ISTS AND MAYMENTION

Equality of Water Flow Dependent am Forest Cover

It has been urged that in the incerests of navigation the Dominion Covernment should purchase such denuded forest land in the Eastern Provinces as might be necessary to reforest in order to prevent floods and the filling up of streams with sediment. In this connection the report on the Trent Watershed Survey, pub-Ushed by the Commission of Conservation, is of considerable interest. inthis region of Ontario, as a result of fires, 150,000 acres are practically a desert and the report urges a policy of forest conservation under Dominion, provincial or municipal control, to order to preserve the usefulness of the Trent Valley canal, in which over \$10,000,000 in invested. There are many such barren areas in the eastern provinces, which with the assistance of the Dominion Government might be made to produce valuable forest crops.

It Canada disastrous floods and low-water stages have been largely prevented by the timely action of the Dominion Government in setting aside as forest reserves the wooded slopes where the great rivers of the interior of the Dominion have their o. .gin. On the east slope of the Rocky Mountains over 20,896 square miles of nonagricultural land have been thus recorved, for the double purpose of regulating the run-off and of providing a perpetual supply of timber to meet the ever-increasing needs of the prairie settlers. In the Railway Belt to British Columbia amaller reserves have also been set aside, chiefly fer the purpose of maintaining a steady flow in the streams on which the trait-growing ludustry is absolutely desendent.

Slot Machine Provides Chair

An inventor in San Diego has developed a novel seek for use in parks | and pleasure resorts. Normally it is s tipped that it cannot be used, but upon placing a coin in the sict the nest may be tipped back into the usual position, making a comfortable and frestful beach. When the occupant rises from the seat it automatically swings forward and locks in a pop-usable position, from which it can only be moved by the insertion of another coin.

TREATING DISEASES OF HORSES FEE

Simple Treetment For Commor Foot and Log Troubles

In sore shins the trouble appears swelling, generally on the front of the cannon bone in young race

It is the result of concussion on mard ground, and much resembles 2 withit in both cause and treatment, but differs in that it is diffused or scattered over a large surface, whereas a splint is smaller and more confined. A splint, too, is on the side of the bone, while sore shins are al- | More o !mportant That Animals be ways in front. It may be produced by even a single gallop, therefore suspect this if the colt goes lame itamediately after a sharp burst of speed, and remember that it will merease with exercise. As in splints he walks soundly but drops when trotted. When examining him, if the hand be passed down the front of the bone Be will flinch when the spot is touched. In s. ch an early stage as this, when there is practically nothing to be seen at a mere glance, many jump to the conclusion that the trouble is in the shoulder. Later on a swelling is seen on the front of the bone, but by this time much damage may have been done unless care has been taken.

The treatment is practically the same as for a splint.

1. Take off the shoes and give him perfect rest.

2. Bathe with hot water then -change suddenly to cold water, and ese this freely.

3. Use the same blister as in esplints: Biniodide of mercury, two parts; fard or vaseline, eight parts.

Jockeys frequently use cocaine to hide this disease just before a race, Dut they thus intensify the Couble and turn what might have been a simple case into a serious one.

ED KOSE EA "is good tea"

ADVANCES IN A CENTURY

A contury ago a man could not take ride on a steamboat.

He 'ad never seen an electric light or decamed of an electric car.

He could not send a telegram. He couldn't talk through the telephone, and he had never received a typewritten communication.

He had never heard the germ theory por worried over bacilli or bacteria.

He never looked pleasant before a thotographer or had his picture taken. He never heard a phonograph talk or saw a kinetoscope turn out a prize

He never saw through a Webster's biabridged dictionary with the aid i a Roentgen ray.

He had never taken a ride in an

He had never imagined such a thing as a typesetting machine, or a type-

He had never used anything but a wooden plough.

He had never seen his wife using a sewing machine. We had never struck a match of

hs trousers or anything eise. i He couldn't take an anæsthetig and have his leg cut of without ree.

He had never purchased a ten cemt bot of much service in compariso magazine which would have been regarded as a miracle of art.

He could not buy a paper for a cent and learn anything that had only measures necessary in uncomp pappened the day before all over the cated cases." porid.

He had never seen a mechanical reaper or a self-binding harvester. He had never crossed an iron bridge

The question is sometimes asked as to the exact age or condition necessary to transform a heifer nto a cow. This is really rather a hard question to answer with finality, but in a prize of from the agricultural society at Johannesburg, South Africa, we find a definition. The prize list says: "The godiety's definition of a heifer for its show purposes is as follows: 'An animal (female boving half reage or three years or has a calf, whichever event first happens."

Acorne as human Poda Ve. / little attention has been given to the utilization of acouns. It is well

own that they are used as ford for le, horses, swine, turkey. o and of several species of white oaks form the food of man. The acorns hite oaks are mostly large and es in general produce fruit very dy. The Indians in Califor ways gathered the acorns of the tan oak and years of great often caused much misery. the early white settlers of Calirelied on the crop of acorns as part of their food supply.

MEAT ON THE FARM

Healthy Than Extremely +.

There are a few essential points

that should be observed in selecting

animals to butcher on the farm. . The first consideration should be given to the matter of health in the animals to be used for food. No matter how fat an animal may be nor how p its form, if it is not in perfect the best quality of meat ern. obtained. If the animal is su. from fever or from any serious rangement of the system the flesh wi. not be wholesome food. Flesh from animals that have been ill before slaughter is not likely to cure welland is very difficult to keep after curing. Bruises, broken limbs or like accidents all have the same effect on meat as illness, and unless the animal can be dressed immediately after such accidents, it is best not to use the meat for food. This would be true especially if there has been a rise

in temperature of two or more degrees. Such a rise in temperature ust previous to slaughter is likely to ult in stringy, gluey meat, and create a tendency to sour in curing. Animals that are in poor flesh will not yield first-class meat. While the texture may not be bad in such meat it is essential that a reasonable amount of fat he present to give fulcines a and flavor to the flesh. The presente of large amounts of fat is not essential and, in fact, it is often rasteful. It is far more important

hat he animal be in good health than

hat it be extremely fat.—Andrew

DR. OSLER ON DRUGS

Eminent Canadian Doctor Not a Great Medicine Giver

Dr. (Sir) William Osler is probably the greatest living authority on the use of drugsgin the treatment of disease. At one time a professor in John Hopkins University, Dr. Usler was appointed Regius Professor of Medicine ot Oxford University, England, and he le regarded by the doctors of every Moglish-speaking country as a great authority.

Dr. Osfer says of diphtneria: "We are still without drugs what can directly counteract the tox-albumens of the disease, and we must rely upon general measures of feeding and stimulants to support the strengt Medicines given internally are of lit avail in diphtheria." Concerning pneumonia, Dr. Os.

"Preumonia is a self-limited dise which can neither be cut short aborted by any known means at command. Even under the mos faverable circumstances it may minate abruptly and naturally w a dose of medicine having been ministered. There is no specific ment of pueumonia. The young titioner may bear in mind that pa are more siten damaged than h by th oo promiscuous system drugging, which is still only too

valent.' Of scarlet fever, Dr. Usler says "Ordinary cases do not require Medical antipyretics

with oold water." Of measles, Dr. Osler says: "Configement in bed in a well ve tilated room and light diet are

Of wasoping cough, Dr. Osler say: "The medical treatment is most u. estisfactory." Of yellow fever:

"Caroful nursing and a systemati plan of diet probably give the bes results."

Of dysentery: "The treatment of dysentery by topical applications is by far the more rational tian.

Toices Are unowing Deeper Nowadays there is a noticeare stir in musical centres when a new tenor or sorrano is discovered. A baritone or contralte voice, on the other hand however beautiful may be its quality attracts but little notice.

All the great masters agree 'h sopranos are becoming more and difficult to find, and so rare is tenor that the possession of such voice has been called a disease

AN EXTINCT GEYSER

Hot Lake at Banff is Reached by Tunnel

Few persons ever heard of a de funct geyser, but they are not un common. It is said that that beautiful widening of the Mississippi River known s Lake Pepin is roally a de funct geyser or perhaps the crater of a volcano, but the most remarkable one on this continent is near Banfi, the Canadian summer resort.

Here is a large cave or chamber within a mountain, and in its centre is a small, hot lake. The domelik roof comes to an apex some twenty feet above the water, and in this is an opening, or vent, two feet or s. in diameter, which pierces the rock roof six or eight feet until it reache. the outer air. This is thought by scientists to be an extinct geyser. and that the vent in the roof har been caused by the eruption of the waters. One reaches this hot pool now by meens of a tunnel, but formerly it was necessary to descend through the went, and a story is told of a dis tinguished Canadian official who, some years ago, tried to make the d cent Half way down the shaft this corpulent person stuck-to the alarm of bimseif and friends. He remained a acture for some time, in spite of strong language on his part and various deention.

The entrance tunnel was afterwards

LIFE OF PIONEERS IN THE FORESTS

First Settlers in Ontario Were Happy in Spite of Many Hardelips

When the early settlers of this country first took up land and built their shanties, the country being al bush, they cleared the land with the use of an axe by chopping the timber down and cutting it into lengths and burning it, says a writer on pioneer life in Ontario. The ashes gathered and put into leeches, water was put on them to run off the lye which was boiled down into what they called black salts and taken to marhet. That was the only way they had of obtaining money till they got their land cleared.

In reference to their houses, the roofs of the shauties were made of troughs, hewn out with an axe. The malls of the shantles were of course made of logs, the cracks being stuffed Ith moss. The chimney was built eticks and mortar in a triangular these: mortar was made of mud and tramped by the oxen. There were large flat stones at the bottom of the fire-place.

Bread was baked in a large iron pot with three legs and a lid. Hot posts were put under it and on the lid and it was turned around often. Meat was generally boiled. There were lots of potatoes and vegetables, such as cow cabbage, lamb's quarter, wild plums and currents. The only sugar they had was maple sugar, boiled in iron kettles and cooled in small, axe-hewn troughs.

Furniture in those days was made with nothing but an axe and an auger. The chairs were benches with four pegs for legs. The bedstead consisted of a pole at each side and two poles at each end driven into holes in the four upright posts. The bottom of the bed was made of slabs split with the axe, the same as the floor of the shanty.

The women would card wool, spin It and someone in the neighborhood would weave it into cloth, which made beautiful dresses and men's suits. They made their pens for writing out of wild bird's feathers, not having any geese or turkeys.

Through all the hardshops the people were very happy. They had church service in their homes turn about. The preacher would come to have service once in three weeks. The women went to church with their oprons and sunbonnets on, and everybody brought their bables. Later on they built churches out of logs and

People were very hospitable and by person travelling through the country, such as for flour, etc., would call in and stay where night over look them. Some times at night the foor would be almost covered with alen lying with their feet to the Ara.

THE OLD PLUG HORSE

Don' make fun of the plus. He may be slow and awkward and never get to the stable until dark, but he is the fellow who in the end will bring home the coin, says Bert Walker. The plug horse that pulls the harvester al day in the field puts more money in the bank for the honest farmer than a race horse that goes out and turns a half in 0:50 flat and then loafs for two weeks waiting for another rac to be matched. The old plug goes ou in sunshine and storm and pulls in few dollars every week, but the race horse waits for the day when the track is good and then generally loses more than he wins. Just so with the man Pin your faith to the plug who keep cornally at it; the fellow who gets up every morning and does so much and is ready to do it again next day. He lays up more skining dollars in th bank than the swift sport who lays vices used by outsiders for his extri around all summer waiting for luck to come along and turn a stream of offver into his pocket. One cackling Plymonth Rock hen is worth a doze sonstructed by the Canadian Govern screaming eagles when it comes to ment, but the process of squeezing paying off the mortgage. The plus through the hole, leaving some cuticis is the fellow who steadies the ship In the descent, and the knowledge and acts as ballast when the boat be that again would mean a did Mrg is the live rock. The plug is the fellow hat assilp would mean a did Ang is who lives contentedly and long, and horn made his living for three ye hot lake below was a novel or when he passes away the local papers and in addition cleared a profession. personce that the tunnel canne fur may, "He seaves his family in comtortable circumstances."

EUGENICS DEFINED

Sir Francis Galton's definition of engenics is "the study of age clee Inder social control, that me imgrove or impair the racial qualities of future generations, either physics ally or mentally." He has also dee fined eugenics as "the science which deals with all influences that improve and develop the inborn qualities of p moe." He appears, however, to have referred more particularly to reneditary influences, for in this consection he adds: "The aim of eugenlos to represent each class or sect by so best appreciates, causing them to emiribute more than their propor-Mon to their next generation; that bee, to leave them to work out their pommon civilisation in their own way." Another high authority has frewn a clear distinction between race improvement through heredity" RESouice and "race" improvement through environment" for which a now term "euthenies" has been coined,

In this stricter definition "eugenics" is concerned specially with the improvement of the human rece through mar: age and parenthood associated as these are, with the problems of peredity, race culture and raw derelopment.

CHARMED BY BLACK MACC

Englishman Said a Neighbor Spell Over Him

A man applied to the magistre en at Union Hall, England, for redress of various injuries inflicted upon him by a person who, he said, had long held him in subjection by the power of witchcraft. The person complained of had for some time been his opposite neighbor, and although it had been his constant study not to offent him, being well aware of the influence he possessed with the powers of darkness, yet he had, in some way or other, been so unfortunate as to incur his displeasure, and sevely he had suffered for it both in person and property, as the wizard had at differant times destroyed his clothes. tainted his provisions, prevented the smoke from ascending the chimneys. soured the liquor in his cellar, and on various occasions, when the complainant had been under the necessity of going out to business, had ro fascinated his powers of vision that on his return home all his efforts to discover his own door had proved ingrotual, and se had frequently been in der the necessity of applying to his neighbors to conduct him home.

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WHEN BIRDS MIGRATE

Munanitarian Invention to Pr. ont Devastation of Florice

Every spring thousands of migrating birds are dashed to death on the lighthouses that surround the British A Dutch naturalist has invented a

contrivance to prevent this destructon, and experiments are being made with it at the lighthouses at St. Catherine's, on the coast of the isles of Wight, and the Cashets, in the Engfish Channel. Both of these are on the principal migration oute, and annually account for the loss of great numbers of birds.

The naturalist takes the view that he birds are not stunned or killed by the impact with the lantern, out are attracted to the light, and keep eircling about it until they perisk. He accordingly has devised a series of resting-places, which at on the lantern itself.

Experiments already conducted the value of this invention, in one instance reducing the mortality from thousands of birds nightly to a hundred during the whole migration

The Generous West

An immigration man persuaded F. Lamborn, a native of Denver. visit Saskatchewan some three rears ago. He did so and bought 1,300 acre farm near Herschell, the said he now has sufficient for the rest of his life.

Sometime for the rest of his life.

Sometime to the community of the community of

setting \$126.500 for the land he 2 for \$27,600. He had 1,340 sais crop netted him \$37,800; he see W.C. bushels of flax for hich he setained \$1.40 per bushel. Mr. Lennand in addition cleared a profit of