-mile sown alone are seeded with Canada to get the soil well pulverized and as might die before the axe came. There brighter prospects to the farmer than the old hen only ruffled up her feath- please help me! I am about to drown." deeply as possible; second, to sow good was not one live bird in the lot that poultry managed on a business basis. ers, took her big loaf and turned off They all worked as hard as they Question—A. S. L.:—I am thinking seeds; third, to use fertilizers liber- one could relish on the table after to one side where she thought she could to get her out, but they could of planting a few acres in strawber- ally. Using fertilizer is similar to seeing it as it was. Nor were the operating, thus putting on the market would not be bothered. best soil, fertilizer, and variety of All the original deposit or investment lacked that heatness and limits that distinct and the best time to begin? A is returned and the liberal use of makes one wish he were carving one is being taken in the production and down from the fence right by her side. pened along and took her out, almost below the zero of Fahrenheit), and Answer: — Strawberries are not terest than any savings bank. It is those that were fairly well fleshed criminating more in the quality they by this time. She flew at the pigeon, The cat, the pigeon, the

PREPARING POULTRY FOR MARKET

It Pays in Dollars and Cents To Add The Finishing Touches To Produce Intended For Table Use.

HOW TO KILL

how I can get rid of thistles and quack ed. Varieties, that under certain cost less per pound to the producer ing. conditions of soil, climate and market, than those that are poorly fleshed, and lit is quite probable that many a repeated in varying forms some Century Bible). Answer:—The killing of thistles and may prove profitable, may under they are much more palatable to the chicken dinner has been changed to seventy times in Paul's letters, and quack grass requires heroic methods. changed conditions prove worthless. consumer. Though he may have to beef because of the way these products constituting the very kernel of his Plenty of muscle, horse flesh or gaso- In selecting varieties the beginner pay from 25 to 50 per cent. more per are exposed for sale and the producer theology. Cleanseth—Not by prun-

The Old System of Marketing Dressed Poultry-Its Defects.

Possibly nine-tenths of all the dress-

Fortunately such producers are be- Thanks to demonstrational work coming fewer every year, but they and to co-operation among the pro-

(By F. G. Elford, Dominion Poultry Husbandman.)

If all the dressed poultry that goes into the market was of an appetizing appearance and of good quality, the producer would get a better price, and the consumer would be willing to pay for something he could enjoy eating. being remov- It is a good object lesson for the producer to see what his produce looks like just before it goes into the con-Warm weather and long hauls,

ter the blade that produce never arrives on the mony he turns and faces the people offer their congratulations and after to strike the market in better shape than it leaves and the bridegroom and the best man all have spoken to the bride and bride-

because their growing season is so turn of any labor done on the average to explain. Possibly present-day her arm on the left arm of her father. friendly confetti and old shoes. Answer:—If you intend to summer short, the soil must be well supplied farm. This lack of "finish" is no-conditions could not help but create where the buildeness and reaches the place Displaying the presents is entirely fallow the land, I would advise you to with available plantfood. This is where so clearly seen as in our poul- a carelessness that has left the trade forward and offer her bit to be well supplied farm. This is where so clearly seen as in our poul- a carelessness that has left the trade forward and offer her bit to be supplied for a better her bit to be supp

He advises sowing 88 lbs. per ten to twelve tons to the acre may be the soil, who never market a bullock producers should put up with this state

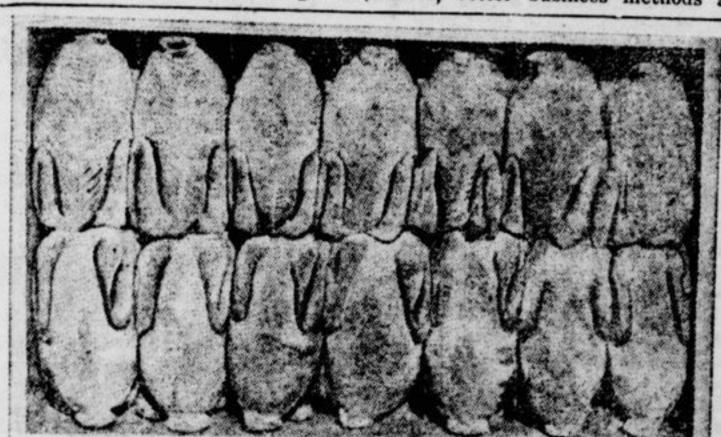
the dealer loses on the poor quality here of John's halit of compressing also the Lord speaks of his object as sider what a tremendous slack might ment as outlined should be in good firm seed bed and to eradicate all the best possible condition. Especially is and the producer again loses by the "ideal"—that which alone answers to all the thoughts the eye of Jesus sees in lose were again lose of feed used by each all the thoughts the eye of Jesus sees in lose were again lose of feed used by each

heaviest loser.

to improve the quality delivered by only reason for existence.

the producer it too often happens that

4. And I in you—Just so Pau! is althe producer, it too often happens that ways setting by his great formula



A CASE OF CRATE PED, WELL PACKED CHICKENS.

Fourteen in this box but they are well fleshed, uniform in size and packed tight.

ity. These can be had from seedsmen tent for the condition in which pro- being adopted. Conditions in some It is seen from the above analysis cheap seeds or seeds of doubtful qual- state in which it has been exposed for work has only started and this imsale, even in some of our larger cities. provement must become more general that was trying her best to eat a loaf and tried to fly over the fence. But pounds of air. This means, of course, livestock. They should not be fed must be expended in cultivating and the writer there was hardly a bird they ought. The demand for good she was. It was far more than she a little bird pecked at the loaf; and As one climbs a mountain or goes up

and some had thir necks dislocated. coming closer together.

department. Initials only will be published with each question and its answer as a means of identification, but full name and address must be given in each letter. Write on one side of paper only. Answers will be

mailed direct if stamped and addressed envelope is enclosed. Address all correspondence for this department to Mrs. Helen Law, 235 Woodbine Ave., Toronto. M. M.:-1. For a home wedding the joins his wife, who is standing near. sumer's hands. If he saw it, he bridal party should enter the room in After the clergyman has given the neck (A) is the place to brings as big a price as it does.

would sometimes wonder how it the following manner: The clergy-blessing he steps to one side and the bride and bridegroom turn and face man leads, followed by the bridegroom the guests, the best man and brides

quality, but it must be borne in mind bridegroom are to stand for the cere- family and friends then advance to close and turning it under in the fall, \$200 and only takes from the soil product before offering it for sale sist in selling their poultry in anywill land be in good shape for next about 85 cents worth of plantfood, yet yields the greatest proportionate re-

coupled with rough handling in tran- and best man. When he reaches the maid taking their places, one on each sit all have a share in depreciating the place before which the bride and side of the newly married pair. The

forward and offers her his left arm. sons do not care to do so, but it has States was consuming more food than Her father steps to one side and the come to be considered quite the thing, it produced. In two years of the war bridesmaid steps to the side of the and it is very pleasant for the guests the United States produced more food bride, while the best man remains be- to see them, when they have been well than it cosumed and exported 76 per side the bridegroom. All five now arranged. It is in perfectly good cent. more. cape of the water from the soil. If to 40 loads of manure to the acre. poultry exposed for sale exhibits a how his are produced or where they en his daughter in marriage, which he acknowledge each present herself. If advances in favor of the tractors Mr. ture I cannot advise you better than to sary in order to free the land of could stand. Good farmers who fol- land of could stand. Good farmers who fol- when the clergyman asks who gives you, you should be gracious enough does by a simple nod of acquiescence the donors are kind enough to think of Bradford speaks of the tremendous

INTERNATIONAL LESSON

Text-John 15, 5.

a washing that is meant.

stuff that is good when it leaves the "in Christ" the complementary "Christ farm is spoiled before it is eaten. in me." It was no figure of speech, It might therefore be noted that all, or pious phrase: for him the Master calls the church the body of Christ, possible proof of his love by laying be the proper thing for farmers to each Christian being a limb or organ down his life for them" (The New supply themselves with tractors as of it. Do nothing-The verb is that Century Bible) No man . . . a soon as possible. have been responsible to a large ex- ducers, better business methods are should render "produce nothing," of Matt. 3. 8, and quite possibly we man-It is safer to render no one

keeping up the figure. 6. This is the parable of John the connect Abraham's great name "the Baptist (Matt. 3, 10). "A metaphori- friend of God" with his doing God's cal description of the fate which command.

thus blessed does ask something that "whose slaves are kings."

The Foolish Hen.

ence, 2 Cor. 12. 9.

bably it means "has been this moment support the horse-power of our farms. glorified," or received. The time of Their feed alone costs \$2,000,000,000, fruit-bearing is seen so vividly by or more than the total operating cost the Master (compare John 4. 35) that of all our railways. A horse averages it is spoken of as already present. of all our ranways. A horse averages Even in actual time, Pentecost was three hours' work each day on a farm, very near. The above interpretation at a cost of about 12 or 13 cents an of the tense is supported by the fact hour. Those who speak of the Verse 1. We have another instance that it is used in John 13. 31, 32, where scarcity of food for men should con-

this true when produce is intended for decreased consumption. Not a pack- in the parable.

Not a pack- in the parable.

Implies "even so must ye love me : each nive acres of feed used by each his love for them must act and react. horse not an acre's produce is turned. airly deeply in the fall.

Question—M. C.:—Kindly tell me

Question—M. C.:—Kindly tell me

Climate and market must be consider
Sibly be the starting point of the high
In the choice of varieties, the soil, climate and market must be consider
Sibly be the starting point of the high
Sibly be the starting point of the ly concentrated phrase "in Christ," sense, the love which I inspire. So chanics. We dislike to eat horse

10. Note how the idea of love as a produce animal food to our liking." power. 'To keep his commandments times at fault. Though it is possible and productiveness, which is their of it already to long for more: to see gasoline will be no more horny-hand-

from the producer to the consumer, was literally living his human life church and never saying anything but, hours a day as he pleases. He can plan of attack and to keep in mind at all low. The land should be cultivated all times the fact that you must keep every leaf cut off.

The same persistent methods apply the best of the control of the poultry market and every leaf cut off.

The same persistent methods apply the best of the control of the poultry market and every leaf cut off.

The same persistent methods apply the best of the control of the poultry market and every link of the chain should be cultivated did not prepare his birds as he should. In many cases the birds were bought by a middleman on a commission link of the chain should be strength by a middleman on a commission is this mysterious property in the branches of the spiritual vine, that the control of the poultry market and every link of the chain should be strength by a middleman on a commission by

5. The vine—The whole vine, in- citing his own love as a model for or kerosene, the farmer may do the

. . one-the word man is not there. 14. Friends-So does James (2. 23)

awaits an unfaithful disciple. He is 15. Here again the case of Abralike a useless branch which is broken ham comes in. "Shall I hide from off and thrown away, and after it Abraham that which I am doing?" 7. Observe how this illuminates marked by Christ's taking them into the performance "flying." prayer, which is not mere petition, but confidence. That he would no longa vital harmony with God. Such er call them 'bondsmen' did not preunion with God in Christ will make it vent them from claiming that title as ocean of air is so fluid and transparimpossible to ask what is out of ac- a glory; thus James 1. 1, Phil. 1. 1, ent that we hardly realize its presence. cord with the Will, except in the spirit etc. Compare the phrase in a fine old Doubtless fishes, in like manner, are of Jesus in Gethsemane. If a man prayer, cui servire regnare est, not conscious of the water in which

he did not mind that. "If you will not inflated rubber bag is at a pressure of give me a piece, I will take it all," he no more than two atmospheres, yet said, as he started toward the big loaf. the balloon has become in effect a

in her mouth and started on a run, the fist. "Please give me a piece of your saw that she would have to do some- erably over an ounce. A dry-goods

feast off the old hen's loaf, and it was Nothing but the Infinite Pity is suf-

HOW GASOLINE MAY

SOLVES PROBLEM OF TILLING THE LAND

Displacement of Horse Labor Would Enable Farmers to Increase

Grain Crops. In an article entitled "Time and Tractors, the Essence of the Food Problem," in the New York Times, Mr. Edward A. Bradford discusses some phases of farming which are problems in Canada as well as in the United States. Mr. Bradford takes the ground that the war has had but a secondary effect upon agriculture, and that if the worldisthreatened with famine it is not on account of the war. His proofs, being derived from the United States alone, are not altogether conclusive, but it is nevertheless as-

waste due to the employment of horses to work the farms of the nation. He says: "It takes more land to support God does not will, it shall be done un- a horse or mule than a man. The to him still, in that something better usual allowance of land to support a man is something over three acres. 8. Is . . . glorified-The tense A horse needs over five average acres. of the Greek is a little difficult. Pro- It takes at least 125,000,000 acres to

The tractor plow is but a symbol. Inferior Produce—Who is to Blame?

3. Clean, as in the Greek, recalls secures his love for us" (The Cam- line engine, and an engine that can Though it has been pointed out that which Jesus has given them through bridge Bible). See especially Paul's haul a plow can operate almost every the producer might improve his proout their discipleship has achieved its

11. My joy—Which was his already
more than this, it can take the back-No one method will work in all soils, and in all locations. If the thistles and in all locations. If the thistles and prepared them for more abundance of the locations and prepared them for more abundance of the locations. If the thistles are product even to the consumer is some. In this land is late he will find it branches from blight and parasites, and prepared them for more abundance of the locations. If the thistles are product even to the consumer is some. In those eleven men: see to market through what is sometimes guilty. Each person who handles the branches from blight and parasites, and prepared them for more abundance and a redeemed world has become a sup- ed than a son of a gun. The farmer 12. This takes up John 13. 34; its other natural advantages. He is not repetition recalls the story of John subject to regulation. Unions do not in his extreme age, carried into the worry him. He can work as many ten years between 1900 and 1910, the "In thus economies, made possible by gasoline

THE SEA WE LIVE IN.

If Sea of Air Were Removed We Would Freeze To Death,

We crawl about on the bottom of a gets withered and dry is consumed as says Jehovah (Gen. 18, 17). Even sea of air. Only very recently have so here the Divine Friendship is we learned to swim in it. We call The gaseous mixture composing this

> But the air is much denser than we hen only ruffled up her feathers, as imagine. A small child blows up a toy usual, and started at the big dog; but balloon. Probably the air inside the

The old hen seized the loaf of bread solid object that will resist a blov. but the dog could outrun her. She A cubic foot of air weighs consid-

hens that were lousy, hens with scaly and in some cases much higher. There "Please give me a piece of your her, she called the dog to help her, one-half of the entire bulk of the at-

"Please give me a piece of your a long time before she was able to ficient for the infinite pathos of hubread," said a big, old dog. The old eat another crumb of bread.

man life.

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