

G. KNOWLING. Central Store. **New** **G. KNOWLING. Central Store.**

Carpet Squares.

WE have just received another shipment of the latest and most artistic designs and makes in **CARPET SQUARES**, in all the various weaves and color combinations.

Hearth Rugs **Door Mats**

New CARPET SQUARES,
\$3.50
 to
\$68.00
 each, according to size and quality.

Turkish Runners **Wool Curtains**

Our reasonable prices keep household expenses down.

Central Store **G. KNOWLING.** Central Store
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Atlantic Salmon in Fresh Water.

In the fish cultural work of the Craig Brook station the Atlantic salmon has always been the leading species and the methods adopted, which have been essentially different from those pursued with any species of salmon elsewhere, have afforded data for some interesting and important biological deductions.

The methods pursued are in outline as follows: Brood fish are secured each year by purchase from the weir fishermen located on the tidal portions of the Penobscot River and are conveyed immediately to a roomy enclosure in a small fresh-water stream. Here they remain without other care than such as is necessary to guard them against escape from the enclosure or destruction by human or other foes, until late in the month of October, when the fertilized eggs are mature. Artificial work, after the usual methods, relieves them of their eggs. Spawning is nearly always completed before the middle of November, and then the salmon are liberated—commonly in tidal waters.

The collection of brood fish is always made in May and June, and at that early date it is found that the external appearance of the two sexes is so closely alike that it is impossible to distinguish males from females, and they are therefore bought indiscriminately. In September, however, it is found that the sexes have developed peculiar features which afford ready distinction between the sexes. At the spawning season it is always found that there are more females in the enclosure, an extreme instance being the brood of 1910, when out of 693 salmon there were 436 females and 257 males, in some other countries it has been reported that there is a predominance of males.

Early in the history of the station, studies were made on the question of the survival of the salmon that had spawned and their subsequent return to the river. The liberated salmon were marked by metal tags attached by wire to the rear margin of the main dorsal fin. Each tag was stamped with a number which referred to a record of all important facts relative to each fish, so that on recovery of a marked salmon it was possible to follow its history back to the day of its spawning and compare its length, weight, etc., on each occasion. This experiment was carried on for several seasons, and in all over 1,200 salmon were marked. Nearly 40 of these were recovered with the tags on, a few of them were recovered in the spring following their liberation, and the condition of these fish showed that they had been lingering in the river and had taken little or no food. The most of them, however, were taken during the May and June of the second season following their liberation—that is, two years after their first capture; these salmon had fully recovered from the emaciation of the spawning season, and measurement showed that in each instance there had been an increase in length. Several of these recaptured fish were females and in the autumn gave a second litter of eggs. It is probable that the 40 recaptured fish were only a small portion of the actual survivors out of the 1,200 marked; for it is altogether likely that most of the tags dropped off. Indeed, it seems a wonder that any stayed on considering the long time that had elapsed and the constant motion to which the tags were subjected, swinging back and forth with every movement of the fish. It being thus established that Atlantic salmon return to the river a second time for procreation, being then six years old, it is not improbable that a few of them return again, spawning the third time when eight years old, and quite possible that in rare instances the process may be repeated a fourth time at the age of 19 years.

It has until recently been supposed that the recovery of a salmon from the exhaustion of the reproductive process required absolutely a return to the sea and a sojourn of some months in its natural element, with access to its natural food. It was therefore without any expectation of a favourable result that the experiment was tried of retaining salmon in fresh-water ponds for several years after their first spawning. In November 1908, some salmon of both sexes were after spawning transferred to one of the artificial ponds at Craig Brook, and eight of them were retained for this experiment. Three of these fish died in June, 1909, and one more in September. The remaining four lived through to the spawning of 1910. For the first 10 or 11 months of their stay in the pond they refused to eat anything, though often offered small herring and other food. In the fall of 1909, however, they began to eat and showed good appetites, eating through the winter. When the spring of 1910 opened they began to eat ravenously and continued to do so until about July 1, when their appetites began to fail, and in a few days they wholly ceased to eat. The food taken had evidently improved their condition, and they came to the spawning season of 1910 in as good condition (excepting one fish) as is usual with salmon that have been confined in a single summer. There were found to be two males and two females. On November 2 they were subjected to the usual process of artificial spawning. Both of the males were found to be in normal condition, yielding milt as usual. One of the females was sickly and gave inferior eggs which never hatched. The other female appeared to be in normal condition in every respect; her weight was fully up to the average for salmon of her length (32 inches) and her eggs were of prime quality, for they developed as usual and hatched a normal proportion of fry which have thrived through the first summer fully as well as any others. After spawning, the two males and the best of the females continued to live, ate nothing for several months, recovered their appetites in April and May, ending well until about the middle of July, when they ceased eating, and have continued to abstain from all food until the present writing. Sept. 28, 1911, without showing any unfavourable result.—Read by Charles G. Atkins before American Fisheries Society.

RYAN'S Custom Tailoring.

It costs a small portion of your time to see our Overcoatings and Suitings, and you have the satisfaction of convincing yourself before placing your order.

We have a full line of **OVERCOATINGS and SUITINGS** in up-to-date Patterns.

The season is advancing, so a word to the wise is sufficient.

J. J. RYAN, Custom Tailor,
 P. O. Box 487. 307 Water St.

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Daily Investment News

St. John's, Dec. 10, 1913.

Did You Get Our December Investment Offerings?

We have already sent a copy to every person on our extensive mailing list—but we still have some copies left, and can honour any requests that may come in during the next few days.

You should form the habit of keeping informed regarding the attractive securities which this Investment House has to offer.

Then when the time comes for an outright or partial payment plan investment, you will have formed your judgment as to such securities as seem promising to you.

To start this excellent habit, please you write now to our Halifax office for our December "Investment Offerings." This will also place your name on our mailing list, and, without obligating you to anything, will be of undoubted value to you.

J. Mackintosh & Co.
 ESTD 1875
 Members Montreal Stock Exchange

HEAD OFFICES—HALIFAX
 Other Offices at St. John, Fredericton and Montreal.
 R. C. Power, Representative,
 Mercantile Chambers, St. John's.

The Peace Christ Gives

(John xiv, 27.)
 Peace, peculiarly my own—
 Flowing only from the Throne;
 Of such peace, the author, I
 Command all its blessings try!

Earth can never heal the smart of the sorrow-laden heart;
 Look for balm alone from heaven.
 By this world's life never given.

Earthly happiness at best
 Fills the soul with sad unrest;
 Pain with pleasure's close allied.
 While you in this world abide.

Every cup of pleasure taste,
 Drink it to its dregs, at last
 Sum the total. It is:
 "Variety of vanities!"

Changeless through vicissitudes,
 Shifting scenes and varying moods:
 Peace, to lose impossible,
 Fixed and firm as Zion hill!

Peace, that leaves thee not, tho' death
 Seizes on thy parting breath;
 Peace, that waits the spirit home,
 Borne secure o'er Jordan's foam!

Peace, that ripples like a river,
 Flowing on and on forever;
 This the peace I offer thee,
 Lasting as eternity!

I was cured of terrible lumbago by
 MINARD'S LINIMENT.
 REV. WM. BROWN.

I was cured of a bad case of carache by MINARD'S LINIMENT.
 MRS. S. KAULBACK.

I was cured of sensitive lumbago by
 MINARD'S LINIMENT.
 MRS. S. MASTERS.

Lodge Dudley Elects Officers

The annual meeting of Lodge Dudley No. 27, S. O. E. B. S., was held last night, and the election of officers for the coming year took place. Past President W. H. Goodland conducting the proceedings. The result of the election was as follows:

W. President—Bro. N. Andrews.
 Vice President—Bro. W. Butler.
 Chaplain—Bro. J. H. Jones.
 Rec. Sec.—Bro. C. W. Udie.
 Fin. Sec.—Bro. J. S. Taylor.
 Treasurer—Bro. G. P. Hutchings.
 Sergeant—Bro. B. T. Anderson.
 1st Guide—Bro. S. Morris.
 2nd Guide—Bro. R. Pike.
 3rd Guide—Bro. S. Thistle.
 4th Guide—Bro. H. Taylor.
 5th Guide—Bro. W. Churchill.
 6th Guide—Bro. H. Taylor.
 Inner Guard—Bro. M. Spurrell.
 Outer Guard—Bro. W. Thistle.
 Auditors—Bro. W. T. Quick, J. L. Neuman and W. Clark.

Trustees—Bro. P. P. McCoubrey, Goodland and Collier.

The submitted reports showed the Lodge to be flourishing, forty-two members having been initiated during the past year. From figures submitted, the financial standing was shown to be excellent, the total assets up to September last being \$8,022.69.

After the election a vote of sympathy was passed by Past President Bro. R. A. Squires was passed to President T. J. Pope, who is seriously ill. The meeting closed at 11.30 p.m.

MINARD'S LINIMENT CURES GARTHER IN COWS.

Big Sea at Placentia

From passengers who arrived in the city by last night's train we learn that a tremendous sea have into Placentia yesterday, and that the S. S. Coban, then discharging coals at the Reid N.M. Co. pier, had to move off in the stream, where the Argyle was also anchored waiting for the storm to abate to sail for the westward.

Houses Built Without Nails.

In Alberta there is a village of houses which have been constructed without nails. As a matter of fact, little or no hardware of any character has entered into their construction. These houses have been built by Ruthenian immigrants and their architecture is quite novel. Their first attempts at house building are usually of the kind they have been accustomed to over in Europe, and their buildings are of the typical Ruthenian style—log, pitch-roofed, thatched and wide in the eaves.

In many cases these buildings are put up without a dollar's worth of hardware. Even the doors, an affair of slender twigs woven and laced together, swings on home-made hinges and is latched with a wooden hasp. The floor is of hewn logs, unnailed. The roof, as at the favorite Russian roof always is, is a wonderful fabric of poles and cross-woven wheat straw, 10 inches thick, packed tight and solid, and laid with such care that it will stand the weather for 20 years.

Remarkable Courage

Mr. Noah Miller, of New Bonaventure, is in town to-day looking well after a trying experience. On Saturday night last while a strong wind was raging, the night being exceedingly dark, he was requested to go from British Harbour to Burnt Brook below the Bar at Smith's Sound to bring a party home on an important mission. With the courage of a true Newfoundland Mr. Miller undertook the journey and covered the distance, nineteen miles, in two hours with a 6 H.P. FRASER engine, using kerosene exclusively. Mr. Miller says he would like to tell every fisherman in Newfoundland, to buy no other engine than the FRASER, that \$20 will run a 6 H.P. on kerosene the entire summer better than on gasoline, that he has no interest in recommending or selling the FRASER other than he would like every toiler to have the same satisfaction and freedom from expense and trouble as he has had this summer with his FRASER.—ad.21

Here and There.

Essence of Ginger Wine only 10 cts. a bottle at STAFFORD'S Drug Store.—dec4,tf

MINNE ARRIVES.—The barque, Minnie, Capt. Wakham, reached St. John's yesterday. The passage was made in 28 days.

Ten Cents for a bottle of STAFFORD'S Essence of Ginger Wine.—dec4,tf

ORE CARGO.—The S. S. Wascona sailed from Bell Island last evening for Middlesborough with a large cargo of ore.

Hot Bovril, Oxo, and Chocolate Ice Cream and Cakes at J. W. CAMPBELL, Ltd.—nov20,tf

FROM ST. PIERRE.—The schr. Mystical Rose, reached port yesterday from St. Pierre with a fish cargo to Harvey & Co.

One 10 cent bottle of STAFFORD'S Essence of Ginger Wine makes 3 quarts.—dec4,tf

WILL NOT LOSE SIGHT.—Clerk Woolston, of Knowling's employ, who was with his spectacles to his eyes a few days ago will not lose the sight of the optic, as at first thought.

INMATE MISSING.—The police are now on the hunt for a 71 year old inmate of the Poor Asylum named Day belonging to Bay Roberts, who left the institution on Monday and has not returned since.

To Arrive To-Day.

50 bags HEAVY GREEN GRAPES.
 50 cases SILVERPEEL ONIONS.

In stock:
 275 bbls. WINTER APPLES
 Kings, Blenheims, Hulberts, Golden Balls, Ribstons, etc.

To arrive this week:
 50 bags PARSNIPS.
 50 bags CARROTS.
 25 bags BEETS.
 70 cases P. E. I. EGGS.
 25 boxes SEPTEMBER Cheese—Twins.

Super & Moore.

DINNA' FORGET

that fire protection is an absolute essential to your welfare and success. Losses multiply every year. Why not decide promptly to take a policy with one of my strong companies at a very low rate?

PERCIE JOHNSON,
 Insurance Agent.

Office: Corner Duckworth and Prescott Streets.



FALL OVERCOATINGS

in the season's most approved fabrics are ready for your inspection.

The High Standard, which we have set in past seasons, combined with recently added facilities, enable us to pronounce our Fall Showing

SUPERIOR TO ANYTHING SHOWN ELSEWHERE.

CHAPLIN,

The Store that Pleases.

THE BIG FURNITURE STORE

Superb Display

of
 Carpets, Rugs, Blankets,
 Canvas, Mats, Quilts,
 Linoleum, Oil Cloth,
 Cushion Covers.

Select your Carpet Square now. Hearth Rugs in endless variety. Mats any size and price.

The above stock just opened and we would advise you to select yours now.

Delays are dangerous. Inspect and be convinced.

CALLAHAN, GLASS & Co., Duckworth & Gower Streets

FOR SALE!

First-class schooner

'GONDOLA'

75 TONS.

Schooner and gear in first-class condition.

A. H. MURRAY.

December Patterns and Winter Fashion Book

NOW ON SALE.

Outports include 2 cents for postage.

CHARLES HUTTON,

FANCY DEPARTMENT.

GIFTS!

Attention each year has gifts. Already

that such a when the time from the bonds that will be a

ards. Drop us convenient, drop

CO.,

CHANGE.

Brooke, King,

ph's.

's Office.

rned.

rned surplus

\$237,000 the

much larger

vious year.

holders, for

this account.

NCE CO.

anager,




Figure the saving on your building

ective colors of red attraction lies in its cost. NEPHESET. Greatly reduces

of 20 years ago. blanket. And best of om fire-hazard alone cost, too. Can you in your roof?

ET

Products

Wall Board

NEPHESET Wall Board is a scientific product which takes the place of lath and plaster, comes in sheets 32 inches wide. Remember, it is the only wall board with waterproofed surfaces that requires no further decoration. Any one can put it up.

modern ways to waterproof interior NEPHESET dealer.

O., LTD.

ore Rifle

for 100 yards, and mark every time.

an says: "I shot cartridge with less hundred cartridges. saw a small rifle as as the Improved tury."

Price \$3.30.

14c. extra. Also

ETON'S.