By Agronomist.

This Department Is for the use of our farm readers who want the advice of an expert on any question regarding soil, seed, crops, etc. If your question is of sufficient general interest, it will be answered through this column. If stamped and addressed envelope is enclosed with your letter, a complete answer will be mailed to you. Address Agronomist, care of Wilson Publishing Co., Ltd., 73 Adelaide St. W., Toronto.

Growing Beans and Parsnips.

as they are very tender and one light the weeds. frost may either kill or retard them more than a week or more's later some risk. But, in any case, it will ed in any of the many ways in the relation between this system and Canada \$9.45 per hundred. not be wise to plant until the ground which it can be served. ground.

The Various Varieties

Beans naturally divide themselves cultivation. in the following classes: The dwarf A great deal of the value of the "holds up her milk" or gives a lessenwill not further consider them here. | early spring when such are scarce.

For beans the soil should be rich and mellow. To get them tender at and continuous growth, and this is best assured when they are planted in a warm, rich, porous soil, welldrained and given plenty of waters Well-rotted manure, dug into the trench, is best; and the soil should be made fine with the shovel when digging and finished with the rake.

Beans are planted in two general ways: In hills and in furrows or drills. Cleaner cultivation can be given by the hill system, but more can grown in the same space of garden by the drill plan.

By the hill system you can hoe all around them, but when planted in drills, if you have many weeds, it will require hand-weeding along the rows where the hoe cannot reach.

As some beans, for different reasons, do not germinate, it will pay to out in the drills to four inches apart. to three inches apart. Make the drills as far apart as may be convenient. If to be worked en- are pulled out for bunching can be left been traversed by them. apart between the drills.

When fully up, thin out to three or four to a hill.

with the hoe to get the soil well up does not get boggy.

to the plants. Work them when the

l'arsnip a Valuable Food

As a solid dinner vegetable the

green and yellowpodded, the dwarf parsnip also lies in its good keeping ed quantity. It is not without reabeans shelled out for winter use; the fall and stored in pits, or cool cellars softly to their cows at milking time. next to impossible. tall, or pole, green and yellow podded, in sand, or it can be allowed to reand the tall shell beans for winter. main in the open ground over winter, ·Few persons grow any of the shell which will improve its flavor and beans in small home gardens, and we make a good vegetable for use in the

As they are an all-season vegetable, they can be planted eighteen picking time they should have quick inches apart, and the space between intercropped with radishes, lettuce and other smaller veetablges.

Best results will be obtained by digging into the soil as much well-rotted manure as it will take, using it in the trench in preference to spreading it on top. As is the case with all large-growing root crops, the soil should be made porous and mellow, so that the roots can grow and expand easily.

Parsnip seed is of rather easy germination, on which account it should not be covered more than a half inch with fine soil. A gentle wetting down of the drills will pack the soil and the seeds together sufficiently that compacting with the foot will not be necessary.

Requires Much Water

Parsnips, like all root crops con- easily be got at. taining large quantities of sugar, re-Beans require frequent cultivation, quire a great amount of water, and ject to disease like any other tissue always drawing the soil up around it should be given them regularly; but or organ and such disease is often an

the plants. If the wheel cultivator be sure that the ground they are important symptom of disease else is used it will be well to go over them growing in is well drained so that it where. Verses 25 to 34 relate the episode inarily occur in them after middle life

> Hardening or arterio-sclerosis is a ly an unfeeling breaking of the sad change which occurs naturally in the the pulse pressure.

use to take the Master's time for a sue, which holds together the cells the use of sodium phosphates, calcium fully realized. The best-bred colt feed for pigs at weaning time. The case already beyond earthly skill. composing the arterial wall, is in- chloride, and compound syrup of the will be no better than a scrub if it is milk should be fed in the same condient as they are in early life.

Sometimes during old age the artpipe-stems, and they are apt to snap tion; but do you think it desirable to

of disciples most responsive to him cess which is known as atheroma and physician, or not; but if you were

If calves are weaned they should be fed whole mik until they are one month old, when they should be changed to skim milk. They should be fed skim milk until they are six months old. While they are on milk they should be given some grain and first of all a mother. A cow's ability

alfelfa hay. After taking the calf off the milk, in- amused at a concert or a social. There are those who call the cow a crease the grain gradually to two. The play of children and the recrea- in the corner right through highamount of foodstuffs she should have and alfalfa hay.

turned in a given time into finished their growth is apt to be injured.

ped to cover or otherwise protect the rich and poor alike. Boiled to call her a machine. Machines do ed for some fine beef cows what is is to educate him. them and are sure to attend to it, you with meat it makes a whole meal, and not possess nerves, whereas a cow has reported to be the highest price ever. This difference is so important and of what they do. The lesson is some-

the milk glands and the cow either tions of shipping.

GOOD HEALTH QUESTION BOX

By Andrew F. Currier, M. D. Dr. Currier will answer all signed letters pertaining to Health. / If your question is of general interest it will be answered through these columns; If not it will be answered personally; if stamped, addressed envelope is enclosed. Dr. Currier will not prescribe for individual cases or make diagnoses. Address Dr. Andrew F. Currier, care of Wilson Publishing Co., 73 Adelaide St | which the world makes upon us. West, Toronto.

Blood Pressure.

There can be no successful dairy-

ing which does not rest upon an ap-

preciation of the fact that a cow is

for the nourishment of such is the

the milk pail is so intimate that any

corner stone of the dairy business.

product.

upon it and doctors who keep abreast frequently fatal. of the progress of the times find it

the blood current in the arteries exerts against their wall under the influence of the contractile force of the heart muscle.

It is measured by the height of a column of mercury in a capillary tube. It should be-remembered that the heart is a pump and the arteries When the young plants are two series of elastic tubes proceeding from plant them rather thickly, and thin inches high they should be thinned out a great trunk vessel attached to the heart, and dividing and sub-dividing Early small-growing parsnips which until every portion of the body has

tirely with the hoe, eighteen inches stand at three inches apart, but Any artery can be used to deterapart will do; if to be worked with the if you plant the long winter varieties, mine the blood pressure, if the system wheel cultivator, make them two feet they should be thinned out to six is in good working order, but one of inches apart, as their foliage is very moderate size is more convenient than When wusing the hill system of heavy and will crowd even at that one which is very large or very small planting, drop four to six beans to a distance. The largest varieties had . It is also desirable to choose an hill, making the hills a foot apart. better be thinned out to eight inches. artery near the surface, which can

The arteries of the body are sub

Changes in the structure of the art eries may take place at any time, but there are certain changes which ordand in old age which are characteristic, so that we are accustomed to

creased, making them more or less phosphates, will lead to kidney dis- fed upon a starvation ration. rigid and inelastic instead of resili- ease-particularly to stone in the

eries absorb salts of lime from the disease you refer to can result from blood, and may become brittle like the use of the medicines you menif subjected to unusual strain or take such a quantity of medicines?

this also makes them very susceptible under my care, I should not think it

If rupture should occur in arteries | medicines - _

Blood pressure is an important sub- condition known as apoplexy which to children? ject, insurance companies lay stress is almost always serious and very

necessary to be skillful in determin- ing track of the arteries for when Gradually, however, the necessity of cause, to lose cheerfully and to win they become unusually hard or un- sharing is impressed upon the little without bragging. The child who It means the degree of force which usually soft the condition becomes one brains. By and by the age of games does not play may learn this lesson which is dangerous.

> desirable it is to determine the blood- ball, football, basketball, are en- life. pressure from time to time and find tered into which teach, with a out the condition of the arterial wall. power which no sermon can ever ity for play and sport but farming is this pressure, as I have already stat- operative action. What an example too often those who are engaged in ed, by the height to which a column there is in the incident of the tennis it, laboring ceaselessly for those imof mercury is raised in a capillary player who had an opportunity to win mediate results on which their living tube and another by the registry of an the national championship by a fluke depends, forget the educational value indicator upon a circular dial plate as his opponent made but who, instead, of free play and team sports to chilthe result of pressure upon a spring, intentionally made the same fluke dren, giving them longer and harder but these springs vary in their re- himself on the next ball so as to win- labor than their ages justify. The sisting power and the column of if win he could—by his own skill and result is that these Jacks and Jills,

> the instrument indicates the blood young boy, I think, would be equal to ed demands which life makes upon us contracts and sends out the column and only thus—he will acquire that I mean which are becoming more and of blood into the arteries.

> tained when the pressure of the di- the relations of life or not at all. tion on our farms. Play will teach lated rubber bag, which is a part of the instrument, over the artery at the Act Quickly. Did you ever see play new rural life. elbow which is chosen for the measurement, obliterates the flow of the

blood current within it. The minimum is indicated on the register when the pressure of the rubber bag is released and the current again flows within it as indicated by say that a person is as old as his the return of the pulse at the wrist. The differential between the maximum and the minimum is known as

QUESTIONS AND ANSWERS.

This means that the connective tis- | O. A. L .: - Kindly tell me whether

Answer-I do not think that the Of course I do not know whether you They may also be softened by a pro- are taking it under the advice of a advisable to dose you with so many

MOTHER-WISDOM

Some of the Reasons Why Our Children Ought to Play

By Helen Johnson Keyes

. Have you ever noticed how hard at; that was slow, hesitating, undecided? to bring forth strong and vigorous A good mixture for grain feed is work children seem to be when they Not often, I think, for play is born of offspring and to provide abundantly four parts of corn chop, one part of are playing? They do not act in the thoughts that are winged and which oil meal, and two parts of wheat bran, way men and women do who are being transform themselves instantly into

machine, who figure painstakingly the pounds a day in addition to silage tion of grown-ups are absolutely dif- school sports a good judgment put inferent the one from the other. They to swift execution is what wins. Is to produce her utmost, and who go The heifers should be bred so as to are not entered into from the same it not so in life, also? about their business upon the basis calve when from twenty-four to thirty motives or followed in the same spirit. (3) The Power to Cou.: Conse-Nothing is to be gained by planting crust forms after rains, and at all that, as in the case of other ma- months of age, depending upon the A grown-up seeks a good time for the quences. Probably too often for the the bush beans outdoors too early, times when necessary to keep down chines, production is simply a matter breed and growth of the animal. If sake of recovering from the fatigue moral growth of our children, do we of how much raw material can be bred so as to calve earlier than this, of work and of forgetting worries; a mothers protect them from the rechild is not conscious of any motives, sults of their deeds. Often it is even for his play is instinctive but the necessary to their survival or health planting. Of course, if you are equip- parsnip is welcomed on the tables of It is, of course, unjust to the cow Donald Smith of Red Deer receiv- purpose of nature in making him play that we should. But in play they

can get an earlier crop by taking it is just as much relished when cook- an intricate system of them. And paid for this class of beef in Western fundamental that every mother ought times painful; sometimes joyful to realize it and have it constantly in but it is always plain and unmind. A child educates himself disguised: "You did that, there is warm and the weather somewhat It is the sugar content which makes condition which affects the cow's nerv- Bacon contains about 7 per cent. through his play. A man named fore you get this." Must not the settled, as beans planted in cold or the parsnip so valuable as a food. It ous system reacts at once upon the bone, dressed beef 20, mutton 20 and Groos, who has studied this matter realization of this truth educate soggy soil are likely to rot in the is heavy with sugar, and it is to get milk-producing system. An undue veal 25. That is one reason why very deeply, believes that one rea- young people away from those happyinto it so much of this valuable quality disturbance of normal, tranquil con- bacon is so much desired for ship- son why the period of childhood is so go-lucky, careless deeds, violations of that we give it the very best soil and ditions diverts the blood supply from ment to Europe under present condi- much longer in human beings than it natural and moral laws, which usualis in animals-who attain almost at ly bring with them a trail of ill health, once about as much intelligence as failure and misery? Like produces like, and to get good they ever have—is in order that they (4) Courage. Very young children shell beans, which are matured, and qualities. It may be taken up in the son that Swiss peasants sing or yodel crops without planting good seed is shall have a long educational course whimper over the bumps they get in of play to prepare them for the very play, quarrel over their bad luck in

if we do not give our youngsters op- is reached, however, no more of that portunities to play, we are making cowardly or boastful manner is tolercripples of them, sending them out ated. The youngsters have learned, into manhood and womanhood lame, through playing, to take the bumps blind and deaf as it were, unable to and blows in silence and to abide by march in the ranks of success, unable the laws of the game and the decisions to see life and people as they truly of the umpire. are or to understand the demands

like those of the brain we have the able in after life, which play teaches Did you ever see success come to a

All this shows the necessity of keep- himself the most attractive toys. get hurt, if necessary, for a good comes and then this lesson is repeat- too late to take his place honorably It is therefore easy to see how ed. Finally, those great sports, base- when he plays in the great game of One form of instrument measures attain, the lesson of fair play and co- a difficult and anxious business and mercury is therefore more accurate not on his opponent's misfortune. although they may be very capable Would you not trust that man's fair machines, are a little slow to under-A certain number on the scale of play in any business deal? No very stand the larger and more complicat-

acts. From the infantile game of puss

must meet squarely the consequences

great difficulties of adult human life. games and brag of their successes. We parents must realize, then, that By the time the fourth or fifth grade

They began in the days of their little childhood as soreheads but play What are some of the lessons, valu- has made them honorable sportsmen. grown-up sorehead? I never have. (1) Justice. When tots begin to play The spirit which wins in life is the together each one seeks to grab for spirit of sportemanship-courage to

The country offers every opportun-

pressure as the ventricle of the heart such a sacrifice but through play- all, those moral and social demands. desire to give every man his due and more exacting as community life ad-This is the maximum and is ob- of winning fairly and squarely in all vances to greater and greater perfec-(2) The Power to Decide Wisely and teamwork—the great principle of our

The feed a colt gets the first eighteen months, and especially the first time than at any other stage of their winter, determines to a great extent existence. They should have acthe size of the colt at maturity. The cess to corn, and other grain when size of a horse determines its value they are with their mother, so that very largely. Good breeding gives they will know how to eat and will wonderful possibilities; but it takes not miss the milk. feeding if these possibilities are to be Skim milk or buttermilk is desirable

development by the time it is one year will be impaired. old, hence the importance of a good Usually the pigs are large and start. The colt, should be taught thrifty enough to wean at the age of to eat grain before it is weaned, and six to eight weeks. They should after being weaned should be allowed have access to green forage, such as a liberal ration of alfalfa or clover alfalfa, rape, clover, or sorghum, at hay with other available roughage, all times. The feeding trough such as corn fodder, kafir butts, cane | should always be kept clean. hay, and straw. The colt should be

growing and thrifty condition.

If the colt is fed properly, one growth of the pigs. should never be able to see its ribs. A ration of from six to eight pounds a day should be fed for each 1,000 pounds of live weight. Oats is an excellent feed, but at the present on any well-drained soil; but they seem price is so high it is not practical. A to prefer a sandy or gravelly loam of good substitute is corn 70 per cent., fair fertility. Too rich a soil will bran 20 per cent., and oil meal 5 per favor the growth of too much vine and cent. by weight. Colts should have the beans will not ripen uniformly. access to a pasture or a large lot so The seed is usually planted with a as to have plenty of exercise.

collar should be fitted to the horse, and not the horse to the collar. The collar that is too large should not be used on a horse in the hope that he will grow large enough so it will eventually fit: A collar that fits well in the spring may not fit at all in the fall.

When one is fitting a horse with collar, the animal should be standing in a natural position on level ground, with his head held at the height maintained while at work. The collar, when buckled, should fit snugly to the side of the neck, and its face should follow closely and be in even contact with the surface of the shoulders from the top of the withers to the region of his throat. At the throat there should be enough room for a man's hand to be inserted inside the collar.

The style of horse collars are created mostly by the use of different kinds of materials in their construction. Such materials as heavy duck, ticking, and leather are used either alone or in not so much used.



More pigs are ruined at weaning

tion at all times either sweet or A draft colt makes one half of its sour-otherwise the digestive system

Care should be taken that the pigs fed sufficient grain to keep it in good are not overfed. Overfeeding causes feverish conditions and will stunt the

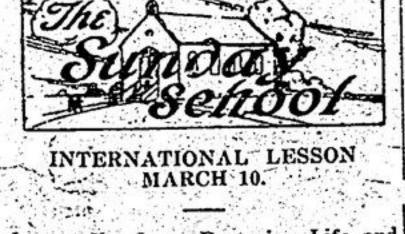
Machinery for Bean-Raising.

Beans may be expected to do well grain drill, but when the crop is to be grown in hills it is best to use a corn planter equipped with a bean plate:

A shovel cultivator is needed for the three or four cultivations the crop requires. For harvesting there are several kinds of machinery, of which a special bean harvester is best, though a mower equipped with a bunching attachment may also be used. The only satisfactory method of threshing bean crops of considerable size is a bean thresher, which may also be used for peas. They are made in various sizes some of which may be operated with two men and a small gas engine. Such a thresher will thresh from about eight to twelve bushels of beans an hour, depending on the amount of

"The blue of Heaven is larger thanthe cloud."-Elizabeth Barrett Brown-

various combinations. All-metal Better than ever. Write for Bulletin collars may also be bought, but are ONTARIO FERTILIZERS, LIMITED WEST TORONTO



Lesson X .- Jesus Restoring Life and Health-Mark 5. 21-23, 35-43. Golden Text, Matt. 8. 17.

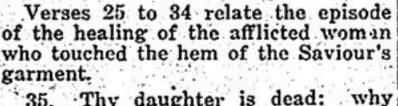
Verse 21.-We do not know where ha landed, probably at Capernaum, which lay in a north-westerly direction from the country of the Gerasenes, about an eight-mile sail. A great multitude was gathered unto him-We read between the lines that his recent mighty works in Capernaum and vicinity had immensely augmented his fame, so that immediately upon his landing the crowd of sufferers surged about him in increasing and wailing-A true picture

22. One of the rulers of the synagogue, Jairus-The synagogue, or local church of the Jews, was found in every town. - Its services were very simple. A "ruler" was one of the chief men having direction of its affairs. In Capernaum was a notable Mark, and Luke. synagogue, built, we infer, by a largesent site of Capernaum there might Those who were mourning quickly for his sick, daughter impelled him mind of the writer that his very name, Jairus, is given. Falleth at his feet -The Oriental attitude of the suppliant.

23. Beseecheth him much-A word implying the most urgent entreaty for the life of his child. The expression "at the point of death" is to be read arise. literally, "has finally," that is, has 42. Straightway the damsel rose come to the last of life and is just up, and walked-The single word on the verge of slipping away. Lay "arise" was enough. For she was thy hands on her-Luke omits this, twelve years old-This is an explanabut Matthew gives it. The laying tion of her walking. They were on of hands in case of healing is men- amazed with a great amazementtioned several times in Mark, also in This is a sout of climax to Jesus'

Verse 24 tells how Jesus' compas- 43. Charged them that no man sionate heart responded to the troubled heart of the appealing father.





35. Thy daughter is dead: why arteries. roublest thou the Teacher any furthnews to the father and is simply the arteries during old age. conclusion of the people that it was no! Jesus not-heeding the word-Literally, "overhearing the word," which was not addressed to him, but to the fath-

36. Fear not, only believe-Jesus paid no attention to the interruption, but did notice the effect of the announcement upon the father, whom he now seeks to comfort.

37. Suffered no man to follow, save pressure. Peter, and James, and John-The trio and nearest his heart.

38. A tumult, and many weeping to rupture or breaking. Oriental grief, which grows more intense at the time of the funeral, when hired mourners rend the air with their ululations.

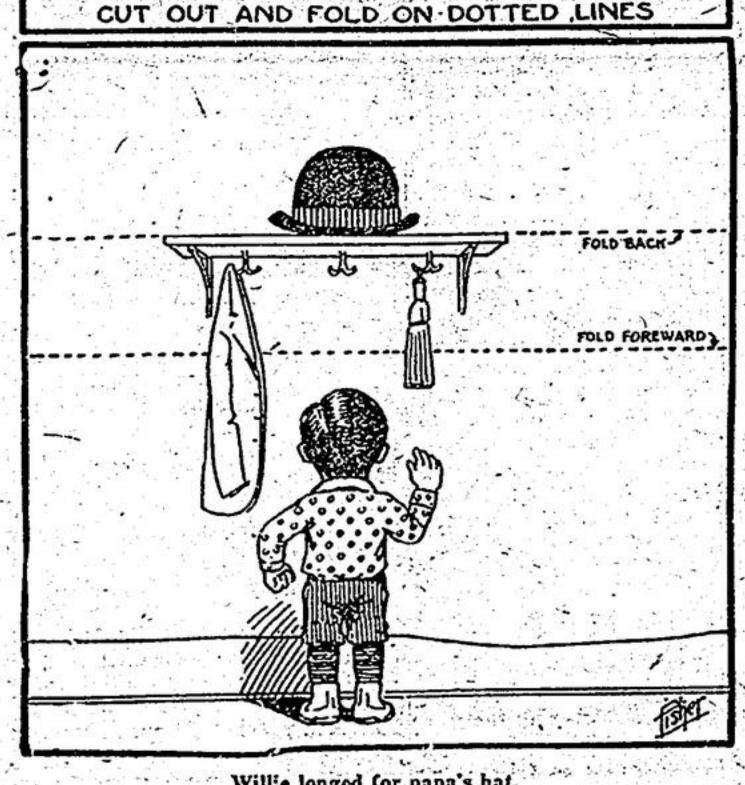
30. The child is not dead, but sleepeth-This is the only account of the raising of the dead given by all of the Synoptic Gospels-Matthew,

40. They laughed him to scornhave been seen a few years ago the turned to derision upon his command ruins of a synagogue-huge marble for silence. Put them all forth-He blocks, sculptured and bearing Jewish would have no curious and unsymemblems. While the Jewish leader pathetic hired mourners at such a might have hesitated to indorse the sacred moment. Taketh the father great Teacher, the possibility of help of the child and her mother and them that were with him-We may well This case is one so clearly fixed in the conjecture the intense and pathetic about the bier of the little girl.

41. Talitha cumi-The Aramaic words in the language spoken by Jesus. This is one of the few places where is given the very language used by Jesus. The phrase means, Damsel.

mighty works by the lakeside.

should know this—For the reason that it would stir up the populace to such a pitch that it would kindle mistaken and premature expectations which would not help his work, but would greatly impede it. Commanded that something should be given her to eat -This shows Jesus' consideration, attention to details. The child's immediate need was not overlooked.



Willie longed for papa's hat, Despite his tender years; But when he put it on-Alas!

It covered up his ears.