



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, Toorder 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, when the answer will be mailed direct.

Answer:-I would advise you to

Sub-soiling may lower the stand of

water to some extent, but the advan-

tage would be only temporary. For

permanent improvement of the soil.

drain as soon as you can afford it.

strongly advise the addition of tile

rather look upon the use of tile drain

as a profitable investment which will

lead to greater returns from your field

Question-Reader : - I have five

Question-Subscriber:-What is the outlet. Would like your opinion on it value of orchard grass for hay? When anyway. and how should it be sown? Does it do better on sandy soil than oats? open the surface drains rather than to When and how should it be sown? attempt to sub-soil this piece of land.

Answer:-Orchard grass is a very valuable hay grass if cut at the right time. If it is allowed to come into blossom fully, it tends to become hard and woody, and of course, loses in feeding value. Orchard grass can be sown either for hay or for pasture. In either case from 28 to 30 lbs. good seed per acre gives good re- than as an immediate expense. the spring and seed the grass seed acres of very heavy wheat, which is with a nurse crop such as wheat or barley at the rate indicated sowing I wish to put this ground into alfalfa this fall. I was advised to sow the barley per acre. Orchard grass thrives on a variety of soils, but it for reasons unnamed we did not do so. will not do well on undrained soil. It Can I plow this ground after wheat is removed and get the alfalfa in so as places, such as in orchards. order to assist in getting a good stand, you would do well to give the ground a thoroughly dressing of manure or add 200 or 250 lbs. of fertilizer to the to cut your wheat, as you have plan- sheep business a paying one. ned. Fall plow the field fairly deeply

Question-H.F.:-I wish to know and top-dress with about a ton of if I could put my second cutting of ground limestone per acre. If the clover into my silo. Would it make a soil will not wash or puddle, let it better grade of feed than it would to stand till spring. As soon as the cut it for hay? If it is a good plan soil can be worked add four or five to put it into the sile, please give me loads of manure per acre, and thorsome instructions as to how I should oughly disk the field until it is smooth

second cutting. My personal experiby the stock. In my opinion, a bet- analyzing 2 to 3% ammonia, and 10 ter grade of feed from this material can be obtained by making it into hay. This available plantfood will give your young alfalfa plants a quick and vig-

Question-L.C.K .: - We have a piece orous start, and will in nearly of land which is pretty wet, but can- cases, insure a good stand. Cut the not afford to tile it. Would you think barley as soon as it is ripe and give it would do it any good to sub-soil it? the young alfalfa crop a chance to Would it drain any better? It is sur- make a strong growth during the rest face-drained but has not got a good of the summer.

quite long enough to leave meadows Two fields of 4 acres each were tak- following spring this land can be however, there can be no doubt but hours as from 7 o'clock in the morndown, for best results and greatest en; the first field was ploughed after broken very well. profits. They should then be broken harvest, was cultivated occasionally up and cultivated for other crops. | during the summer and autumn and

Deep ploughing is not necessary nor ploughed in the autumn; the other need the furrows be set up with a field of 4 acres was left in sod and narrow plough. Rapid work at this also ploughed in the autumn. The time of year is essential. A two-fur- oats from the summer-cultivated row plough, with three horses, will field gave a yield of 15 bushels more turn over a large piece of land in a per acre than the field ploughed in day. At the close of each day the the autumn. This difference of 60 area ploughed that day should be bushels on the four-acre field at 50 rolled. This breaks the lumps, presses cents a bushel shows a total gain of down the furrows, re-establishes con- \$30.00. Counting the cost of sumnection between the surface soil and mer cultivating at \$4.00 per acre, a the subsoil, bringing up the moisture total cost of \$16.00 for the 4 acres, an from the latter to aid in rotting the increase in net profit of \$14.00 or

After rolling, discing and harrowing soil on the cultivated field being in a should not be delayed. With such much finer condition and almost free cultivation one retains a surface from weeds, the difference in the promulch, opens, aerates and fines the fits from the two fields, if worked undertake the care of the neglected ideal king of the future.

In addition to the greater yield ob- wings of all queens, to prevent the tained, it should be remembered that swarms from leaving, if they issue.

combine the two characters in the offspring, is like trying to produce milk custard by grafting milkweed on egg-

this continent, come reports of dairy herds being reduced. When other the spinels not not specified and loveliest little figure that you can when she opened her eyes once more not go to a great expense—an old the spinels not go to a great expense—an old the spinels not go to a great expense—an old the spinels not go to a great expense—an old the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to a great expense and the spinels not go to

good quality. A neat wrapper more straw and buying shavings.

poisonous weeds in the cattle pasture toilet. Success in handling dairy this fall. is a chore that fits in nicely after a products is due largely to maintaining Rape is an excellent feed for sheep, if care is not exercised at the first quite ceased.

GUELPH.

THE

Young Man----If you can't go to War Go to College

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G. C. CREELMAN, B.S.A., LL.D.

were moved to the next pasture.

The Dog Menace.

By I. J. Mathews

It has been quite a long time since major businesses of the farm, particto have it get a start for fall? I will farmers have taken any great in- ular attention must be paid to the pasvery much appreciate any advice as to terest in sheep, and for this reason ture upon which they graze, since the proper handling of this problem. the oncoming generation knows very there seem to be a number of internal Answer :- In order to get a good little about the particular points of and external parasites that prey upon stand of alfalfa, I would advise you care that are necessary to make the the woolly creatures. After sheep have pastured upon one piece of land two seasons it is high time that they

Desirable as Scavengers.

As scavengers, sheep are certainly Another point that often comes up good and for this reason alone a dozen regarding sheep is that of shelter duror fifteen head of sheep might well be ing the winter. When it is taken into carried on a farm of ordinary size- consideration that when winter draws say one that contains a hundred and on the sheep have all the way from twenty acres. Cattle in the pasture two to five inches of wool covering and mellow. When a good seedbed refuse to eat the weeds along the their backs and when we remember has been obtained, sow from 20 to 25 fences and here is a place where sheep how warm woolen clothing is, we are come in handy, since they seem to rel- in a position to know at once that the lbs. of alfalfa seed per acre at the same time that you drill in about a ish the weeds almost as much as the sheep do not require a very warm shelgrass. Many farmers have found to ter. The most successful sheep men bushel of barley or wheat per acre. In order to insure a good stand, I their everlasting pleasure that a few with whom I have acquaintance do not would advise you at this time to drill sheep turned into a corn field that is give the sheep close shelter at any weedy will soon rid the field of the time of the year, except the ewes, for also 200 to 300 lbs, of fertilizer weeds without doing any particular a few days just at lambing time. damage to the corn. Of course, if the corn is about ripe, after the sheep have eaten up the ragweeds and other foreign plants in the corn field, they may thing to the loss of sheep and wheth- hole through the cork and place a the tops. tackle some of the ears of corn, but er or not there happens to be a law to they will not do this until after they that effect I should feel perfectly free have exhausted the supply of weeds. to shoot any dog that was nosing To give an idea of the value of bees

In cleaning up old brush rows or about the sheep yards. Until secure in agriculture, it is stated by a Gerpastures that are intended for break- protection from dogs can be legislated man writer that an ordinary colony ing, sheep do excellent work since through, sheep men should take pre- during Summer contains an average Summer Cultivation of Old Meadows. the land is thereby put into much that the sprouts are killed out dur-Two years, on the average farm, is cleaner condition for subsequent crops. ing the first season of pasturage. The stay nights. Under present conditions, minute; therefore, taking the working

INTERNATIONAL LESSON

SEPTEMBER 2.

Rotate the Pastures. Where sheep are kept as one of the limitations of his enterprise.

000,000 for the hive in one day. promise that Jehovah will set a shep- age 100 fine days when bees are able say that it pays to advertise. himself will shepherd the sheep. verse 24 indicates, Jehovah will conern through a representative. numeral "one" is used to suggest the reunion of north and south under \$3.50 per acre was obtained. The Lesson X. The Shepherd of Captive group of individuals commissioned to the feet.). Servant—Any individual, or group of individuals commissioned to the feet.). The Fairy of the Fountain and the here?" she asked as she shock the of thinking had repeatedly betrayed carry out the divine purpose may be Little Boy of the Fountain are not the water from her finger called Jehovah's servant. In this same. The Little Boy of the Foun- water from her finger. Verses 11-16. Jehovah himself will to the prophets and, as here, to the

tion of the summer sun this work is most effective. With the present scarcity of labor, this is the cheapest and most practicable method of weed destruction and soil preparation for spring pleughed only produced 0 to the countries to which they were are restrained from hurting one and prosperity. Covenant of peace and prosperity. Covenant of peace stages in Jehovah's work for his peo-ple: (1) he will seek them out; not one permanent peace. Evil beasts—The last source of trouble will be removed. The will deliver them destruction and soil preparation for spring pleughed only produced 0 to the found of the countries to which they were are restrained from hurting one and that we will stage in Jehovah's work for his peo-ple: (1) he will seek them out; not one permanent peace. Evil beasts—The last source of trouble will be overlooked (verse 11); (2) have will deliver them destruction and soil preparation for spring pleughed only produced 0 to the found of the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which they were are restrained from hurting one and the countries to which t

regent to administer the government perity.

the statement in verse 13 that Jehovah tinue to be supreme; but he will govone ruler (compare 37. 24; Hos. 1. 11;

destruction and soil preparation for grain or even for hoed crops.

After the god is decayed a rigid were are restrained from hurting one and soil preparation for spring ploughed only produced 9 tons, a difference of 3,733 pounds. The bring them back to their old home gone the sheep will be safe even in or where she really came from, Freda outside of fairyland," she said, "and they are scarce enough there."

Indicate the countries to which they were are restrained from hurting one and soil preparation for such spring ploughed only produced 9 tons, a difference of 3,733 pounds. The bring them back to their old home gone the sheep will be safe even in or where she really came from, Freda the impose of the never knew. spring-tooth cultivator with wide per ton, a gain of \$16.03 per acre was shown in favor of the after-harwas shown in fav points should be kept going at intervals until author. Then the land
should be thoroughly ploughed, as
deep as the humus or plant food in the
who have grown fat through taking
on the Dominion

The the land
was shown in favor of the after-harwill give first care to the most needy.
The destruction of the wild beasts Hosea
who have grown fat through taking
over the columns of the paper one
destruction of the wild beasts Hosea
who have grown fat through taking
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destruction of the wild beasts Hosea
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who have grown fat through taking
over the columns of the paper one
destruction of the wild beasts Hosea
looks for a convenant decreed by
wondering what it was that made the
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destruction of the wild beasts Hosea
was sitting one morning by the foundestruction of the paper one
was sitting one morning by
was sitting o destroy. Justice-Better, judgment, from troubling the people. Isa. 11. 6 a queer way. Of course grandmother claimed Freda, clasping her hands. mer cultivation of sod land with fall If producing extracted honey, raise ture, he will feed them on destructive indements.

Instead of feeding them on from pasture, he will feed them on destructive complished through a transformation would stop the wondering, which in it.

Instead of feeding them on destructive complished through a transformation would stop the wondering, which in it.

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Instead of feeding them on destructive complished through a transformation would stop the wondering, which in it.

a rule it is pastured off, but it is also for just a moment."

men are going out of a staple line gains are due more to intelligent buyis usually a good time for wise men gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding and handling gains are due more to intelligent buying toan to feeding gains are due more to intelligent buying to gain and to gain an ing than to feeding and handling.

The roots are exhausted. A small flock of sheep is an excellent scaver, as a rule it is pastured off and the little creature said at once. "You on the finger of the Little Boy of the onable amount. Group different Shavings are cheaper than straw enger on almost any farm, and they proves valuable in keeping the lambs were wondering what made the water Fountain. The bird trilled forth a classes of clippings under different Insure fancy prices for butter by for bedding, and just as convenient to make profitable use of waste land, in condition after being weaned, and bubble up in such a funny way. It sweet note or two and then disappear-headings, having one index for each a clean, attractive package of use. This does not justify burning provided that dogs and internal para- in toning up the breeding stock.

There are a few presentions

cow is lost through poisoning, when it

Almost any pure-bred bull with make rapid gains on it. It is a crop the rape is perfectly dry. After a at last she found her voice and asked she must have been asleep and dream-stains from clothing, linen, and the

The profitable gains on a tunch of the sheep. A little of it will go a long and loveliest little figure that you can be a loveli

A thermometer for the dairy is just

The lambs should have a bit more ever, which must be observed in order me, just notice how still the water is where the goldfish were at play.

The lambs should have a bit more ever, which must be observed in order me, just notice how still the water is where the goldfish were at play.

The lambs should have a bit more ever, which must be observed in order me, just notice how still the water is where the goldfish were at play.

The lambs should have a bit more ever, which must be observed in order me, just notice how still the water is where the goldfish were at play. Cutting dock, mullein, thistles and as essential as a toothbrush for the grain now if they are to be marketed to avoid loss. It is a feed which now, while I am talking to you!" And So Freda will tell you that now she and suggestions relative to canning,



separtment initials only will be published with each question and 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. Woodbine Ave. Toronto.

five-months-old baby crying so much should be long enough to reach al- fore another six months had passed. at nights may be:-1. He is not awak- most to the bottom of the bottle, and During the next five years Albert ened every three hours for food if the straw does not fit the cork tight- Farnam was again and again tempted throughout the day. 2. The room is ly you should put sealing-wax round into unwarranted extravagances. He too warm. 3. He is too warmly clad, it to keep out all air. You should did not take it much to heart, for he or the clothes may be wrinkled. 4. He now take a glass jam jar and heat it had no one to provide for except himsleeps in a lighted room. 5. He has over a lamp or candle. Stand the self, and found it comparatively easy been accustomed to being picked up bottle of water on two or three sheets to make up his deficits by compensatevery time he cries. 6. He may be con- of damp blotting paper laid on a plate ing economies. A little thoughtful stipated. 7. His ear may ache or his or dish, place the jar over the bottle, introspection would have convinced throat may be sore. 8. He may have and press hard to prevent air getting him that his ideas of money were behad too much excitement just before underneath. Now, as soon as the air ing unconsciously influenced by the going to bed. 2. It is never safe to in the jar begins to cool, the water in large sums that passed through his use old rubbers saved from the year the bottle will rise through the straw hands daily, but Albert was "easybefore on a new lot of preserves. To and form a pretty little fountain. The minded," and not much given to protest rubbers for preserve jars, pull great thing to remember is to press bing motives or states of mind to the them out to see whether they are of the jar down ever so tightly. If air bottom. sufficient elasticity to return to shape can get away from under the jar you When young Farnam was twentyand not break. All parts should be will not have your fountain. 2. The five, he was elected cashier, with an subjected to the strain. Expense coats of tailored suits will probably increase of salary. The year before should not be spared in buying rub- be longer during the coming winter he had married, and his promotion bers. 3. To cure a child of sucking than they have for some time. 3. seemed to warrant him in renting a his thumb, swab the tip end of the Grass stains can be removed with more expensive house and in buying thumb with tincture of aloes or with ether. Most medicine stains can be furniture accordingly. He had to go a saturated solution of quinine. 4. dissolved by alcohol. 4. Keep only a into debt for this, and some of the old Lemon is a splendid thing to keep on tea or coffee service with a pair of bills were yet unpaid, but that did not your sink to rub on your hands after candlesticks on the sideboard. Lack- trouble him much. He was earning you are through with the dishes. It ing the service or a handsome tray, more now, he told himself, and he attakes away the stains, freshens your have a good-looking receptacle for tached no importance whatever to the hands and makes them sweet and fruit. Keep all small silver neces- fact that his eye rested carelessly clean. 5. Hemstitching can be very sary to everyday use out of sight. The upon a heap of bank notes as he inneatly done on the sewing machine aim is to keep all dignified and free dulged in this comforting reflection. in this way: Draw the number of from a cluttered-up mixture. For One snowy December afternoon,

threads. Lengthen the stitch on the bit of cross stitch or a round center- ing a false entry in one of the books. machine and stitch on the very edge of piece of oyster-white linen with a That may seem a strange way of exthe hem. Pull the bastings out and heavy filet insertion and edge. pull the edge of the hem to the bot- E.F.:-A canning outfit may be tom of the drawn threads. Hem- made in five minutes. All you need: later. For weeks he had been in sore stitching done this way can scarcely A wash boiler, a false bottom for it, straits. His creditors were growing be distinguished from that done by made of laths or sticks, or of corrugat- clamorous, his wife was ill, and the hand. 6. A little baking soda sprin- ed tin with holes punched in it; a last quarter's rent was unpaid. More kled over fruit when stewing will pre- square of cheesecloth to hold fruits or than once he had permitted himself to vent the juice boiling over. It will vegetables when dipping into hot wa- draw a contrast between the affluence also reduce the quantity of sugar re- ter; a kettle. Principles of home round him and his own slender purse; quired. 7. Apply salts of lemon to canning fruits and vegetables: Wash but to this day he solemnly avers that the ink spots on the pink cotton dress, and cleanse the food; blanch by plac- he had never consciously entertained

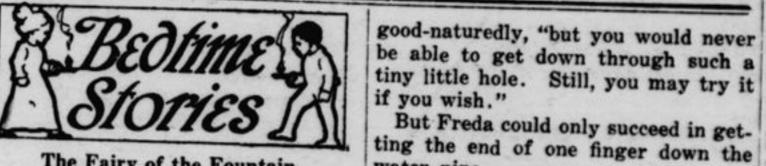
water; pack food in hot jars, add boil- himself that afternoon with the book Lulu:—1. To make a fountain that ing syrup or boiling water; place open before him and the dipped pen will delight the convalescent child you rubbers and tops in position half air- already poised over the page. should get a small glass bottle and tight; submerge jars in boiling water Albert was so distressed and fright-

Value of Bees on Farms.

to fly, consequently 200,000,000 blossoms may be fertilized by the bees of one colony. When only one-tenth of these blossoms are properly fertilized by bees, it leaves the enormous num-

that it will pay to take on a few sheep, ing to 5 in the afternoon, 48,000 flights to waste and stick to the dishes. but as with all other ventures, he who would be made. During each flight makes the venture should know the every bee visits at least 50 blossoms. through she cackles not, but simply self, it must be because he did not

walks away. And so we scorn the know himself thoroughly, and he dein his name. One shepherd—The is reckoned that there are on an aver- prize. This is only another way to at the root of the trouble. It silent duck-but the helpful hen we termined to spare no pains in getting



sense the title is applied to the nation, tain is a small image who sits by the

of the nature of the beasts. Make self was such fun! Suddenly a wild top of the basin if, as soon as you dainty fabrics. At this time there is

is I who make it do that, with my little ed. And almost immediately the wa- class. For instance, have one index

good-naturedly, "but you would never be able to get down through such a

Crossing a heavy milk producer of one breed and a high butterfat producer of another in an attempt to does not infer that the best bull is few acres of this succulent feed. As the sheep have free access.

Which is easily grown, and where should be grass from ciotning, linen, and the pasture near the rape field to which the sheep have free access.

"I wish I could," said the fairy fully wet.

THE LURE OF THE IMAGINATION

The Farnams were not by any neans the poorest family in Hinsdale but all through his boyhood and youth Albert had known what it was to need money. When he accepted the position of teller in the village bank, the salary, which was comparatively small seemed to Albert a princely income and he outlived it the first six months None of his indulgences were vicious Mrs. J.L.T .: -1. The cause of your straw through the hole. The straw however, and he retrieved himself be-

threads desired and baste the edge of the dining-room table use a runner or Albert, who was alone in the bank, the hem in the center of the drawn square of crash hem-stitched with a surprised himself in the act of makpressing it, but he described the ex-To get rid of beetles, sprinkle ing it in boiling water; plunge im- the thought of tampering with the equal parts of red lead, sugar and mediately and momentarily into cold funds in his charge until he found

Dogs, no doubt, contribute some- nearly fill it with water. Then bore a in the wash boiler and cook; tighten ened that great beads of perspiration started out on his forehead, and he flung the pen from him as if it had been a deadly weapon. Was his mind temporarily unhinged by his days and nights of harrowing anxiety? That was Albert's first thought, but he dismissed it as absurd. At all events he must resign his position. He was unfit to be trusted with a temptation that had almost overcome him. time, however, his sturdy manhood A duck may lay a bigger egg than rallied against the shallow plea of the

The conclusions that Albert reached were startling enough, but he did not shrink from them. Ever since he entered the bank he had been giving tiny little hole. Still, you may try it He had not taken the matter seriously loose rein to a covetous imagination. But Freda could only succeed in get- he had been living luxuriously upon had led him, quite unsuspecting, to waters, day in and day out, with up- should be afraid of losing it, and then the pressure had been stronger! Suppose some emergency had arisen unexpectedly! He trembled to think what the result might have been.

17-22. Jehovah will do even more: a blessing—That is, make altogether the strong sheep will no longer be blessed, or, bless in abundance; in the canary flew toward her, and perched have seen it, you will shut your eyes no need for the information, but the 23, 24. Jehovah will appoint a viceespecially, by giving abundant prosthat instead of singing Freda promised, and before she thing to know what to do to clean the that, instead of singing Freda a song, could have believed it possible, the light tops of boots, or remove the fairy drew to the top of the water marks from the brass kettle. If only "Little girl," it said, "shut your eyes pipe the most wonderful little churn such and such an article had been

readily causes scouring and bloating sure enough, the rippling sound had knows just how it happens that the preserving, pickling, etc. On another rain, when the ground is wet. The definite temperatures, and such is not and it is greatly relished by them. Turn the flock on in the middle of the little fairy churning away at a golden that group put suggestions as to the emergencies.

SPY SYS THE

A REMARKAE OF ITS

Prussian Agent Boat Comma Up came the

choppy, roling around. The thir to resemble the conceal itself in heavily over the But the trained on the bridge an of the Southland to see the perisco "Submarine! F the captain on th "Fire!" comma

In an instant th aboard the steam ning at full spee zone, had found t of the gun crew beside the piles of deck, shells and p Bang-g-g" roare

rebounding along favorable circums "Bang-bang !" w

closer to the peris By this time the devil commander g

et go a torpedo Quickly the vessel its nose toward the get. The torpedo

The U-Boat

away with their live to the side, crawle ifeboats, which all

"I know," replied the light, they sent us out day than originally set.

"Funny," said the off

Traitors in the

get any report of it."

This is an astounding the intelligence system the Pauss'ans in their