

Effect of Big and Little Shells

The destructive power of t'se three inch shells used by the French light field gun is greater, in trench fighting, than is that of the mammoth projectilies from the great German howitzers. The latter, according to a press despatch from the front, seldom kill more than one or two men. On the other hand. with the small French shells, a heavy bursting charge is employed, and although the fragments are small, they fly with such force that they make fatal wounds and even cut into the wood of rifle stocks. "I observed the body of one German," says this despatch, "whose back had been pierced with about forty small particles of a shell which had burst close to him. These particles were as evenly spread as the charge of a shotgun. German wounded and captured Germans have told me that this French shell fire was so hellish that no m in escaped except by a miracle."

On the other hand, while big shells will play havoc with buildings or a paved street, when they burst in soft ground they are not dangerous. Most of the battlefields of France are on! muddy fields in which big shells make e crater about forty feet in circumfer- sea with her while their mates were ence and five or six feet deep. Their left floating in the ship's beats. The effect is chiefly upward and casualties are so rare as to be considered freaks. But, while they do not kill many their moral effect is great. The explosion of 1.094 tons gross, also was sunk by a a large shell produces a zone of shock of German supmarine's torpedo today. wide radius which is capable of bowling over well nigh every one within its compass and the after effects linger for today off Fastnet by the gunhre of a days and weeks.

when it exploded. It rendered him un- after being six hours in lifeboats. The conscioos. He was blind for sometime, Kotka sailed from Stockton (Me) May who, despite innoculation, contracted deaf for two weeks and suffered from 5 for an English port. toss of memory for over a month-and The Norwegian steamer Marna of all this without any surgical wourd.

Destroyer Damaged; Seven Vessels Lost

London, July 1, 7.5) p. m. - The torredo boat destroyer Lightning was da naged last night off the east coast by a mine or torpedo explasion. She is now in harbor. Fourteen members of the crew are reported as missing. Announcement that the Lightning had been damaged was contained in an official communication issued by the British admiralty tonight.

The Lightning was built in 1895. She was a vessel of 220 to .s, and her armament consisted of one 12 pounder and five 6-pounders. In times of peace her completement was fifty men.

London, June 30-The British steamer. S. ottish Monarch, which sailed from New York for Manchester June 16 with a cargo of sugar, was torpedoed and sunk yesterday by a German submarine. The steamer's crew of 36 men took to one of these days to warm a house with I never see the male. She has per-

up near the Hook Point lighship, not with a cm inetion of mirrors, and far from Dunmore Harbor, Ireland, and hetter ways may be found to concen were landed at Dunmore. Heavy seas, trate and transport to Europe the super were running at the time.

long and was of 5,043 tons gross. She nearer at hand, waiting discovery was built in 1906 and was owned by the Every chemical combination stores heat Monarch Steamship Company of Glas-

The Scottish Monarch a rived here in by the reduction of an element to one ballast on December 24. 1914, after a of less complexity by the loss of some passage which one of the officers of the of its electrons. It is not inconceivable vessels referred to as a "bouncing voyage," on account of the buffetting tegration of a sub tance no biggor that which the wassel was subjected to in the stormy weather which prevailed.

The steamer loaded stores for the admiralty and left for England on Jan. 6. She was a fine steamer and greatly ad-

London, July 2, 12 33 a. sm. - The Italtorpedoed with out warning five miles taitling or now at peace, will have from Castletown, Bear Haven, Ireland. | agreed that disputes between nations I'wo of the crew were killed on tright | shall and must be settled without fightand sweral were wounded or missing. Seven were saved.

town. Bear haven, that nine of the of peace in which the ravaged countries sardomene's crew were drowned and will recover their losses in population two others and of injuries. The mate and wealth, and find means and energy

is the only officer among the nine sur virces, two of whom were wounded.

The Sardomene sailed from Bunbury on Feo. 21 for London. She was a ves sel of 2,000 tons gress and was built in

London, July 1-- The British steamer Lomas, tound from Argentina for Bel fast, with a cargo of corn. was sunk by a German submarine, Wednesday af ternoon, sixty miles west of the Scilly Islands.

The submarine first fred two shots, presumably as a summons to haul to, but the second shell struck the steamer, killing the second officer. The crew took to the boats, and were picked up by a Be'gian trawler and landed at Mil ford Haven.

The submarine sent the Lomas to the bottom .. y a torpedo and shell fire.

The Lomas was of 3,048 tons gross, her length being 325 feet. She was built in 1898 at West Hartlepdol and was owned by the Buenes Aires aud Southern R ilroad Company of Hull.

The Norwegian ship Cambaskenneth, which sailed from Portland (Orc.), Feb. 9, with a cargo of wheat valued at \$171, 380, for Liverpool or Manchester, was sunk today by the German submarine U 39, by gun fire, 20 miles south of Galley Head, on the Cork coast.



The submarine signaled her to halt. Then it was asserted that there were a number of Germans among the shin's crew and eight men had the novel ex Culy 22 Deaths of Inoculated Men perience of being rowed to the submar ine and later disappearing under the latter, numbering 13, were landed at Galley Head this morning.

The Norwegian steamship Gjeso, of The crew was landed at North Shields.

The Norwegian bark Kotka was sunk German submarine. Twelve men of A staff officer was near such a shell the crew were landed at Queenstown

> Mandal, Norway, bound for Leith with a cargo of pit props, has been sunk by a German submarine off Halsund, ac cording to a Ch. istiania report.

Probable Charges of Next Eighty Years

William Hayes Ward, formerly editor of the New York Independent, who has reached the fourscore mark, writes in his old paper of the changes wrought in the last eighty years and of the probable changes of the next eighty. He densome, and heat can be carried cheap. It beeking insects or frogs or snakes ly by wire as electricity, if we coud strike after the manner of other only get it on the wire in some conven. hawks. It is a pleasure to watch her ient way. Tides, winds, the useless through the glass and see her make heat of summer in the tropical deserts will one of these days be stored up to be used in our winters. Why not learn in quest of something she never finds. a windmill? Archimedes set hostile haps assigned him other territory to The captain and 19 men were picked galleys on fire in the harbor of Syracuse flous heat of the African deserts. But The Scottish Monarch was 400 feet there may be boundless sources of heat which might be released by direct dis- could do on the wing the sociation, or as radium has shown us that we may learn how with the disina walnut to keep a house warm all win

Mr. Ward, despite the present worldwide war, sees the end of all war. "With in ten years," he says. "I believe that war will have ceased to curse the nat ions; it will have died of its own enor. ship Sardome , timber laden, was mity. The nations of the earth, now ing, and any nation that dares to attack another will be surpressed by main this way, and esca Word was received later from Castle - Torce. Then will fellow the decades

for new discoveries, new inventions new devices for the benefit of the peo ple new advance in arts and literature and the creation of a nobler world Then all nations will be neighbors inviting friendship, their border fortiesses rusty and rotten, their tariff walls forgotten, thei. limits traversed free'y by flight or flood, for travel or commerce, without fear or jea'ousy."

Most Violent Bombardment At Dardaneiles

London, June 30 .- A Rome despatch to the Daily News quotes the correspondent of the Piccolo as sending this message from Constentinc; le via So-

"I have just received authentic news that the action of the Anglo-French fleet in the Dardanelles has been resum- his way by his destruction of pests. ed with great violence and is meeting with important success."

The Mtyllene correspondent of the Times sends the following:

"The British torpedo gunboat Hussar on Saturday bombarded the ports of Chesmeh, Lidia and Aglelia, opporsite Chios, destroying some Turkish property, petro'eum depots and sma'l

Call Comes to Bulgarians to Leave London

London, July 1, 8 17 p. m. -Bulgarian reservists in London were served with a notice today to gather at their respective regiments so as to know where to report immediately in the event of being called to the colors.

At the Bulgarian consulate it was said that the notification was only a Tormality neccessitated by a change of r gimental depots.

Frem Typhoid

London, July 1. 5.22 p. m. - Remarkable evidence of the efficacy of innoculation against typhoid was furnished by Harold J. Tennant, parliamentary under secretary for war, in the house of commons this afternoon.

In the British Expeditionary Force in France, he said, there had been only 827 cases and 128 deaths up to May 27. Of this number 508 cases were persons child's mother was about to reprove who had not been innoculated, and 106 | him for speaking to of these died. There were only 22 deaths among the 308 men innoculated the disease,

The Hawk and the Grows

Day after day anl week after week as I look through the big, open barn door I see a marsh-hawk beating about low over the fields. He, or rather she (for I see by the greater size and browner color that it is the female), moves very slowly and deliberately on level, flexible wing, now over the meadow, now over the oat or millet field, then above the pasture and the swamp, tacking and turning, her eye bent upon the believes, amongst other things, that ground, and no doubt sending fear new sources of heat will take the place or panie through the heart of many of coal. There are, he says, "possible a nibbling mouse or sitting bird. She sources of heat in plent; going to waste. | occasionally hesitates or stops in her The transport of coal is bulky and bur- flight and drops upon the ground, as if seeking insects or frogs or snakes

these circuits of the fields on effortless wing, day after day, and strike no bird or other living thing, as if hunt over. He is smaller, with more blue in his plumage. One day she had a scrap or a game of some kind with three or four crows on the side of a rocky hill. I think the crows teased and annoyed her. I heard their cawing and saw them pursuing the hawk, and then saw her swoop upon them turn over in the air beneath them, if to show them what fores she

youd their powers. made a peculiar aral cawing and enjoyed the sport. clumsy and awkward the wing compared to the Time after time she came down upon them from a point high in the air, it a thunderbolt, but never seemed to touch them. Twice I saw her swoop upon them as they sat upon the ground and the crows called out in half-sportive, halfprotesting tones, as if saying, "That was a little too close; beware, beware!" It was like a skillful swordsman flourishing his weapon about the head of a peasant; but not a feather was touched so far as I could see. It is the only time I ever saw this hawk in a sportive or aggressive mood. have seen jays tease the sharp-

retaliating blows by darting into codar tree. All the crow tribe, I tak, love to badger and mock some

FARMER AND CROW

Thie 39 Bird is Not Welcome Re-

On the Pacific Coast a heated discussion raged around the crow, that pert, competent bird who has out lived the guns and traps of man for many, many years. Opinions as to his merits and demerits were sharply in contrast, the farmer taking a firm stand against the ornithologist, an each evincing for the other that degree of contempt that is always shown when science and casual observation

The farmer, as a rule, is no bird lover, because his life puts him in a position where he notices the depredations of birds, and does not furnish him the opportunity of seeing the good his feathered visitors perform. He is naturally scornful of all theories which posturate that the bird pays The crow dining on some parasitie bug, bettle or fly does not attract his attention as does the crow in the cornfield or elsewhere in the crops.

Against this the man of science brings a bill of fare of the crow, with statistics concerning the contouts of the crow's stomach, all of which counts but little with the farmer, who knows what he sees with

his eyes.

As an academic discussion there is perhaps little interest in the morality of the crow and his keeping of the commandments. His activities, whether they be good or bad, affect the farmer for the most part, and the farmer turns down his thumbs and demands the life of the crow. The farmer is the one who will suffer or profit in either event and as for the row he is quite capable of looka merry regationd who finds his sustounnes and joys everywhere,

A SHARP-EYED BOY

fored Out in Crowd Grandfather He Had Never Seen

"I don't know my own son. I am afraid I will never find him in this Medicine today by Dr. Reinier. He growd, and I have been waiting eight | told how he had substituted part of the years for this," complained an elderly man at the Montreal station as he looked searchingly about among the hundreds of immigrants who had just arrived. Just then a little child not more than four years old ran up to him, and, pulling at his coat, cried. out: "Why here's grandda." The when a stalwart Welshman just behind the child called out:

"Baby Jim is right. It is grand-da." Thus was the re-union of the Morgan family consummated

The elder man had left the old home eight years before when his son was but a lad of fifteen, and had been working in Ontario in an effort to raise the money to bring the rest of the family to Canada. He has had his share of hard luck, however, and the years passed without the object being attained. The son was prosperous enough in Wales to take unto himself a wife. For some years he worked as Mr. Lloyd George's garby suffragettes.

The father finally prospered and sent the money to aid his son to come to Canada, bringing with him the wife and child which his father had

The elder Morgan had sent his picture some to England, and the little his coming to see "grand-da" that his bright eyes were the first to notice the grizzled workman, who had aged to much that his own son barely recognized him.

GARE OF MILK AND CREAM

It is impossible to produce clean milk and cream unless the cows, stable, milker, utensils, and separator

To wash milk utensils use, airst, cold water for rinsing; second, warm water containing a small quantity of good washing powder for cleaning; third, boiling water or steam for ster-

Use a metallic strainer; it is practically impossible to keep cloth strainers sweet and clean and free from

Skim the milk as soon after milk ing as possible, and cool the cream

Skim a cream testing f.om 35 to 45 per cent .- the richer the cream the better it will keep. By skimming a rick cream, more skim milk is left at home for feed, and there is also a smaller bulk on which to pay ex press charges.

Do not mix warm, new cream with cold cream until it has been cooled Keep the cans of cream in a tank of cold water until time of delivery Wash the separator thoroughly after each separation.

Deliver the cream to the creamery or cream station early in the morning Deliver the cream not less than three limes a week during the summer, and twice a week during the

Protect the cans of cream from the sun by covering with canvas or with wet sack while en route.

SEAL BRAND



COFFEE

As near perfection as you can get in this world.

CHASE & SANBORN

MONTREAL

Patched Man's Head With Raubit Bone

Paris, June 30. - One of the most unusual medical operations produced by the war was related to the Academy of shoulder blade of a rabbit for a piece of the frontal bone of a French soldier who had been shot in the head.

A DAILY THOUGHT.

If thou art worn and hard beset With sorrow, that theu wouldst for-

If thou wouldst read a lesson that will keep

Thy heart from fainting, and thy soul from sleep. Go to the bills!-No tears Dim the sweet look that Nature

-- Longfellow.

Swoboda Likely to Get Freedom

Paris, June 30.-Charges of espionage against Raymond Swoboda, who claims to have been born in San Frandener at the house which was burned cisco, will be dropped, the Petit Pari sien says, as no strong evidence of his guilt has been developed. The charge of being responsible for the fire aboard the steamship La Touraine already has been dropped. Witnesses who have been heard regarding accusations of espionage have failed to give testimony boy had been taught so carefully about considered sufficient to establish his culpability.

Diseases of the Potato

There could hardly be a more timely or a more practicable, valuable publication at this moment than Circular No. 9 of the Division of Botany at the Experimental Farm, Ottawa dealing with "The Control of Potato Diseases," by H. T. Gussow the Dominion Botanist. With the contents of this circular every grower of the "solanum tuberosum" would profit by acquainting himself. It tells of the different diseases to which the potato is subject and of the preventives and remedies that can be suc. cessfully applied. Especially does it deal with seed potatoes, a series of precautions being given that should always be taken before sowing. Ins ruction is also furnished on methods that should be adopted to redeem in fected land, on the early recognition of disease, on spraying for the suppression of the Colorado heetle and Late Blight, and on the storing of seed potatoes. How to use bi-chloride of mercury and in what quantity is explained Stable manure should not be used for potatoes is the sound advice given, as it may engender a scabby crop, which can be averted by the use of fertilizers. When there is a lack of humus in the soil, an application of crumbled peat will be found beneficial. This will also re tain moisture in light soils. Informed tion is given on the preparation and use of Bordeaux mixture. The Circul ar, which can be had by application to the Publications Branch, Department of Agriculture, Ottawa, should have a wide circulation.