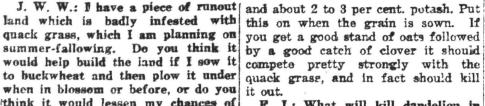
The object of this department is to place at the service of our farm readers the advice of an acknowledged authority on all subjects pertaining to soils and crops. Address all questions to Professor Henry G. Beil, in care of The Wilson Publishing Company, Limited, Toronto, and answers will appear in this column in the order in which they are received. When writing kindly mention this paper. As space is limited it is advisable where immediate reply is necessary that a stamped and addressed envelope be enclosed with the question, when the answer will be mailed direct.

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when in blossom or before, or do you it out. think it would lessen my chances of F. J.: What will kill dandelion in killing the quack grass? [want to lawns? kill this weed and build the land at the same time if possible, with a view large cut out the dandelions with a

hold on the ground.

If you are growing corn or wheat, R. H.: Would like some information where you are seeding to oats, since destroy them. the fertilizer adds absolutely no Answer: We would advise you to weeds and the ground, if it is thor- write the Dominion Department of oughly worked, should be in fair shape Agriculture, Ottawa, for information to grow a good crops of oats. Use regarding insect pests on vegetables, about 200 lbs. to the acre of a fertil- flowers and bushes. They have sevtzer analyzing 2 to 3 per cent. am- eral good bulletins which describe monia, 8 per cent. phosphoric acid, this subject thoroughly.



to planting to eats and seeding with knife. On large areas spraying with clover next spring. I plan to top- an iron sulphate solution will do a dress with manure when I seed to great deal towards killing out this pest. Make a solution of iron sul-Answer: Some have endeavored to phate, dissolve about 2 lbs. in a galkill out quack grass by a smothering lon of water. With this strong solucrop, that is, by sowing buckwheat or tion spray the portions of the lawn rape sufficiently thick to smother the where most dandelions are growing. grass. Others have found summer- This will turn the surface of the grass fallowing very effective. I would not dark, but will kill out the weeds. In advise you to try to mix both methods. a few days the grass will regain its If you are summer-fallowing the strength, but the dandelions will kill ground, rake up the root stalks at out. Much publicity has been giver least once in three or four weeks and to the idea of applying sulphate of burn the pile when dry. Then keep ammonia to lawns to kill out dandsthe ground worked at least once in lions, but there is danger in doing three or four weeks and burn the pile this, since sulphate of ammonia is an the ground worked at least every two acid-producing salt and will, thereweeks, so as to prevent the root stalks fore, tend to make the soil sour. This that yet remain from getting a firm is detrimental to the growth of best lawn grasses.

or root crops, I believe I would use about insect pests on vegetables and the manure there and apply fertilizer flowers, roses especially, and how to



rearing summer chicks is an orchard. Where an orchard is out of the question, the next best place is a cornbecome acquainted with their they will hunt up their own coop. have made. Avoid overcrowding, and regularly clean all filth from the coops.

practically the same as in winter, only several crosses will soon approach there should be less corn and more purebred type. Results secured will green stuff. There must, however, be depend entirely on the sire, however. some corn to balance the wheat and Three things are essential in a good other nitrogenous grains. The chick sire: feeds as sold commercially have as finely ground.

mash may be given in the morning.

will. A chick's crop is very small. this digests quickly when the chick is active. Consequently hunger reif food is available the chick will take a few mouthfuls and scamper off again. After the chicks are about

WOOL The outlook is for continued low prices. Ship your lot now and get spot cash. You will be treated right.

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three months old, the regular scratch food may be given.

Grow Into the Purebreds.

The quickest but the costliest way to get a herd is to go out and buy an field. After the corn is about three entire herd of animals, including a feet high, chick coops may be scat- herd sire. A better plan, however, is tered over the field, and for a week to grow into the purebred businesser so a small run should be placed not go into it. It takes real ability in front of each coop so the chicks to develop a herd from a few good females and a good sire; anybody home and surroundings. After that with money can buy good mature amithey have their freedom, and at night mals on the basis of the records they

Using a purebred sire on common scrub or grade stock will work won-For chicks the diet in summer is dets. The animals resulting from

First, he must have good breeding. added for variety. The mashes are ducers. He should come from a famalso prepared on the same basis, only ily of consistent producers. Pedigree, however, is not everything. The sire bright-colored and fair. The first few weeks the chicks must be a good individual. Often a should have nothing but the finely sire with an excellent pedigree is so cracked grains. After that a little poor an individual that no good breeder would use him. Type is es-Of the latter only enough should be sential if you ever expect to sell any given so that it may be eaten up of the offspring. As far as young sires are concerned, breeding and in-It is well to keep the cracked grain dividuality are all we have to judge yet none of them could suggest a way. ration constantly before the young- from. With a bull four years old, sters so they may help themselves at however, there is another index to his value. His daughters should be good a log in the lake were two big mud A teaspoonful of food will fill it, and producers, at least as good as their dams at the same age. If a sire has these three qualities he is a good one. turns about every hour or two. and If he possesses the first two and it turns out that he does not have good daughters he is no good and should not be used longer. If, on the other hand, his daughters prove to be better than their dams you have the kind of a sire every breeder is looking for; one that builds up the herd.

> "Oh, it's summer, summer weather, And you'd better b'lieve I'm glad. Going to the pond with brother. Tramping all around with dad. Looking in the grass for birds' eggs

Not to touch them-goodness, no! Oh. it's summer, summer weather, And I love the summer so.'



Have you ever noticed how often a is what we are doing to-day. Think farmhouse will be situated on a slight how many of our friends of a quarter hill, while the outhouse will be just of a century ago died of typhoid, and a little lower, while the barn with the how few are the cases nowadays. well close beside it is at the bottom If we but realized the protection of the hill? Just why the well should thrown about us by even the average be so much more convenient to the city or town government with its barn than to the kitchen, is a matter Board of Health, we would be thankbe so much more convenient to the city or town government to the like and work of the great aposts than to the kitchen, is a matter Board of Health, we would be thankbe found in the available comwill be found in the available comwas grandson of Hillel, founder of one for the farm women's clubs to dis-cuss; the thing that interests the to uphold the hands of government, I would recommend also the follow-that are extraordinary influence over sanitarian is that slope from the out- though ever critical that the govern- ing: Bosworth's Studies in the Acts house to the source of the drinking ment may grow better rather than and Epistles (arranged for daily read-

While typhoid germs may never be port. introduced into your well by this sys- It is in the out-of-the-way places

Answer: If the lawn area is not too scrupulously clean.

So we may never know until we are is very much on the job. rudely enlightened, just who will pollute a well. In the days when death ed—usually with the help of the Jews and Jewish proscriptes only. It again, one person could have the distyphoid germs in but one way, and international movement of brothermodern science takes little stock in your health officer proceeds to find race barriers, and to build a temple buck; it prefers to play safe.

came and peered at them.

ed its boughs in the lake and there

there surely must be some way by

make them beautiful.

reached the lake.

the shadow of the big rocks.

which they could color their coats;

Do You Have Water Fit To Drink?

By Harriet Bowen

worse, through our intelligent sup- ing), Patterson Smyth's Life and Let- of Christ. That he was also a man

chance that they will be introduced, brook far off in the country, or the Earlier Epistles of Paul. for it is not only the person who is picturesque well of clear cold water actually sick who is a source of in- is the most likely place in which to greatest and most outstanding figure find it. Large cities, and the smaller of the New Testament is that of Paul. Only a few years ago "Typhoid cities, too, have a regular system of A thorough-going Jew, of a strict Mary" set us all guessing by the inspection and protect their drinking Jewish family, an ardent patriot, a strange tales that were told of her, water, not only that which is piped lover of his people and of their an-To-day we know that there are peo-ple who, having once had the disease which are found within the city limits. harbor the germs in the intestines which are found within the city limits. heart, indominably persevering, and harbor the germs in the intestines Most people don't realize the anxious for a long time thereafter. These people may be perfectly well, but leave in this respect. Every case of typhoid our attention from the first. The first in their tracks a trail of cases due to that occurs in a city is reported to the three lessons of our present series pollution of water into which sewage Board of Health, and contrary to the show him to us as the Jew and ters of all the lands about the Medihas drained or through food handled accepted belief that municipal em- Pharisee, the lessons that follow, as by the "carrier" whose hands are not ployees are chair-warmers, this de- the Christian preacher and teacher, partment of the public weal, at least, traveller and missionary.

and that is not very long ago, some diagnoses the case microscopically, in bition to be an apostle to the Gentiles, people seem to have had a certain order to supplement the finding of the called of God to that great task. From immunity in communities where the doctor in charge, there is a quiet in the narrowest of Jewish circles he water was particularly bad. Then vestigation of the reason. We get stepped forth as the leader of a great ck; it prefers to play safe. out what you have been drinking. If of humanity, in the midst of which Health protection is an interesting the source of contagion is a well or God, by His spirit, would dwell. pay our taxes and let "them" do the that source until it is made safe. But it what Jesus had declared it would rest. The earnest, honest labor of it is the experience of most health many lives is summarized in the medi- officers that water is polluted because are fortunate in having, both in Luke's cal knowledge of to-day; the plodding of the easy-going methods still pre- history in the book of Acts, and in

and proud.

brook that ran into the clear lake troops which held the castle, or citatin devout Jewish homes, a sincere efstill other fishes, the trout, played del, of Jerusalem, and was afterward fort has been made to keep this comlike a white ribbon under the ripples. permitted by him to address the mand. These words are repeated when they saw the lake fishes they, crowd from the castle stairs. To the morning and evening. The law are Long ago all the fishes that lived too, wanted he utiful colors. They in the cool, clear waters of a certain did not know about using flowers, but mountain lake were silvery brown one day, after they had puzzled over verse. Often when the little Indians push-

talked the matter over. They said the fishes got their colors.

Best Shade Tree, and Why.

Forty-seven years ago the writer = But after a while an idea came to bought this farm. There were no a low cut in the hills, allowing a draft of trees to a stranger, he could but them. Sleeping in the sunshine on turtles and twenty little ones. The fishes swam to the edge of the water front yard leveled we began to plan graceful trees and serve admirably as about twenty-six inches in diameter would go into the fields and bring

them some bright flowers so that they could dye their dull-brown coats and The obliging turtles were very glad to have a good excuse for going to land, for they had long wished to see

something of the world; so they left good, I acted upon it. their children fast asleep in the warm little run on the side hill where the granite horse trough into which unsubmine and swam to the bank. Once ashore they moved slowly straight in the rich mellow soil, and

friends and were overjoyed to see the know of. bowers. They colored their dull coats bowers. They colored their dull coats

Along the fence, between the garwith the bright blossoms some yeldens and the paddock by the barns, I been fostered in those spreading low, some green, some with spots of set six cherry trees and they have branches; children and grown-ups orange and blue. A few of the fishes, proved a wise selection, for they have alike have gathered beneath their the kiddles may like it better served it is true, did not wish to color their furnished shade for the paddock, have friendly shade, and the yellow leaves as a summer drink, and it is just as coats; those staged close at home in been a favorite resort for the children, have done duty to the last by furnish- good for them. Cut up some halfwho feasted upon the luscious fruit; ing litter for the poultry houses.

It was on a June day after a storm. must have belonged to a colony of and a sincere desire to do good. We, ed their cances out over the lake and the trout went zigzägging up the Jews which had settled there, and he who have received the inestimable paddled round among the water lilies brook in a company until they reach- held by inheritance the rights and gift of the knowledge of Christ, the fishes would hide under the lily ed the spring where the stream began. privileges of a free citizen of the should seek to know and to underpads and listen to their talk. Some- There they saw, resting in the clear Roman empire. He must have been stand better the people from whose pads and listen to their talk. Some—
There they saw, resting in the clear times the boys and girls pointed to white water of the spring, the end of the sunset colors in the water, or to the shadows of the gay autumn trees. There they saw, resting in the clear familiar with the Greek language from his childhood. In the schools and in the university he must have become acquainted with Greek and Roman empire. He must have been stand better the people from whose homes came both Jesus and Paul.

Application.

There they saw, resting in the clear familiar with the Greek language homes came both Jesus and Paul.

Application.

There may be men who, as we are sometimes told, are beyond church in-Sometimes birds of bright plumage they swam until the bow faded. But went skimming across the surface of when the trout started down the creek osophy and poetry both of the east the church has not had its opportunthe lake, or the petals of lovely wild again they found to their joy and and the west. The university of Tar- ity. Abel the worshipper and Cain their basis wheat, corn and oats, all This means a good pedigree. His dam flowers dropped into the crystal wonder that, instead of being plain in sus rivalled, indeed, the two other the murderer; Moses the man of God finely cracked, with other grains and grand dams should be good pro- water. At those times the quiet brown hue as before, they were of a beauti- great seats of learning of that age, and Pharaoh the oppressor; Elijah fishes, listening under the lily pads, ful bluish tint on the upper part of Athens and Alexandria, and was reck- the prophet and Ahab the idolater: wondered why they, too, could not be bright-colored and fair.

ful bluish tint on the upper part of oned superior to them in love of learning by Strabo, a well-known ancient writer. Tarsus received students mon and Paul the apostle; Wesley One day they gathered in a cool, darker color. To this day they are from all parts of the world, and sent the evangelist and Voltaire the shady spot where a willow tree trail- known as rainbow trout.

if you want the best shade, the clean-never-failing spring coming from est and most interesting and the under a large boulder setting back longest-lived trees, plant the sugar about twenty feet from the highway.

The Sunday School Lesson

JULY 3.

The Early Life of Saul. Acts 21: 39; 22: 3, 28; 2 Tim. 3: 14, 15; Duet. 6: 4-9. Golden Text-Hebrews 3: 7, 8.

ters of St. Paul, Stalker's life of Paul, R. D. Shaw's The Pauline Epistles,

Next to our Lord Himself the

It was Paul who first saw clearly the significance of the gospel message When a case of typhoid is discover- for the whole world, and not for the from typhoid was a common thing, Board of Health laboratory which was he who conceived the noble amease several times. At any rate, escape seems to have been a matter the latter. Water, and to a less detection where the latter was a less detection of the world for of luck rather than immunity, but gree milk, are the chief sources, and his crucified Master, to break down subject. We are inclined to take so spring, the officer gets busy and sees Christianity might have become the much for granted in civilized life; we that no one else drinks water from religion of a Jewish sect; Paul made

Jews the future glory of the Kingdom Testament. Now, all day long in the singing mob by the captain of the Roman In the time of Christ and ever since,

> studies in Jerusalem under the great men were children once. in Greek and Hebrew.

a windbreak.

had been a numseryman, said: "Son, grounds is a beautiful cold, clear, We (my father and I) went to the from the road. Here was placed a fence, leaving the spring accessible

about twelve inches in diameter.

Connecting Links—For the Sunday-| Acts 22: 3. According to the perfect had an extraordinary influence over the minds of the people in the time of tolerant and liberal views appears from the story told of him in Acts Ramsay's St. Paul the Traveller and 5: 34-40. Under his teaching Paul tem of drainage, there is always a that typhoid still lurks. The babbling Ramsay's St. Paul the Traveller and studied the books which now form our Roman Citizen, and Lake's The Old Testament, and in particular the ancient laws, which the Jewish docof their own time in what has come to be known as the Mishua, the centrai and oldest part of the Talmud From this school of Gamaliel Paul

> preme council of the Jews, the San-hedrin. 22: 28. Free born. Paul's father must, therefore, have also been a Roman citizen. The Romans were masterranean Sea, and of large parts of Europe and western Asia and northern Africa. The privileges enjoyed by those who had the rights of citizenship were very great, and Paul found afterward in his travels, when in difficult and dangerous places, that he could rely upon protection from Roman officers and magistrates. His Greek learning gave him approach to the people of many lands, and his Roman citizenship gave him protection in his great missionary work.

(or Saul as he was then called) was

taken to become an officer of the su-

2 Timothy 3: 14-15. From a child. It was near the end of Paul's life, and while in a Roman prison that he wrotethis letter to his younger and dearly beloved friend Timothy. Timothy. like Paul, had been born and brought up in Asia Minor. His home was in Lystra (Acts 16: 1), his mother was a Jewess, his father a Greek. His childhood, no doubt, had been like that of Paul, and by a good mother he had been carefully taught in the holy scriptures. The Old Testament stories, poetry, and prophecy were famconscientious work of many more valent in the less protected sections. several of the Epistles, definite statecontinue in those things which he had carries that knowledge into the daily So if the country districts value the ments about Paul's earlier life. Here thus learned, and which were able to life of the community. But of all the health and lives of farm dwellers, the Luke tells us (chaps. 21 and 22) of make wise unto salvation, not in wonders of modern sanitation perhaps wells and springs should be kept free none is so striking and far-reaching as the romance of typhoid, and its drain into them through the soil or eradication from the earth; for that from the surface.

Paul's return to Jerusaiem after his themselves, but through the faith of third great missionary journey, and of the not which was stirred up against him by bigoted and narrow-minded Jews, who hated him for his do not need to doubt the genuine and an arrow-minded Jews, who hated him for his do not need to doubt the genuine and arrow-minded Jews, who hated him for his do not need to doubt the genuine and arrow-minded Jews, who hated him for his do not need to doubt the genuine and arrow-minded Jews, who hated him for his do not need to doubt the genuine and the soil of the riot which was stirred up against him by bigoted and narrow-minded Jews, who hated him for his do not need to doubt the genuine and wonders of modern sanitation perhaps wells and springs should be kept free Paul's return to Jerusalem after his themselves, but through the faith of preaching a gospel of salvation to sincere piety of those simple Jewish that were sleeping in the sunshine. other nations, and for declaring that homes, which was fed upon the sub-As for the fishes, they were pleased the Gentiles would share with the lime and pure teachings of the Old

rown as the Indian children who the matter for a long time, they found the chief city of the province of fact there has been developed in many Tarsus, the city of his birth, was much that is good, and as a matter of Cilicia, in Asia Minor. Paul's family hearts and homes a real faith in God,

teachers abroad to many lands. From mocker: Chalmers the savior and And that is the way, so it is said, Tarsus Paul went to continue his Napoleon the destroyer—all these Jewish scholar, Gamalief, and so be- cradles there slumbered the energy came an accomplished scholar both which afterwards went forth for blasting or for blessing the world.

buildings, so a two-acre field was se- of air through. Here I set a row of say with us: "You could not have lected for the home grounds. As soon twenty-five Lombardy poplars, fifteen made a better selection"; for he would as the buildings were finished and the feet apart. They are pleasing and see twenty-five giants averaging sound and thrifty, apparently good My father, who in his younger days At the extreme southern end of the for another generation.

Sunflowers As a Silage Crop.

Much interest is being taken both maple." Believing the advice was Here was a slight indentation of the the value of sunflowers as a slige crop, particularly in districts where corn is not a reliable crop. The claim is made that sunflowers are a hardier Once ashore they moved slowly along, enjoying the new sights and sounds as they went. Now and then they stopped to rest in a convenient puddle of water. They had dinner in and cut to about twelve feet in height. We properly pruned the roots and their cousins, the land turtles, and them are their cousins, the land turtles, and carefully set them in holes fifty feet spring and trough, and a little south of this spring. I set a weeping willow. The Insofar as the claims put forth for tree must have been suited with its new home, for it settled down to business at once and to'day its shade covered the spring and trough, and a little south of this spring. I set a weeping willow. The Insofar as the claims put forth for tree must have been suited with its new home, for it settled down to business at once and to'day its shade covered the spring and trough, and a little south of this spring. I set a weeping willow. The tree must have been suited with its new home, for it settled down to business at once and to'day its shade covered the spring and trough, and a little south of this spring. I set a weeping willow. The tree must have been suited with its new home, for it settled down to business at once and to'day its shade covered the practically in an introductory stage. It is interesting to note, however, that crop than corn, withstanding both Close by, and a little south of this drouth and frost to a greater degree spring and trough, and autoists find It is interesting to note, however, that here an ideal spot for rest and rean analysis of sunflower silage fed Then they found the fields with the On the left of the driveway from bright-colored flowers dancing in the the road to the barn, which was south "slips" that have been taken from station indicated that it compared bright-colored nowers cancing in the the road to the barn, which was south breeze. They picked the flowers, piled of the house (which faced east), we them on each other's back and set out set a row of cut-leaf or weeping birch for their mountain lake. Sometimes the most popular of the flowers fell off and the turtles had the weeping trees, clean, slender, to pile them on again. But they kept graceful and a rapid grower. Its the age of twenty-five years we found is not any great difference, although on their way perseveringly until they graceful drooping branches, silvery- the age of twenty-five years we found is not any great difference, although white bark and delicate foliage make every tree alive, well-formed (due to corn is to be preferred where it can The fishes swam out to meet their it the most attractive single tree I judicious pruning) and averaging be plentifully and easily grown. Where this is not the case, sunflowers

When the turtles saw how hearts but heart of all have attracted the birds and taken them away from the garcontented. Then they get more flow ers and painted red and yellow mantages on each other's shell and gave to the baby turtles.

When the turtles saw how hearts but heart of all have attracted the birds and taken them away from the garcontented. Then they get more flow ers and painted red and yellow mantages to the could get ings on each other's shell and gave to the baby turtles.

When the turtles saw how hearts but heart of all have attracted the birds was wanted for the boys "over there" must be boiling—and add sugar to these giants were inducted into the service and furnished 112 pounds of fine pure sweets.

On the west side of the paddock lies And to-day, were I to show this row off and served as required. dozen sticks of the fruit into cubes,

"He Shall Have the Rivers to

The story is told th Tilley, who later becan later of Canada, and Governor of New Bru ed to read this 72nd F ing at his hotel in course of his daily going out to attend a Confederation Confer he was a member. many fruitless attem of the delegates to agr for the proposed con Mr. Tilley read the eig Psalm the though struck him- here is name for our countr that reaches from s from the rivers to t earth." The story h occurred to him, to h the conference, the of the name Dominion acknowledged by all Fathers of Confeder mame of our country decided upon. Cancida celebrates

fifty-fourth anniversa federation, as a domiprovinces and territo together have seen velopment was hard and again there have ! the country has advanprosperity. For long British institutions th had an opportunity to From a material sta

their conhecting piver of the canth—the pol the name of our gla mame. Our duty, as try in which God shall to the ends of the en the about it is neces individual citizen as a of the great common Christian Citizenshir in the individual IN and RELIGIOUS PR measure such qualifier

INTELLIGENCE

necessary where there

equality as there is in

no main need despair highest honors. We eystem of education b mor specially adapted higher forms of kr Christian citizenship Intelligence of which to be gained by experi M, as in many lands, p or no interest in the se rulers and but little acspoisal ethics, to deman gence would be unwis be unmecessary. But ou different. Every citize try may, without the calty, gain such an an edge as will make him agent in every matter the commonwealth. Move in this land that wirtue, but we do belle edge and intelligence right of every class ever they are general the greatest amount happiness, the firmer and the most nighteous

It is admitted that t a time when knowled generally diffused than At the same time thes versant with the literar day declare that there period when there was for the more solid : production of genius now. Were there a der publications at all prop citizen of the matte be little cause of regr masses of our popula knowledge but what c second-hand. In such a country books are so cheap and of information are so free, and where there

inducements to rise to positions in society, it ainly men to be satisfied mothings of the world. call another master a more common subjects attention, and he who gence so poorly as to efforts to obtain it or s streets gathering up t commonplace conversa worthy to exercise the citizenship or obtain within the gifts of his Christian citizenship s

clude religious principle