

THE FATHER OF FISH-CULTURE.

With Green's Ideas About the Finny Tribe and Some of His Varied Experiences.

(Turf, Field and Farm.)

"How did you ever come to devise this scheme?" "I have been working at it ever since I was large enough to bend a pin."

The above remark was addressed to Mr. Seth Green, the veteran fish culturist, who is known to the entire world, and his reply indicates the extent of his labors.

"When I was quite young," he continued, "I would lie on the limbs of trees that reached out over the water entire afternoons watching the movements of the fish and studying their habits. In this way I discovered many characteristics which were before unknown. I saw, as every observer must see, the destructive elements that are warring against fish, and I realized that unless something were done, the life in the streams of this country would become extinct. To counteract this disastrous end became my life-work, and I am happy to say I have been its accomplishment."

"Were you successful on the start?" "No, indeed. Up to that time all artificial attempts to hatch and raise fish from the spawn had failed, and I was compelled to experiment in an entirely new manner. The work was a careful and tedious one, but I finally succeeded, and to-day I am able to hatch and raise fully seventy-five per cent. of all spawn."

"Enormous! Why, that is a larger percentage than either the vegetable or animal kingdoms produce in a natural condition."

"I know it, but we exercise the greatest care in the start, and guard the little fellows until they become able to care for themselves."

The foregoing conversation occurred at Gledonia, where the representative of this paper was paying a visit to the State fish hatcheries. It has been his privilege to report very many interesting sights within the past twenty-five years, but the present here exceeds in interest anything ever before attempted.

"How many fish are there in those ponds, Mr. Green?"

"As we have never attempted to count them it will be impossible to say. They extend as far up into the millions though. We shipped over three millions out of the ponds this year and there seemed to be as many afterward as before. We have nearly every variety of the trout family and many hybrids."

"You speak of hybrids, Mr. Green. What do you mean by that?"

"I have experimented for years in crossing the breed of the various fish and am still working upon it. We cross the female salmon trout with the male brook trout, and thus produce a hybrid. Then we cross this hybrid with the brook trout, which gives us three-quarter brook trout and one-quarter salmon trout. This makes one of the finest fishes in the world. He has all the habits of the brook trout, but he can both streams and lakes, develops vermicelli on his sides, rises readily to a fly, is far more voracious and fully one-third larger than an ordinary brook trout of the same age. The possibilities of the present in fish would be great, and we are rapidly ascertaining what they are."

As the men of new waters, the gentleman Mr. Green while he was in the above count, he could not but feel that he was in the presence of one of the few investigators who from a rich and life-long experience bring great benefit to the world. Let the reader imagine a strong and stalwart frame, armed with a head strongly resembling that of Socrates, and covered with a white silky beard and luxuriant gray hair. Seth Green, the father of fish culture, is a picture of health, and the reporter could not help remarking so.

If you had seen me the last winter and spring, young man, you might have thought differently."

"How is that? One would think, to look at you that sickness was something of which you knew nothing."

"And so it was until last winter. I went down into Florida in the fall to see what kind of fish they had in that State and study their habits and was attacked with malaria in its severest form, and when I came home I realized for the first time in my life that I was sick. My symptoms were terrible. I had dull, aching pains in my head, limbs, and around my back. My appetite was wholly gone, and I felt a lack of energy such as I had often heard described but had never experienced. Anyone who has ever had a severe attack of malaria can appreciate my condition. I went to bed and remained there all the spring, and if there ever was a sick man I was the one."

"It seems hardly possible. How did you come to recover so completely?"

"My brother, who had been afflicted by a severe kidney trouble and weakened with Bright's disease, was completely cured by a remedy in which I had great confidence. I therefore tried the same remedy for my malaria, and am happy to say I am a well man to-day, and through the instrumentality of Warner's Safe Cure, which I believe to be one of the most valuable of remedies. Indeed, I see it is endorsed by the United States Medical College of New York, and that Dr. Gunn, dean of that institution, has written a long article concerning its value."

"And are you now as well as formerly?"

"Apparently so. I keep the remedy on hand all the while though and do not hesitate to recommend it to others."

"One question more. How many ponds of fish have you here and how are they divided?"

"Well, we have 43 ponds which are divided up as follows: 22 ponds of brook trout, 2 ponds of salmon trout, 4 of McCloud river or rainbow trout, 2 ponds of German trout, 3 of California mountain trout, 2 ponds of hybrids, 4 of one-quarter salmon and three-quarters brook trout, 2 ponds of gold fish, and 1 pond of carp. Then we have what we call the centennial pond or 'happy family,' consisting of crosses of different fish, including Kennebec salmon, Land Locked salmon, California salmon, brook trout, salmon trout and hybrids. These fish range in size from minnows to 18-pounders, and in age from one and one-half months to eleven years. I forgot to say, also, that we have a 'hospital' pond, which is entirely empty, which speaks pretty well for a community of many millions. Indeed the whole secret of fish culture can be summed up in four things: impregnation—using no water, plenty of food, plenty of pure water and cleanliness."

The numerous fish exhibitions which are taking place in all parts of Europe and the unusual interest which is being manifested in this subject throughout the world all owe their origin to the process above described as originated and conducted by Seth Green. It is certainly cause for congratulation to every American that this country produces so many men whose genius brings value to the world, and it is

proof positive of the greatest merit that a remedy, even with such high standing as Warner's Safe Cure is known to have, should be so strongly endorsed and recommended by one so reputable and reliable as Seth Green.

Jewellery & Fancy Goods.

KENT BROS., Indian Clock, 168 YONGE ST., TORONTO.

The Leading Jewellery Establishment of Canada.

Come and see our immense stock of Watches Diamonds Clocks, Jewel cry, Silver-ware, etc., etc.

The Cheapest House in the Dominion. WHOLESALE AND RETAIL.

W. WHARIN & CO., Established 1857. Watches, Clocks JEWELRY And Silverware.

Every description of English, Swiss, and American Watches and Clocks cleaned, repaired and regulated.

Jewelry and Silverware manufactured, and repairs neatly executed.

47 King Street West, Toronto.

W. H. GURPENTER, 28 Bay Street, corner Melinda, Toronto. Jobbing of all kinds promptly attended to. Printers' and Engravers' work a specialty.



A. & S. NAIRN, WHOLESALE AND RETAIL COAL.

Car orders shipped direct from mines—lowest rates. OFFICES: 4 King Street East (corner Yonge Street) Nairn's Dock, Church Street, TORONTO.

ESTABLISHED 1856. P. BURNS, Coal and Wood.

GREAT REDUCTION IN PRICES.

Best Hardwood, Beech and Maple delivered to any part of the city (per cord) \$5 50 and Quality, Beech and Maple, delivered to any part of city (per cord) 4 00 Beech and Maple, by car-loads, in T., G. & H. R. yards (per cord) 4 50

All Descriptions of Hard & Soft Coal BEST QUALITIES, LOWEST RATES.

Orders left at office, 400 Bathurst and Front Sts., 57 King Street East, Yonge Street Wharf, and 532 Queen Street West, will receive prompt attention.

STANDARD LIFE ASSURANCE CO., OF EDINBURGH, ESTABLISHED 1825.

Head Office for Canada, Montreal.

Subsisting Assurances \$3,500,000 Annual Funds \$1,500,000 Annual Revenue over \$4,000,000 Claims paid in Canada 1,300,000 Deposited in Ottawa for Canadian Policy Holders 167,000 Other Canadian Investments 1,400,000 New Proposals received in 1883 2,786 Amount of said Proposals \$3,500,000

THE STANDARD maintains a high record for its liberal treatment to Policy-holders, and for its prompt settlement of claims, whilst its rates are as low as those of American and other companies.

W. M. RAMSAY, THOMAS KERR, Manager, Inspector.

Jaffray & Ryan, GROCERS AND IMPORTERS.

New Teas! New Teas! New Teas!

We have just received our New Teas, which we will offer at the following prices:

FINEST ENGLISH BREAKFAST, FINE ENGLISH BREAKFAST, 60c. FAVORITE ENGLISH BREAKFAST, 50c. MOYER'S FINEST ENGLISH BREAKFAST, 50c. YOUNG HYSON 8c. FINEST YOUNG HYSON, 70c. SUPERIOR, 60c. SUPERIOR, 50c. FINE, 40 cents.

Considerable reduction will be made on packages of 5 lbs. and upwards. Freight paid on all packages of 20 lbs. and over. We have been appointed agents for Chase & Sonborn's world-renowned Coffee. One trial will convince.

A complete assortment of Crosse & Blackwell's goods always in stock. Amongst other potted meats, GAME, ANCHOVY, SHRIMP AND BLOATER PASTE SALAD DRESSINGS PICKLES, SAUCES, JAMS, JELLIES, SOUPS.

Libby, McNeil & Libby's Canned Corn Beef and Soups. SPARKLING HYDROZON. Non-Alcoholic. A nutrient tonic for brain and nerve. Strongly recommended by Prof. Atfield, Ph.D., F.R.S., F.I.C., F.S.C., London, England. Ross's Belfast Ginger Ale.

JAFFRAY & RYAN, 244 YONGE STREET, TORONTO, ONT.

BAKTER'S MANDRAKE BITTERS. THE ONLY VEGETABLE CURE FOR DYSPEPSIA, Loss of Appetite, Indigestion, Sour Stomach, Habitual Costiveness, Sick Headache and Biliousness. Price, 25c. per bottle. Sold by all Druggists.

HILL'S MANUAL! THE WORLD'S GREAT BOOK OF SOCIAL AND BUSINESS ARTS, has already reached the enormous sale of 310,000 COPIES. THE 31th EDITION—just out of the press—contains (in addition to the vast amount of information, useful to everybody in every country,) the Constitution for the Government of the Canadian Dominion, Legal Forms in every-day use, Statistical and Reference Tables, and hundreds of forms that combine to make a volume absolutely necessary to every one in the Dominion. Sold only by subscription. AGENTS Wanted EVERYWHERE. Send stamp for information and terms, and mention this paper. Address BAIRD & DILLON, Publishers, Lakeside Building, Chicago, Ill., U.S.A. Ask any Book Agent for HILL'S MANUAL.

Bells. McSHANE BELL FOUNDRY manufacture those celebrated Bells and CHIMES for Churches, Schools, Clubs, etc. Prices and Catalogues sent free. Address H. M. SPANR & Co, Baltimore, Md. MENEELY BELL FOUNDRY. Favorably known to the public since 1858. Church, Chapel, School, and other bells, also Chimes and Bells. MENEELY & CO., WEST TEST, N.Y.

THE MENEELY BELL FOUNDRY. Bells of Pure Copper and Tin for Churches, Schools, Parks, Farms, etc. Warranted. Catalogue sent free. Blymeyer & Co., Buffalo, N.Y. NO DUTY ON CHURCH BELLS.

BUCKEYE BELL FOUNDRY. Bells of Pure Copper and Tin for Churches, Schools, Parks, Farms, etc. Warranted. Catalogue sent free. VANDUZEN & TIFT, Cincinnati.

KILGOUR BROTHERS, Manufacturers and Printers. PAPER, PAPER BAGS, FLOUR BAGS, PAPER BOXES, FOLDING BOXES, TEA CADDIES, TWINES, ETC. 21 and 23 Wellington Street West, Toronto.

RHEUMATINE. An Internal Remedy and a SURE CURE for all kinds of Rheumatic Complaints.



If you are suffering from KIDNEY COMPLAINTS Give RHEUMATINE a fair trial. You will never regret having done so.

Testimonial from Rosa Needham, who has been for years in the service of the Rev. Dr. Williams, of St. Paul Street Methodist Church, St. Catharines, St. Catharines, July 2, 1883.

MR. SUTHERLAND. Dear Sir,—I have been afflicted some years with Rheumatism, became stiff and almost helpless. I also suffered very great pain. I was in this state when I first saw your advertisement of Rheumatine in the papers. I thought it could do me no harm to try it, which I did with the best results. Now I can move about as well as ever. I had to take quite a number of bottles. Still that is nothing to being cured, which I am happy to say I am. I did not feel any relief until I had taken four or five bottles, then I began to feel better. I truly hope anyone else who is suffering from Rheumatism will give your Rheumatine a fair trial, for I was very bad and it cured me. Do as you see fit with this letter and believe me to remain.

Most gratefully yours. (Signed) ROSA NEEDHAM. P.S. I am living at the Rev. Dr. Williams, St. Catharines. Any reference to him will prove that the above is true. (Signed) ROSA NEEDHAM.

See our Change of Testimonials every week in Daily Papers. —SOLD BY ALL DRUGGISTS—

Woman's Medical College, Toronto

FACULTY—M. BARRETT, M.A., M.D., President of the Faculty, Institute of Medicine. G.E.O. WRIGHT M.A., M.B., Practice of Medicine. I.H. CAMERON M.B., Surgery. A.H. WRIGHT, B.A., M.B., M.R.C.S., Eng., Obstetrics and Diseases of Women and Children. A. McPHERDAN, M.B., Materia Medica and Botany. J.T. DUNCAN, M.B., Anatomy and Microscopy. R.A. BEEVES, B.A., M.D., Diseases of the Eye and Ear. R.B. NEVILL, B.A., M.D., Sanitary Science. F. KRAUSS, M.B., Medical Jurisprudence and Toxicology. AUGUSTA S. GILLEN, M.D., Demonstrator of Anatomy. A.R. PYLE, Chemist. The first annual session of the Woman's Medical College will open at the College building, Sumach Street, on Monday, October 1st.

The advantages offered by this institution to ladies desirous of entering upon the study of the science and practice of medicine, are unequalled in the Dominion. In addition to the General Hospital, in which 180 beds are now occupied, and which is well known as the largest and best conducted institution of the kind in Canada—the Burnside Maternity Hospital, the Eye and Ear Infirmary, the Fever Hospital, the Hospital for Sick Children—which, through the kindness of the Managing Committee, is especially accessible to students of the Woman's Medical School—the Home for Incurables, the Infants Home, and the Dispensary present facilities such as no other Canadian city can afford for the study of medicine in all its varied branches. In a great railroad and manufacturing centre such as Toronto, moreover, the opportunities for witnessing the treatment of casualties of all kinds are very numerous. The trustees of the Toronto General Hospital have very kindly made special arrangements for the accommodation of lady students. A gallery for the sole use of the latter has been erected in the operating theatre, and every provision has been made for securing their comfort and convenience while pursuing their clinical studies. The college building is situated immediately opposite the General Hospital, an advantage readily appreciable in cases of accident or other emergency. It contains commodious lecture, waiting and dissecting rooms, laboratory, etc., and is amply equipped with the necessary chemical, physiological and pathological apparatus.

Board may be obtained in the vicinity of the College at rates as low as in any other city. Intending students can undergo their matriculation examination subsequent to their entrance upon lectures in the School.

For further information apply to M. BARRETT, M.A., M.D., 204, Queen Street St., Toronto, or to GEORGE WRIGHT, B.A., M.B., 343 Simcoe St., Toronto.

FREE! By return mail, description of Moody's New Dress Cutting System, of Dress Cutting. THE BROWN HOT-AIR FURNACES. Parties wanting furnaces for heating churches (portable or brick-set) will get special low prices for thirty days. Address, M. G. BROWN, 25 Lakeview Ave., Toronto, Ont.