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Classification of Crown Lands in New Brunswick

Advantage of Survay Work Set Forth by Prov. P.Z. Caverhill of Crown Land Department---Determining Growth on Lands is Big Problem

tion, in session here yeterday afternoon by Mr. P. Z. Caverhill. Chief
Forecter of New Brunswick, who is
in charge of the survey work being denoming the control, would require extensive tradenoming the control of the survey.

and type were averaged together, is being as and the polyment of the survey work being denoming the control, would require extensive traare trained, which would represent the control, would require extensive tra-

taking hold of this problem.

Chief Forester Caverhill in his pa- try is more difficult. per declared that the fire rangers Topography in New Brunswick per declared that the fire rangers and scalers in New Brunswick wers to be welded into one penmanen force to gibmit detailed reports on all fire and bug killed areas; to inspect and report on all logging operations and to in every way keep the Crown Land Office in touch with a cetaal changes in the field conditions. The paper pointed out what had been come in regard to the survey of agreement to the more complicated, overlead, or sky line features of the garvey is the classi-

in excess of \$15,000,000. Many changes have taken place with the development of this lumbe industry. White pine, which during the first half of the 19th century was the first half of the 19th century was cur important timber tree, the export of this species alone in 1815 being over 400,000 tong of squared timber has been for years nearly depleted. Hemiock, a few years at valued only for its bark, is hard to get at \$12 to \$14 fer M. for the round log. On apprace it was found necessary to reduce the diameter limit from 18 ft.—100 nor 13ft.—9ir. Thousande of acres of good timber land half been taken up ander the pretense of cariacres of good timber land hal been taken up under the precise of cyricultural development, only to be abandoned after desultory attempts at clearing and cultivating and after the occupant had burned, possibly, thousands of acres of good timber, these signs of the gradual depletion of forex land led to a movement for definite knowledge of the condition of the public domain, and a classification of the land as to whether it was chiefly suitable for farm or timber.

The timber estimate is made by tallying all merchantable trees, for a width of four rods along each strip, that the timber is shown separately that the timber is shown separately by species and diameter classes on cach eight rod; of the strip. This permits the showing in detail of the character of the stand and the tyre. From this tally the estimate is made by that the timber estimate is made by tallying all merchantable trees, for a stallying all mercha

ter licentes made provision for the classification at present being under-

1st-To report with as much de ed. tail as possible upon the character and quantity of the lumber, estimating the quantity of lumber and the reproductive capabilities of the forest show this rapid increase, much of quickly to periods of drought, and

consists of running strips through the timber at one hundred rod intervals, measuring the timber two rods on both sides along each strip, tallying the trees by diameter classes and species. In order to obtain data of the soils holes were dug at each bundred gods along these strips, and cotes on the character and quality of

The making of a contour map was considered, but as a large portion of our Crown Lands is gither gently rolling or level, a low contour interval would be necessary in order to show any detail. In deuse spruce stands, of which our New Brunswick woods are largely composed, it is impossible for the topographer to trace and plot the contour for any great distance on either adde of the

paper was a most interesting one, verses from points of known elevations and the partial of the growth per replete with information retion, also adding to the cost.

Sarding the wonderful timber A topographic map of sufficient actions of New Bruns- curacy to permit of the laying down wick. He traced the work that had of roads and the planning of an option of the model acre.

This year we made only a begin-

Come in regard to the survey of agreement in the being to direct future settlement in the province. Mr. Caverbill's paper in full follows: Classification of Crown Lands....

The classification of the Crown Lands of New Brunswick is the outcome of a movement that has been growing for a number of years.

The Crown Lands of the province consisting of 7% million acres, of which p½ millions are under licens is the chief source of provincial revenue, and the value of the lumber in dratry is recond only to agriculture, having at the present time a value in excess of \$15,000,000.

Cally the haul, and to some extent the stream driving. A topographic many therefore, would be of little revice to the department in sharing its future to the departm Classification of Crown Lands..... Caly the haul, and to some extent th

excess of \$15,000,000.

Many changes have taken place 2½ miles apart, and tied together long and severe, are followed.

of logging, also delineating the lands suitable for agricultural development. The act also provided for the calling blem. We need to know as closely as The act also provided for the calling of a convention in the interest of fore; protection. This convention results of our research system of man results of our research system of man results of our research system of man were not available to carry out the curvey, and the net result of this step was the establishment of the Forest School in connection with the list. School in connection with the Uni ere necessary in order that we may ere necessary in order that we may The act of 1913 renewing the tim- derive the greatest financial benefit

classification at present being under taken but for a time only desultor attempts were made to carry out the prevision. for classification, and it was not until last spring that field when logging is conducted on an each of the prevision of the ork was actually started.

Objects of the Survey

As defined by the act, the objects
the survey are:

When logging is consistence to be a survey are:

As defined by the act, the objects
the survey are:

Sub-drainage required by the heavy clay soils.

Sandy Loams are the same as clay stand exists, may be entirely changed by the cond foreder into

A white spruce measured seven

Ottawa, Jas. 17—The classification either run strips at much closer into the Crown Lands of New Brunstervals than we are deing, or offset with wante the subject of a paper read from the line frequently, either of before the Commission of Censerval which would add materially to the and type were averaged together, it

wick. He traced the work that had of roads and the planning of an opalready been done, pointing out the eration from the information containation advantages that would result follow ed therein would probably gost 15c ings in spruce, fir, pine and cedar. In the Government of that province in ing from that figure to 25 or 30 cents the first problem.

Chief Forester Caverhill in his patry is more difficult.

features of the curvey is the classicultural lands, the objects being to direct future settlement to localities where there is the greatest oppor-

the first concrete step taken to wards the classification was in 1906, when the Public Domains Act was passed, authorizing a survey of the Crown Lands, estimating the timber thereon, the annual growth, and cost of logging, also delineating the lands of logging, also delineating the lands of the source of the soil determines its moisture and fertility holding capacity, as well as to a spassed, authorizing a survey of the Crown Lands, estimating the timber thereon, the annual growth, and cost of logging, also delineating the lands of logging, also delineating the lands of the soil determines its moisture and fertility holding capacity, as well as to a spassed, authorizing a survey of the condition of the stream for diving.

Determining Growth Hard Problem

The physical character of the soil determines its moisture and fertility holding capacity, as well as to a spassed, authorizing a survey of the condition of the stream for diving.

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Soil is of Five Types

contents. They are heavy, ofte wet, and without drainage; will fre quei 11/ bake when under cultivation Clay Loams are lighter soils, containing a heavy percentage of clay, come sand and humus. They are us-vally well drained, easily worked, and form our most desired soil, as they

loams, but here the fand predomina reproductive capabilities of the forest show this rapid increase, much of area.

2nd.—To estimate as accurately as possible the annual growth of timber upon each area or tract.

Individual rees the solid rees show the reproduction of the copy become burned. Owing to the logging, and the net result in any the logging, and the net result in any the castly worked nature of the soil that the carrier worked nature of the soil state of the soil that the carrier worked nature of the carrier worked nature of the soil that the carrier worked na spring, they are desirable for inten-structured from the accessibility of the timber on each section, es-timating the cost of logging on the

ity of the timber on each section, estimating the cost of logging on the different areas, and the cost of ctream driving to point of manufacture.

4th.—To report the location of lands deemed suitable for agricultural purposes, distinguishing them from other lands that might be regarded as especially suitable for the growth and reproduction of timber.

In order to obtain these objects it was decided that a four per cent. In order to obtain these objects it was decided that a four per cent. Survey was the most desirable, this consists of running strips through the

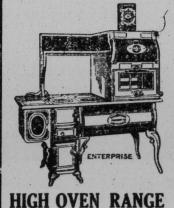


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MEXICAN ENVOY TO FRANCE AND HIS FAMILY



Don Luis Quintanilla, Mexican Charge d'Affaires to France, has arrived in New York with his family, en route for France via Spain. Don Luis' family consists of Senora Quintanilla, four daughters and four sons. Senora Quintanilla was born in France, the daughter of the late Pedro del Valle, who was a na uralized American. Don Luis said that conditions in Mexico, are rapidly approaching a normal condition. "The elections, which have just begun," he said, "will be completed by April 1, and it is a foregone conclusion that General Carranza will be elected constitutional President."

After Every Meal The Flavor Lasts