

NOTICE.

Tenders will be received by the undersigned up to the 15th day of August, 1924, for the purchase of the whole or part of certain pulpwood belonging to the Government of Newfoundland as it now lies at various places in the Districts of St. George, St. Barbe, Twillingate, Bonavista and Trinity.

A general idea of where this wood should be found can be obtained by application to this office, but the undersigned is not prepared to guarantee to deliver any particular quantity or quality of wood.

Tenders should state the price per cord offered and the location of the wood required.

Terms of payment: Cash on delivery of Scales' report to purchaser.

The highest or any tender will not necessarily be accepted.

W. J. WALSH,
Minister of Agriculture & Mines,
Dept. of Agriculture & Mines,
St. John's, Newfoundland,
July 14th, 1924.

July 14, 1924



Keep Your Beauty

If Summer Sun plays havoc with your complexion our Lemon & Vanishing Creams

will quickly restore it. There are two dainty creams that will improve the skin and keep it in perfect condition.

You use the LEMON CREAM at night, and the VANISHING CREAM in the daytime.

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Pickled Meats

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Bologna Sausage.
Sliced Tongue.
Sliced Corned Beef.
Choice Ham Butt Pork.
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New Family Beef.
New Spare Ribs, superior quality.
Staple Strong Pickles and Chow.
Best Grade Canadian Butter

TURNIPS.

SELECTED FRESH EGGS

J. J. ST. JOHN.
Duckworth St. & LeMarchant Road.

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AND
Kindling Wood

Birch junk, finest quality for sale cheap; also dry kindling wood delivered daily to any part of city.

West End
Wood Factory.
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Mix Up Contents of Egg Without Stopping Growth.

OUTCOME OF RECENT EXPERIMENTS CHANGES VIEWPOINT OF ZOOLOGY, PROF. GAMBLE REPORTS.

TORONTO, Ont., Aug. 11.—The introduction of experimental methods into the field of zoology has changed the viewpoint of this science, in the opinion of P. W. Gamble, D.Sc., F.R.S., Professor of Zoology at the University of Birmingham, who outlined his views on the makeup of animals in his Presidential address to the Zoology Section of the British Association today. Taking as his topic, "Construction and Control in Animal Life," he pointed out that in recent years, students of zoology have come more and more to the viewpoint that animal life is a series of changes, and not a fixed state of affairs, as was at one time supposed.

"The changed attitude is the result of experimentation in the study of living organisms," Prof. Gamble stated. "This line of attack has brought to light many curious and unexpected facts."

"For instance, it is possible to cut the minute eggs of some animals into pieces, and each piece will develop into a perfect animal. Conversely, two eggs may be made to fuse together, and the resulting animal is normal."

"The contents of the egg may be disarranged without untoward effects on the individual that is formed from it."

"How can we explain these apparent inconsistencies?" Dr. Gamble asked. By what means can the egg thus be so grossly misarranged, still produce a properly formed animal?"

He suggested that the answer to the riddle was indicated by the work of Professor C. M. Child of Chicago, who has found in the embryos of many animals a "metabolic gradient," to use his own name. This theory indicates that the parts of an animal are living at different rates. One part, usually the head, is developing faster than any other region, and dominates other parts which are living more slowly in proportion to their distance from the head.

This decrease in vital vigour is the "gradient," and it is called "metabolic," because "metabolism" is used to describe the chemical processes of the living body.

The speaker explained that in the early stages there is only one such gradient extending throughout the length of the growing animal. Soon, however, other secondary gradients begin to branch off from the main one, some in connection with the formation of the muscles, others with the budding limbs and so forth, but all are directly or indirectly under the control of the dominant region.

"In this way it is possible to explain how an animal can develop normally from an egg that has been experimentally disturbed, provided that in some way a dominant region can be established."

"This is done naturally by the act of fertilization when the male germ-cell on penetrating excites the hitherto passive egg at one point, and this point becomes the dominant region from which the first formed gradient arises."

"This 'gradient hypothesis' serves to co-ordinate a very large number of observations in a rational fashion and it suggests also fresh fields for experiment."

"Intimately connected with this problem of control is the phenomenon of senescence, or growing old," said Prof. Gamble. "All animals with a complex system of gradients are fated to suffer a gradual slowing down of their vitality, which is the process of ageing. This is the penalty of high organization, and although by rhythmic periods of partial rest the organs of the body stave off the evil day, sooner or later the machinery becomes clogged and finally stalls."

"In some lowly forms, notably the flatworms found in every ditch, simplicity of organization carries with it a vast power of renewing youth. Re-

production is a simple cross division of the long body into two, after which the front half forms a new tail and the hind region a new head, and in place of the original parent are two offspring. During the formation of the new head a peculiar process called 'dedifferentiation' occurs—the tissues and organs of the body become less visibly complex, they become to all appearances younger, and the behaviour of the animal shows that they are in fact younger. Thus the newly-formed individual, though by origin part of an old animal, starts life as a veritable youth, and the onset of fatal old age can be indefinitely postponed."

Such a balance between growing old and a renewal of youth, the speaker suggested, can be extended from the individual animal to the animal in relation to its surroundings. "Just as the tail end of the flatworm, released from the dominating influence of the parental head, becomes young in its isolation, so a population of animals isolated by some circumstances of its surroundings may balance ageing against growing younger so delicately that during the passage of aeons it remains unchanged. The living Lapshells of the Fiji Islands are identical in appearance with shells from the oldest rocks, so exact has the balance been for untold centuries."

The Professor explained that in the more fully developed animal the gradients have become visible as definite structures devoted to the business of controlling the operations of the body, and he discussed the nerves and brain from this angle, as he considered them the most highly evolved organization that has originated from metabolic gradients. Prof. Gamble concluded that the principles being discovered by workers in the field of biology should be utilized to a much larger extent than is now the case in human thought and endeavour, because man is a biological creation and is subject to biological laws, even in the problems of government and civil life.

BUTTER CROCKETS at S. O. STEELE & SONS, LTD., opp. Seamen's Institute, 40c. and up; also Bean Crockets and Jars.

Australia Increases Navy

MELBOURNE—(A.P.)—Of the two cruisers provided for in the government's defence programme, one is to be built in Australia at an approximate cost of \$9,500,000. The other, built in England, cost about the same. The programme probably will include two submarines at a cost of \$1,150,000 each.



With this you can make your hair stay combed—all day

Men are finding in Stacom what they have always sought—an easy, natural way to keep the hair looking always as trim and neat as their favorite barber leaves it.

Women find Stacom just the thing to control stray hairs, to make the curl stay in, and to keep bobbed hair in place.

Stacom is a smooth, velvety, invisible cream—non-staining and non-greasy. It

comes in jars and in tubes—compact, economical. You can get it at all drug and department stores.

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FREE OFFER
Gerald S. Doyle, Art. Standard Laboratories of N. Y. Water Street, St. John's, Newfoundland.
Please send me a sample of Stacom.
Name.....
Address.....

Water Street, St. John's, Nfld.

Ambassadors Don't Pay Rates

Ambassadors enjoy many privileges. For instance, no ambassador can be legally compelled to pay rates or taxes in the country to which he is accredited.

In 1909, Bethmann-Hollweg, then German Ambassador in London, took a riverside residence at Walton-on-Thames, where he used to spend his week-ends.

The rate collector sent in his claim in due course, but Bethmann-Hollweg declined to pay, and the Treasury, to whom the Walton authorities appealed, upheld him in his refusal.

Similarly, an ambassador cannot be sued for debt, nor can he be legally arrested for any crime whatsoever, and this privilege extends also to all his servants.

In 1908, the magistrate sitting at Marylebone Police Court felt himself obliged to discharge a footman charged with a criminal offence on his pleading that he was an ambassador's servant.

RICHARD HUDNUT

THREE FLOWERS FACE POWDER
The Face Powder that is Different
Having the Particularly Desirable
Quality of Adhesiveness and being
furnished with the Distinctive and
Appealing color of Three Flowers
in All Popular Shades

MATCHMAKING.

I s o m e times lecture to my pieces, a b o u t their divers love affairs, but do not fear their plans to pieces—the final choice is rightly theirs. Much grief is caused by old g r a n d daddies who i n t e r f e r e with love's young dream, informing maidens that their laddies don't fit in any nuptial scheme. When my niece, Jane, considered wedding Augustus Charles Upjohn DePugh, I told her she would find the sliding as tough as housewife ever knew. "For he's a sluggard and a waster," I cried in tones like sounding brass; "he is a prodigal and taster of thorned joys that cut no grass." She did not heed my solemn warning, she laughed to scorn my counsel true, and on a bright and smiling morning she married A. C. U. DePugh. And his success is most amazing, he wins in all he undertakes, so that his neighbors all are gazing in wonder at the smoke he makes. My niece is now a happy woman, a gladder one you'll never see; and she'd be something more than human if she refrained from joshing me. "Oh, had I fallen for your warning," she sometimes murmurs when we meet, "some other girl would be adorning my husband's home on Easy street." I shudder when I'm contemplating the mischief that I tried to do by thus denouncing and berating Augustus Charles Upjohn DePugh.

WALT MATON

Be lenient with folly!
Old age, severe and prim,
Let youthful hearts be jolly;
Thrust not your melancholy
On mulling her or him;
Time was your heart, as theirs are.
Was tuned to mirth and song;
But now it knows what cares are
And trouble's years are long.

Be lenient with laughter!
Old age, by duty bent,
For Time, the burden-grafter,
Shall bud his cares soon after,
And youth is swiftly spent;
When you were young you mocked them
Who bade you change your ways;
When you were young you shocked them
And danced away your days.

Be lenient when they blunder!
Old age, correctly trait,
Let not your temper thunder
And weep their pleasures under,
Leave that to Time and Fate;
For once your heart, as theirs are,
Went leaping all about;
But now it knows what cares are
And they shall find that out.

Household Notes.
Lettuce for sandwich filling is nicest when shredded.
When using spices in preserving, place them in a tea-ball.
Accurate scales should be a part of every household equipment.
The loop by which a towel hangs may be made of the name tape.

This is the last week to secure a ticket in the Kilbride Derby Sweep. They may be purchased at the different stores and at Cash's Tobacco Store up to eve of drawing.—aug.12.24

Welcome! Welcome!
CATERING TO THE TOURIST TRADE.
Our store is wide open to the Tourist arriving in our City, and we will be pleased to give any information that a visitor to our City may require. We carry a full line of Picture Post Cards, Books of Views of Newfoundland; and our office is at his disposal where he can write letters and address Post Cards.
Our stock of British and American Tobacco, Cigars, Cigarettes and other Smokers goods, are of a very high grade.
A visit to our store will surely add to the pleasure of your trip.
CASH'S TOBACCO STORE,
July 17, 1924, 11 Water Street.

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F. T. D. SERVICE.
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Yard 1426 St. John's.

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Linseed Oil, Turpentine, Putty.

SPECIAL:

Red Paint, \$2.45 per Gallon.

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Boys' Brown Canvas Rubber Soled Shoes Only 90c.
Men's Brown Canvas Rubber Soled Shoes Only \$1.10
Youths' Brown Canvas Rubber Soled Shoes Only 75c.
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JOB LOT

(Slightly damaged by water)

About 200 pairs Ladies' White Canvas Boots, Shoes and Pumps, leather soles, damaged by water, at

\$1.50 the Pair.

100 pairs Child's White Canvas Skuffer Boots, with Iron Chrome soles. Size 8½ only. Price \$1.00 the pair
90 pairs Girls' White Canvas Skuffer Laced Boots, with Iron Chrome Soles. Size 12½ only. Price \$1.00 the pair
These Girls' and Child's Boots wear like iron.

F. Smallwood, Ladies Department.
aug.13.24 The Home of Good Shoes

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