



1 APPENDIX VIII

2 Post-War Restoration -- Forest Products

3 by

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8 CHAPTER I

9 SMALL FOREST INDUSTRY

10 Introduction

11 The re-establishment of our soldiers is one of  
12 the most important problems of the present moment.  
13 Who would object to our helping our boys, by every  
14 available means, to recover a normal life for them-  
15 selves and a suitable subsistence for their families?  
16 That is the minimum we owe to those who offered their  
17 lives in defence of our rights and liberties and it  
18 is only logical that all classes should be interested  
19 in this: our governments by adequate legislative  
20 measures, the sociologists by specialized studies,  
21 the craftsmen in their workshops, the scientists in  
22 their laboratories; every one at his appointed task  
23 should contribute his mite.

24 Our immense and rich forests are specially well  
25 suited to help to solve part of this problem. Before  
26 mobilization a large number of our soldiers earned  
27 their living in the forest or indirectly in the wood  
28 using industries, and it is only natural that they  
29 should think of returning to it. Others perhaps will  
30 try to soothe their nerves shattered by the noise of  
battle, in the silence and peace of the forest and thus  
regain their self-reliance and ambition and a taste  
for life in the midst of a fine Canadian family



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1 It is to the sociologists and all men of good  
2 will, who are concerned with this problem that this  
3 paper is addressed. The author intends to show the  
4 nature of our forest, its place in our national  
5 economy, the necessity of the small forest industry,  
6 the new methods of mechanical and chemical conversion  
7 of wood, in short the advantages of the minor forest  
8 product industries within the frame of the forest  
9 village.

10 The flood of our veterans should not be drained  
11 towards the cities, centres of unemployment and  
12 social corruption, but to the countryside and the  
13 forest. The following paper is intended to prove that  
14 the Canadian forest offers to veterans a centre of  
15 activity full of diversity and attraction, in fact  
16 the IDEAL RE-ESTABLISHMENT MEDIUM.

#### 17 WHAT IS THE MEANING OF OUR FOREST?

18 Nobody now doubts anymore the real character of  
19 our forest within the frame work of our national economy.  
20 Its importance has never been exaggerated and too often  
21 it has been under-estimated. The size of our forest  
22 is so considerable and varied that we must consider  
23 it as the foundation of all our activities. This is  
24 so true that we only need a local or universal crisis  
25 to remind us of this fundamental truth which we are  
26 so apt to forget. Remove the forest from the face  
27 of our province and what will happen? Agriculture,  
28 fishing and the mining industry will be threatened  
29 with disappearance, for all the industrial activities  
30 of our people are based on the forest in all phases  
of their economical evolution. On the contrary,  
perpetuate the forest, husband it, manage it and make  
it produce to capacity, it is then the principal source  
of wealth of our country. For a good Canadian, fortune





1 grows on trees.

2 In the past, we have unfortunately too often dis-  
3 regarded the profound significance of the forest in our  
4 national life. The forest is not a cow that can be  
5 milked forever without care and feeding, specially  
6 if the milk is to be skimmed only, nor is it a mine  
7 to be worked only once and left with a frightful  
8 pile of waste. No, the forest is a crop that can  
9 guarantee to our forest population a constant and  
10 periodical revenue, because this national resource  
is the only one that can constantly renew itself.

11 A general examination of the state of affairs  
12 in relation to our forests is a necessity. Let us  
13 examine it together, as objectively as possible. What  
14 has been our progress so far in the forest domain?  
15 What shall be our plans for the future. Is it worth-  
16 while to go and live in the forest? Can it provide  
17 subsistence for the families of the veterans it  
18 invites to settle there? These are questions that  
we must naturally ask ourselves.

19 First of all have we a forest? The Province of  
20 Quebec with its timbered area of 564,570 square miles  
21 and a timber ratio of 61.3%, owns one third of all  
22 the forests of Canada. It owns one twelfth the forest  
23 area of all the countries forming the cold belt of  
24 the globe, including Denmark, Estonia, Finland, Lethonia,  
25 Lithuania, Norway, Sweden, Poland, European Russia and  
26 Siberia, countries whose forests are composed of species  
27 similar to ours. Quebec alone owns one thirtieth of  
28 all the forests of the universe. This is an incredible  
wealth!

29 Even from the qualitative point of view, we are  
30 rather well endowed. It is true that we only possess  
woods of an average density; we totally lack the very



The first part of the document discusses the importance of maintaining accurate records and the role of the various departments involved. It highlights the need for clear communication and coordination between different units to ensure the smooth operation of the organization.

In the second section, the author details the specific tasks and responsibilities assigned to each department. This includes a breakdown of the workload and the expected outcomes for each area. The document emphasizes the importance of meeting deadlines and maintaining high standards of quality in all work.

The third part of the document provides a summary of the progress made to date. It includes a comparison of actual performance against the initial goals and objectives. The author notes the areas where the organization has excelled and the challenges that remain.

Finally, the document concludes with a series of recommendations for future action. These include suggestions for improving processes, enhancing communication, and addressing the identified challenges. The author expresses confidence in the organization's ability to overcome these challenges and achieve its long-term goals.

Enclosed

For your information and guidance, please refer to the attached documents. It is requested that you review the information and provide your feedback as soon as possible.

Yours faithfully,  
 [Signature]

1 light woods like balsa and very heavy woods like  
2 teak wood and lignum-vital, but the same state  
3 of affairs exists in all northern states. Spruce  
4 is our characteristic specie, as it constitutes  
5 more than 50% of our total forestry volume which  
6 reaches about 54 billion cubic feet. Fir is next in im-  
7 portance with 20%, birch with 10%, jack pine with  
8 6%, yellow birch with 4%, poplar and maple with each  
9 2%, cedar with 1%, then red pine, hemlock, basswood  
and a few other species of secondary importance.

#### 10 WHAT DOES OUR FOREST PRODUCE?

11 Canada, the second forest producing country in  
12 the world, produces today on account of the war,  
13 nearly 40 billion feet board measure in woods of  
14 all sorts, that is enough lumber to build each year  
15 an enormous airplane runway one inch thick, 280 feet  
16 wide, around the world, at the equator. He is not  
17 only a gigantic contribution to the war effort,  
18 but also an industry providing the daily bread for  
19 thousands of Canadian families. Such a crop cannot,  
20 however, be carried on indefinitely without seriously  
21 compromising the perpetuity of our forest reserve.  
22 This conclusion is statistically proven by the fact  
23 that only 25% of the felled timber in this country  
24 is really converted to finished products. The rest  
25 is lost. In other words, for each volume of con-  
26 verted forest product, we waste three units. A simple  
27 calculation reveals that we loose annually, in  
28 the Province of Quebec alone, about fifty million  
29 tons of ligneous matter in all forms. Far be it  
30 from us to claim that nothing is lost in other  
countries, but it must be admitted nevertheless that  
this frightful pile of waste could revolutionize  
our domestic economy if used as raw material in







1 various conversion industries, particularly in the  
2 small industries of the forest villagos. Here is  
3 assuredly our great problem of practical patriotism.

4 If the total volume of our forest crop is so  
5 impressive what would we think of the products we  
6 extract from it? What do we draw from the forest?  
7 The analysis of the nature of the forest production  
8 actually reveals, not without some surprise, that  
9 three types of primary forest products share between  
10 them almost the total global value, namely, pulpwood,  
11 sawn timber and fire wood. Almost half (47%) of  
12 the wood cut in our province is intended for con-  
13 version into pulp and paper, almost one third (31%)  
14 is used for fire wood, and about one fifth only  
15 (22%) enters the saw-mills, that is for the small  
16 industry. Much pulpwood, a lot of logs, a little  
17 plank and board. That is all our forest now actually  
18 produces. Without accepting the word "wood-cutter"  
19 in the degraded sense that some like to give it,  
20 we have really remained a nation of wood-cutters;  
21 we are not yet a nation of foresters in the true  
22 sense of the word, because a nation of foresters,  
23 conscious of the true value of its natural resources,  
24 tries to utilize all parts of all the trees for the  
25 integral use of the woods.

### 23 LARGE AND SMALL FOREST INDUSTRY.

24 Since we only produce three types of priary forest  
25 products, it is proper to assert that our forest  
26 industry lacks diversification. Such a unilateral  
27 orientation inevitably leads to profound reperoussions  
28 in our way of living and in our general national  
29 economy. What should we think of the large industry?  
30 Without a doubt large industries are needed in a  
country like ours. Everyone admits their value



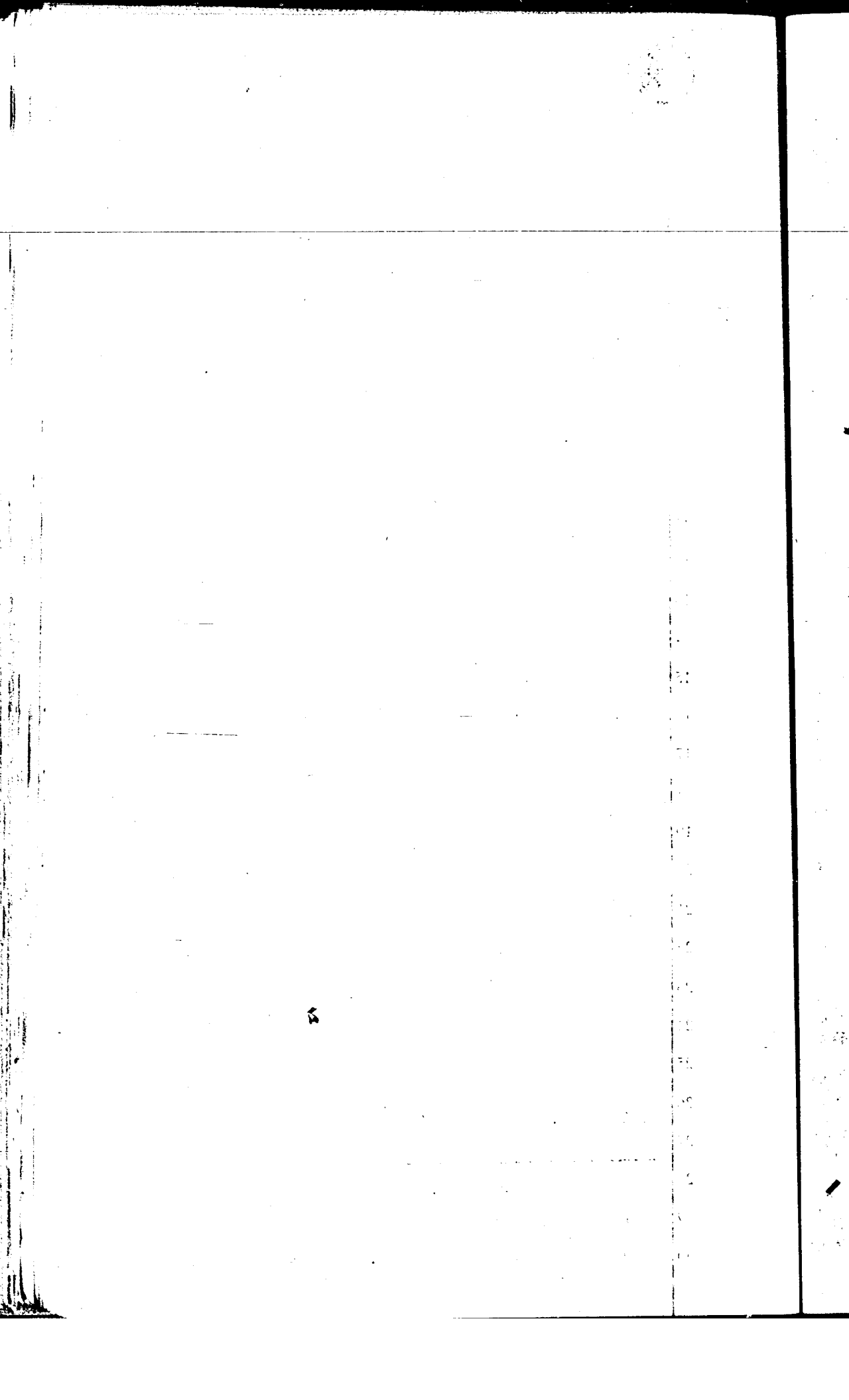


1 from the point of view of the employment they create,  
2 wages they pay, the raw material and the agricultural  
3 products they purchase at home. On the other hand,  
4 the large industry brings certain disadvantages  
5 some of which are serious. On account of its very  
6 nature, it is necessarily oriented to the export  
7 markets and therefore it is at the mercy of powers,  
8 often of an occult nature and always entangled,  
9 that control that market; capitalism and international  
10 politics. Inevitably it is caught in the meshes  
11 of intrigues and competition, it floats hopelessly  
12 at the mercy of the tide of international affairs  
13 which pass by periods of prosperity, true or  
14 fictitious, followed by long critical periods. But  
15 all economic crisis are immediately interpreted  
16 by a slowing down or even a temporary stoppage of  
17 our forest activities and thus reaches in fact the  
18 roots of our economic organization. It is known  
19 by experience that a decline in the paper production  
20 always means a complete disaster, not only for rural  
21 life, but also by ricochet for the country at large.

22 Large industries certainly are needed, but to  
23 counter-balance certain dreadful social and econom-  
24 ical facts, we need, more than ever, the small rural  
25 industry, sound, strong, well oriented, well managed  
26 and specially well supported by scientific research.  
27 Small industries in general surely deserve very  
28 special consideration by the veterans, who are at  
29 this moment at the crossroads of their return to  
30 civil life.

#### ADVANTAGES OF THE SMALL INDUSTRY

31 The beneficial influence of the small industry  
32 could establish a happy and necessary equilibrium  
33 in our economic organization. Searching for that





1 state of equilibrium, only one solution is imperative;  
2 the development alongside of large industries al-  
3 ready in existence, of small establishments in large  
4 numbers and industrialized forest villages in  
5 strategically well chosen localities. Our forest  
6 resources would then be transformed into wealth,  
7 thanks to a more judicious, varied and complete  
8 utilization. A certain number of these industries  
9 could even use the enormous quantities of wastes  
10 left by the large operations enterprises either  
11 on the forest ground or in the mills, by transforma-  
12 ing them into an impressive series of varied objects  
13 which our domestic market presently imports in a  
14 singularly shameful manner. Not only is the small  
15 industry the most efficient means of stopping this  
16 sad rural migration towards the large centres of  
17 population, but it may easily create for itself a  
18 considerable local market, a stable market, almost  
19 sheltered against the harmful influences of the  
20 international factors mentioned above.

21 The advantage of this privileged state springs  
22 from the fact that the large industries are  
23 necessarily few and located in favourable places  
24 in function of the raw material, motive power and  
25 labour supply, but rarely in function of the local  
26 market. It, therefore, follows that between these  
27 large units of massive production, vast territories  
28 are eliminated either on account of distances, or  
29 on account of the transportation system, whereas  
30 this market is perfectly accessible to the small  
industrial organization that may reach the small  
consumer more directly due to lower administration  
charges and more advantageous local conditions.  
Whoever penetrates slightly into the hinterland



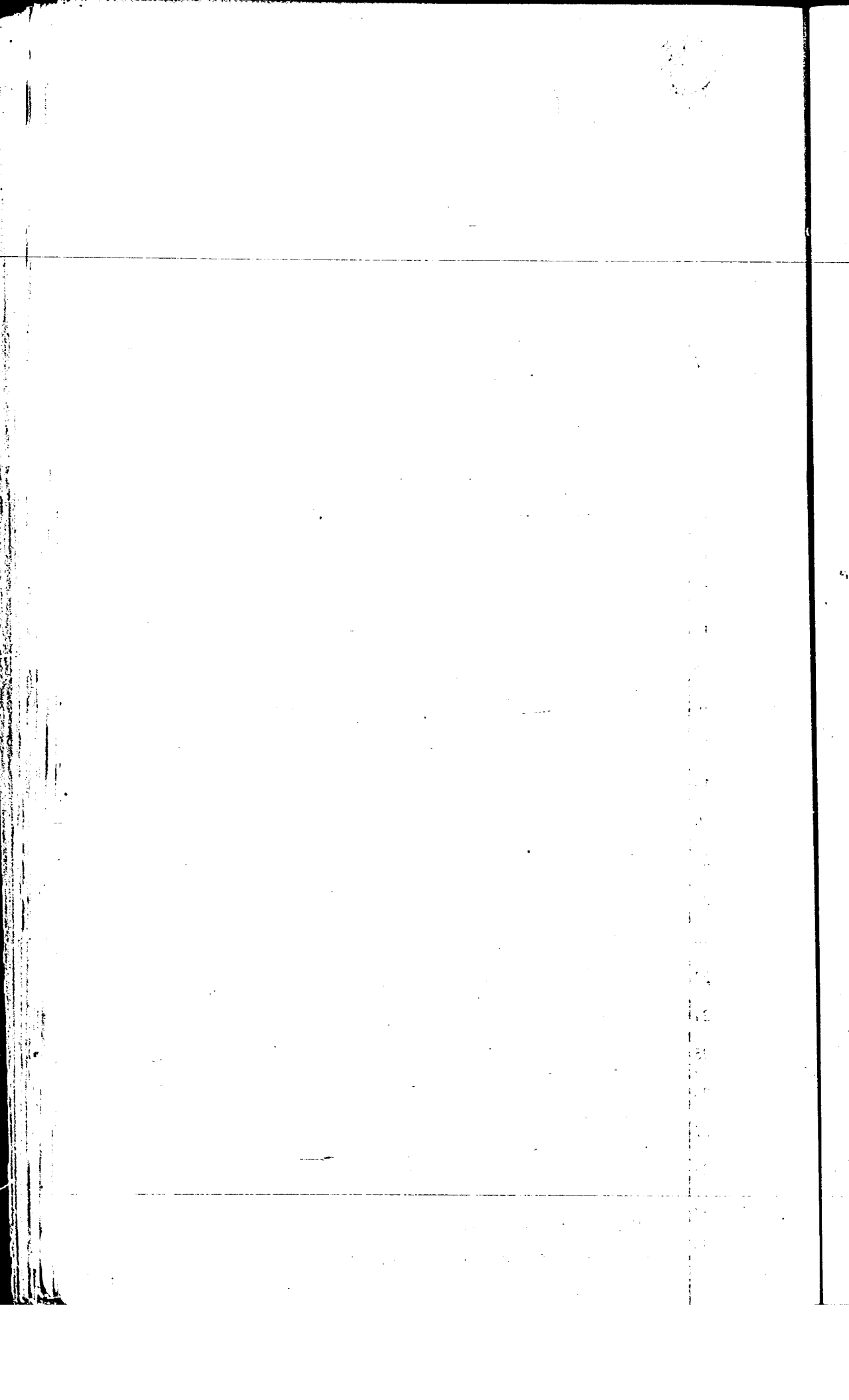


1 of our immense country and far away from the  
2 large communication arteries, will easily perceive  
3 this state of affairs.

4 The small industry is, therefore, certain to  
5 survive from the point of view of the market, it  
6 only needs to be made fit to resist competition in  
7 connection with the modern and economical methods  
8 of production. Not only has small industry a cause  
9 for existence in our country, so wealthy in natural  
10 resources, but we believe it should be specially  
11 attractive to our veterans.

#### 11 THE TECHNIQUE OF PRODUCTION.

12 The recent war has certainly awakened public  
13 attention to forest industry and future peace must  
14 continue to stimulate this general interest, if really  
15 we wish to introduce and render profitable the in-  
16 tegrated utilization of the products of our forests  
17 and our wooded farm lots. To attain the desired goal,  
18 it therefore seems essential to determine, modify and  
19 adapt to the small industry certain utilization  
20 techniques which normally are suitable only to the  
21 large industry. Thus would be established simple  
22 and economical methods applied to industries of  
23 lesser importance but by way of compensation, more  
24 numerous. Evidently, all production techniques could  
25 not be thus adapted, but there are some that can be,  
26 there are even many that can. It must, nevertheless,  
27 be realized that these adaptations will not happen  
28 automatically or accidentally, simply by the good  
29 will of the large manufacturer. It will necessitate  
30 patient specialized researches innumerable trials,  
long and painful experiments. But there is ground  
to hope that our small industries, present and future,  
will gradually learn to benefit from the large utiliz-







1 ation technology, which will therefore allow it to  
2 hold its ground against competition and play an  
3 enviable part in the industrial Canada of to-morrow.  
4 Without desiring to fight uselessly and with unequal  
5 arms against the methods of serial production of the  
6 large industry, the small industry will surely find  
7 intermediary or complementary opportunities with the  
8 large industry. Manufacturers moreover are the first  
9 to recognize that certain products may be produced  
10 more economically on a smaller scale. But what are  
11 these products? That is the big question. A clear  
12 and precise answer cannot yet be formulated in all  
13 cases, but to find them diligent and well co-  
14 ordinated researches are a necessity. Their choice  
15 will depend on many factors; local conditions,  
16 motive power, species available, rural market, means  
17 of transport, skill of labour, etc.

#### 16 GENERAL ORIENTATION OF PRODUCTION.

17 It has been previously stated that we almost ex-  
18 clusively produce pulpwood, boards and fire-wood.  
19 Pulpwood enters the large industry and is thus, on  
20 account of this fact, driven out of these consider-  
21 ations on the small industry. The preparation of  
22 fire-wood is not precisely what may be called an  
23 industry, it is rather a trade. There remains actually  
24 as the sole industrial activity on a small or average  
25 scale that of our sawmills. This unique industry  
26 naturally depends on one sole market; construction.  
27 When this market is firm, all goes well, but when  
28 it is affected by a crisis there is distress in  
29 our forest villages. It is therefore important  
30 above all to diversify our forest production in such  
a way as to open up many different markets, so that  
all of them will not suffer from periodical crisis,



Table with multiple columns and rows. The text is extremely faint and largely illegible. The structure of the table is indicated by horizontal and vertical lines. A vertical column of numbers is visible on the right side of the page, including 30, 20, 10, 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.



1 anyway, not simultaneously. When one market is  
2 weak another one is strong, according to the law  
3 of compensation. Moreover, the diversification of  
4 our forest industries would have the fortunate  
5 result of utilizing economically certain species now  
6 actually useless but essential to the forest, like  
7 the aspen and the birch, as well as the wastes  
8 left on the forest ground or abandoned by other  
9 manufacturing industries. Such a combination of  
10 mechanical and chemical processes of conversion  
11 will then enable us to utilize integrally all  
12 parts of all species, a triple advantage from the  
13 point of view of silviculture, forest protection and  
14 domestic economy.

15 In the next chapter of this series a summary  
16 review will be presented of the various forest  
17 processes and products, old and new ones, that  
18 may eventually play an active part in any rural  
19 industrialisation, and, in a third chapter, minor  
20 forest products will be dealt with.

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## 21 CHAPTER II

### 22 FOREST PRODUCTS, OLD AND NEW

23 Recent scientific researches have given to the  
24 world a whole series of new and improved forest  
25 products, fire proofed, bug and rot proofed, im-  
26 pregnated with resin, compregnated and in plastic  
27 form, some of which will probably be manufactured  
28 by the small industries, particularly on a co-  
29 operative basis in the forestry village. These new  
30 products were developed in the course of the last  
war by the wood technicians of the United States and



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1 other countries. Industries were then obliged to  
2 find in wood a suitable substitute for those light  
3 metals and their alloys which had become scarce on  
4 account of numerous restrictions imposed by war con-  
5 ditions. In order to solve this problem it was  
6 necessary to find new physical and chemical treat-  
7 ments which permitted the correction of or the total  
8 disappearance of the natural weaknesses of wood,  
9 that is, its low density, the inequality of mech-  
10 anical resistance in different species and even from  
11 one tree to another, its weak resistance to fire,  
12 pests and fungus as well as the unsatisfactory  
13 characteristics of shrinkage and swelling brought  
14 about by contacts with water and variable atmos-  
15 pheric humidity. These problems have been so  
16 successfully solved that these processes will not only  
17 endure after the war, but they will literally re-  
18 volutionize industries in the construction and  
19 engineering fields. The logical consequence of so  
20 many interesting developments will be a stable and  
21 diversified market, which will greatly reassure the  
22 residents of our future villages. Without giving  
23 here precise technical details, let us mention briefly  
24 the main groups of these new forest products.

#### 22 DRESSED WOOD.

23 Pressed wood or "Lignostone" is obtained by apply-  
24 ing a strong pressure to wood in a direction per-  
25 pendicular to its fibres using powerful hydraulic  
26 presses under well determined conditions of temperature  
27 and humidity. The original density of wood, equal to  
28 about 0.5 for our resinous woods, can be raised to  
29 that of the hardest woods, indeed, to as much as 1.4.  
30 In other words, with the resinous woods, the poplar,  
the aspen and other light woods, a new kind of wood





1 can be made whose density will be equal to or will  
2 surpass that of the maple, teak wood and even  
3 lignum-vitae. This artificially hardened and  
4 stabilized wood offers strong resistance against  
5 blows and wear and it can be used, for instance,  
6 for the manufacture of brake linings and other mach-  
7 inery parts exposed to friction, as well as extremely  
8 durable wood for flooring and furniture.

#### 8 LAMINATED WOOD.

9 This group includes composite woods, not im-  
10 pregnated but glued together under pressure, by hot  
11 or cold process, by means of special resistant glues,  
12 whose basis is phenol-formaldehyde, urea-formaldehyde,  
13 casein, albumone or other natural or synthetic ad-  
14 hesives. The pressing time, once very long, is now  
15 reduced to a few minutes or a few seconds by accel-  
16 erating the drying or the resinification of the ad-  
17 hesive by the electronic heating of the layer of glue.

18 The advantages of laminated wood are numerous and  
19 significative, namely, elegance and the stylish  
20 architectural effects, the future possibility of  
21 using our small trees in the composition of large  
22 pieces (for instance, beams of 80 feet in length with  
23 a cross-section of 24" x 24") up to now imported from  
24 the Canadian or American west coast, rapid assemblies  
25 and thanks to the combined use of laminated wood and  
26 metal gudgeons, greater mechanical resistance of  
27 laminated pieces equalling or even exceeding that of  
28 metal pieces of equal weight. The use of laminated  
29 woods in the engineering and construction field has  
30 greatly expanded during the war. The American Army,  
for instance, has built hangars for its dirigible  
airships, which measure a thousand feet in length  
and the arches have spans of 237 feet with a height of



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1 155 feet; each hangar thus erected permitted a sav-  
2 ing of 2050 tons of steel. The navy erected immense  
3 laminated structures, such as giant dry-docks,  
4 wharves, jetties, break-waters, landings and invasion  
5 barges, etc. Numerous war industries have also  
6 made use of laminated wood for the construction of  
7 work shops, warehouses and assembly factories. It  
8 has also been used with no less success, in the con-  
9 struction of large stores, commercial stations and  
10 public buildings such as churches, schools, theatres,  
11 gymnasiums, etc. In engineering, laminated wood  
12 assembled with metal gudgeons, is now being used to  
13 advantage for the construction of bridges and pylons  
14 for antennae and electrical transmission lines, etc.  
15 Finally, in the future reconstruction plans of  
16 devastated countries, laminated woods will certainly  
17 play an important part in the rapid erection of  
18 thousands of prefabricated houses.

#### 17 IMPREGNATED WOODS.

18 Under this head are placed the improved woods  
19 obtained by treatment of the laminated or ordinary  
20 woods, generally in the autoclave, by the introduction  
21 therein of resins or substances that will make it  
22 heavier or proofed against humidity. The choice of  
23 the treatment naturally depends on the property or  
24 group of properties desired. Amongst the new methods  
25 for impregnation, let us mention the process "urea-  
26 dimethylolurea" which gives to the "transmuted" wood  
27 particularly precious properties, namely, increased  
28 hardness, resistance to fire, insects and destructive  
29 fungi. Remarkable resistance to humidity and greater  
30 facility for working it with the machine tools  
usually employed in wood working industries. Such  
an aggregate of qualities will render the transmuted



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1 wood extremely advantageous for the construction  
2 of  dwellings and the manufacture of furniture. Not  
3 only will it be possible to save fabulous sums under  
4 the guise of fire insurance premiums and maintenance  
5 costs, but the transmutation will permit the use  
6 of woods which up to now had not been used, such  
7 as aspen and birch and, so doing, the period of  
8 rotation of the forest will be considerably short-  
9 ened. This double advantage from the point of view  
10 of silviculture and forest protection deserves to  
11 be underlined.

#### 11 COMPREGNATED WOODS.

12 By impregnating wood, particularly rotary-cut  
13 veneer, with a synthetic resin, not completely  
14 polymerised and then compressing it between the  
15 heated plates of an hydraulic press, the poly-  
16 merisation of the resin takes place inside the wood  
17 itself. All the qualities mentioned above for the  
18 impregnated woods are found again in the com-  
19 pregnated woods in a much higher degree. Their  
20 density can be raised as high as 1.4, that is the  
21 density of the cellular membrane freed of all  
22 capillary system; moreover, their resistance to  
23 fire, mechanical, chemical, atmospheric and biological  
24 agents is perfect, so to speak. In one word, wood  
25 becomes a substitute for metal, and the uses that  
26 are awaiting it after the war, should at least be  
27 numerous and varied, not only for the manufacture of  
28 scratch proof table tops, various kinds of furniture  
29 and floorings, but also for the exterior finish of  
30 dwellings.

#### 29 COMPREGNATED PAPER.

30 By applying the same principle of compregnation  
to a variable number of sheets of paper superimposed



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1 and previously impregnated with a synthetic resin  
2 incompletely polymerised a compregnated paper is  
3 obtained. It generally has the appearance of a  
4 board of any desired thickness, always very hard,  
5 and possessing the excellent physical and chemical  
6 qualities of the compregnated products in addition  
7 to remarkable thermic and electrical resistance.

#### 7 MOULDED PLYWOODS.

8 This new product is produced by applying a rotary  
9 cut wood, coated with a synthetic adhesive on a  
10 negative mould having the desired shape. The assembly  
11 is then placed in a cellophane or rubber wrapping,  
12 in which a vacuum is then created, and finally the  
13 whole is submitted to cooking under high pressure in  
14 a heated autoclave in order to complete the resin-  
15 ification of the adhesive, forcing the plywood to  
16 adopt the shape of the mould. This process was used  
17 during the war to produce the shells of the "Fair-  
18 child" and "Mosquito" planes, which owe their  
19 suppleness, stability and speed to this marvelous  
20 forest product. In the post-war period this remark-  
21 able product will surely be in great demand for the  
22 manufacture of modern furniture, boats, railway cars,  
23 racing sail boats, very light and pliable canoes,  
24 automobile bodies, etc.

#### 23 PLASTIFIED FORESTRY BY - PRODUCTS.

24 In addition to the main types of the raw wood  
25 derivatives described above, the possibility exists  
26 of applying various plastification processes,  
27 modified to suit varying needs, to a full series of  
28 forest by-products, such as chips, saw-dust, barks,  
29 also the wood lignin contained in the residuary liquors  
30 of the chemical pulp mills. The qualities of these  
plastic compositions vary with the nature of the raw



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1 material and the process used, but they are in most  
 2 cases sufficiently interesting to justify great  
 3 hopes from the point of view of the possibilities  
 4 of these new products on the post-war market. There  
 5 is also a great opportunity to utilize economically  
 6 the enormous quantities of waste which now accumulate  
 7 on the forest ground and in the mechanical con-  
 8 version mills. The immediate advantages that will  
 9 follow from the point of view of silviculture,  
 10 protection and domestic economy, cannot be over-  
 11 emphasized.

12 We can no longer insist on the practical interest  
 13 offered by these new types of improved woods that  
 14 scientific research has added to the already con-  
 15 siderable arsenal of classical forest products, even  
 16 if their "romance" has only been outlined.

17 MECHANICAL CONVERSION.


18 But there is also the mechanical conversion  
 19 sphere that must be seriously considered on the re-  
 20 adaptation level. In addition to the general and  
 21 specialized sawing which could, if directed by experts,  
 22 bring prosperity to a good number of rural communities,  
 23 hundred of forest workers, using their remarkable  
 24 ability and their special knowledge of wood working,  
 25 could make in home shops or in small factories in  
 26 the forest villages a multitude of objects which we  
 27 now to our shame import from other countries. It is  
 28 not possible to detail here the imposing list that  
 29 comprises all those products from skis and snowshoes  
 30 to toothpicks, passing through the collection of  
 toys and trinkets, of hundreds of utensils of daily  
 use, of dozens of hardwood specialties, either for  
 the manufacture of furniture, tools, machinery,  
 scientific and technical instruments, automobiles,



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1 airplanes and other vehicles of transport, etc. But  
2 let us not encroach any longer in the field of the  
3 mechanical conversion specialist.

#### 4 CHEMICAL CONVERSION.

5 It is almost impossible to give adequate attention  
6 to the numerous products derived from the chemical  
7 conversion of wood, old and new, in the limited  
8 scope of this study which rather aims at showing  
9 them in the forest products field. Besides, the  
10 economic importance and the fascinating beauty of  
11 a large number of derivatives from wood cellulose  
12 are too well known and it will only be necessary to  
13 mention in passing: newsprint, boards and fancy  
14 papers, cellophane, artificial silks, in all their  
15 variety and splendour, explosives, lacquers,  
16 varnishes and paints, photo and cinematographic  
17 films, plastics of all forms and colours, the art-  
18 ificial bulks and fibres, etc. But there are new  
19 artificial processes of chemical utilization, less  
20 well known, which should be examined for their  
21 economic possibilities in the future.

21 It is known that saw-dust can be hydrolyzed  
22 into sugar then fermented into drinkable or in-  
23 dustrial alcohol, or can be used for the production  
24 of edible yeast. The first factory of this sort  
25 has been in operation in the United States since  
26 last summer; it produces four million gallons of  
27 alcohol annually from a daily output of 320 tons of  
28 saw-mill wastes. The alcohol thus produced will  
29 be specially used in the synthesis of rubber.

30 By means of catalytic and pyrolytic processes  
it is also possible to transform wood waste into  
high quality motor gasoline, light oils, Diesel



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1 motor fuel, heavy oils and lubricants, in short,  
2 in products similar to those now being extracted  
3 from petroleum or coal. That is a triumph of modern  
4 chemistry, for the millions of years necessary for  
5 natural carbonisation of vegetable matter can thus  
6 be reduced to a few hours or minutes. The economic  
7 possibility of these processes are still to be  
8 proved, but the fact is nevertheless interesting  
9 for this country, poor in petroleum and coal, but  
10 very wealthy in wood.

11 Another discovery recently made in Europe also  
12 deserves our attention. The problem is to cheaply  
13 transform saw-dust into cellulose fit for fodder,  
14 whose nutritive value can be compared to that of  
15 oats. It is known that in our part of the country  
16 farmers are forced to feed their milk stock with  
17 hay or other dry fodder for the six months or  
18 more of winter period. This generalized use of  
19 cellulose fodder would create not only an interest-  
20 ing outlet for the piles of saw-dust accumulating  
21 everywhere in our saw-mills but it would also free  
22 immense areas of arable land for the cultivation  
23 of crops that would pay more than hay.

24 The scope of this study does not permit me to  
25 go into the details of numerous other processes  
26 which nevertheless are not without interest. Let  
27 us mention as we go along, the products of wood  
28 distillation, the derivatives of catalytic hydrogenation,  
29 the products to be recuperated from bisulfite  
30 residual waters, the lignine based plastics, the  
chemical derivatives that can possibly be drawn from  
saw-dust, barks, etc. It is less a question of  
making here a complete list of everything that can  
be made rather than to insist on the fact that our



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1 wood can from now on be used as a basic raw  
2 material on the same ground as coal and petroleum.  
3 It can and should become our raw material of pre-  
4 ference.

5

6 (Translated from an original paper in  
7 French, in the magazine "Relations".)

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APPENDIX IX

Quebec, October 5, 1944

Our Forests in Relation to our Social Existence.

(Notes prepared by Mr. J. O. Wilson for discussion at the First Provincial Congress of the Quebec Forestry Association, held in the Chateau Frontenac, Quebec, October 3rd-5th, 1944.)

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Since the turn of the century there has been a growing recognition of the importance of our forests in relation to the whole economic and social structure of this Province.

We are now reaching the stage where persistent efforts are being made to place our forests under sound long-term forest management, with a view to making full use of all the forest has to offer for the benefit of our whole population.

Though our attention naturally tends to focus on the commercial uses of our forests, we are constantly reminded by those concerned (forester engineers and government officials) that the forests have other uses which are just as important to our national existence as the obvious benefit we derive from our forests through our forest industries.

The newer conception of forest conservation is the intelligent use of all the resources of the forest for the benefit of the whole community and the trend of thought is now in the direction of assessing the social values associated with the full and proper use of our forests. These social considerations are of paramount importance with financial considerations decidedly secondary.

This First Provincial Congress of the Quebec Forestry Association is very tangible evidence of



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1 this trend of thought, and of the accelerated pace  
2 at which we are now moving towards the full real-  
3 ization of the value of our most important natural  
4 resource - our forests.

5 It is my privilege today, jointly with our  
6 inspector general of forests, Mr. Ernest Menard,  
7 to introduce the subject "Our Forests in Relation  
8 to our Social Existence".

9 I think we all agree that the discussion of  
10 this subject is more important than listening to  
11 another thesis. Many able speeches have in the  
12 past been delivered on this subject, and there is a  
13 vast wealth of material accumulated in technical books  
14 and periodicals, and in the Statistical Departments  
15 of our Government offices.

16 I will therefore confine my remarks to a few  
17 absolute essentials.

18 In introducing this subject a brief glance over  
19 the history of land settlement along the St. Lawrence  
20 towards the Great Lakes and up the main tributaries  
21 will help us to realize how present attitudes towards  
22 agricultural land settlement and the forests have  
23 evolved.

24 The first phase - known as the Seignorial Phase  
25 deals with the arrival of the first Europeans. Their  
26 primary concern was to settle and form new communities,  
27 similar to those they had left in their old Homeland.  
28 These first arrivals found a belt of forest starting  
29 at waters edge and reaching back inland as far as the  
30 eye could see. Their first problem was to remove the  
forest from the land so they could build homes, form  
communities and till the soil to produce their meagre  
needs in the way of food and clothing. The forest  
was an obstacle to the seizure of the land and this



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1 primary reactions to the forest has persisted to this  
2 day.

3 This sentiment is expressed in the following  
4 slogans with early settlers and colonization societies:

5 "To get the land we must destroy the forest"

6 "Dans la guerre contre la Forêt, la Victoire  
7 depend du Moral des Pionniers".

8 What was needed for shelter and fuel was used.

9 The rest was burnt off to make way for the plough.

10 This phase lasted so long as there were agricultural  
11 lands available, in the immediate vicinity of the  
12 St. Lawrence and its main tributaries.

13 This search for land was led by the cure and the  
14 settler and was based on a philosophy of simplicity  
15 and spiritual satisfaction within the framework of  
16 a society dominated by Cure, Church and State.

17 The second phase was led by the lumberman in  
18 search of lumber for a growing home and foreign markets.  
19 As the lumbermen pushed their way up the main tribut-  
20 aries of the St. Lawrence in search of more and more  
21 lumber, the settler followed to grow food and provide  
22 seasonal labour in the lumber camps. This was the  
23 beginning of the present commercial materialistic  
24 phase of our advancing civilization.

25 (a) The first part of this period found the lumber-  
26 man and settler working in close co-operation.

27 There was apparently plenty of room for both,  
28 since the forests appeared to be inexhaustible.

29 (b) In the second part the lumberman began to supply  
30 foreign markets - England during the period  
of the Napoleonic wars beginning about 1800,  
and the markets of the United States just  
across the border to the south, beginning  
about 1850. The first part of this phase may



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1 referred to as the "Broad Axe" phase, when  
2 the square timbers of the pineries of Western  
3 Quebec and Eastern Ontario were so important  
4 in the economy of Eastern Canada. The second  
5 part was associated with the invention and  
6 use of steam navigation and the introduction  
7 of the sawmill. The demand for lumber increased  
8 as the industrial age unfolded. It was during  
9 this phase that the settler-lumberman antagonism  
10 reached its height and it is from this  
11 period that later generations inherited the  
12 ideas on which our present colonization policy  
13 is based.

14 We are particularly interested in the following  
15 points of view:

- 16 (a) First the idea that the settler was all import-  
17 and. The forest was regarded as a passing  
18 phase. The soil for agricultural purposes was  
19 regarded as the only secure foundation for  
20 expansion. This led to settlement on any kind  
21 of soil and to needless destruction of large  
22 areas of forest.
- 23 (b) The lumberman on the other hand, though he  
24 at first regarded the forest as inexhaustible,  
25 looked upon the lumber industry itself as a  
26 passing phase. Later, however, he came to  
27 realize that the forest could reproduce itself  
28 and that the lumber industry could be made  
29 permanent.
- 30 (c) These two points of view led to a race between  
the settler for land and the lumberman for the  
trees, before the settler could burn and des-  
troy them. Between them they cut, burnt and  
destroyed large areas of our best forest lands.



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1 This was the old fundamental clash between the  
2 two types of motivation for occupation of new countries.

3 (a) Exploitative to gain and plunder the natural  
4 resources.

5 (b) The desire to possess the land and on it  
6 build new societies.

7 Both elements have been present since Canada was  
8 first discovered. It is the conflict between these  
9 two elements which has decided our land and forest  
10 policies to date. It is only in very recent times that  
11 people are coming to realize the forest has a permanent  
12 place in our economy, but this fact has not yet produced  
13 a definite policy with regard to forest management and  
14 permanent forest labour.

15 When considering the problem of our forests in  
16 relation to our social existence, we are seeking to  
17 solve this old antagonism and to implement the policy  
18 of forest management for sustained yield and work in  
19 the forest as a "Way of Life" parallel and just as  
20 sound as life on the farm.

21 In the meantime, there were revolutionary social  
22 changes going on throughout the settled areas of this  
23 Province. Standards of living changed and pioneering  
24 has come to be regarded as of doubtful value when  
25 compared with the attractions of urban and even the  
26 more primitive rural existence. During the last two  
27 decades the process of industrialization has acceler-  
28 ated the march of our population from rural to urban  
29 areas.

30 In so far as logging operations are concerned, the  
conditions of work - living quarters and rates of pay -  
are far behind industrial standards. In times of  
prosperity it is difficult to find plenty of workmen  
to go into the forest even though rates of pay are



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1 raised and other advantages are freely offered. On  
2 the other hand, in times of depression there is a  
3 glut of workmen.

4 There is some truth in the contention often made  
5 that there are only two kinds of workmen in our  
6 forests at any time - the young men, strong in the  
7 back and weak in the head, who doesn't know any  
8 better. When he finds out, he doesn't come back.  
9 Then there is the older man, who can't help it -  
10 the forest is his last resort, where he can supple-  
11 ment his too meagre returns from a marginal farm,  
12 or supplement his income from fishing or casual work  
13 elsewhere.

14 We have been obsessed with false ideas with  
15 regard to our forests. The present substantial  
16 economic returns from our forest industries are  
17 only a beginning of still greater potentials in the  
18 near future.

19 We have regarded lumbering as temporary with  
20 farming everywhere as the ultimate use of our vast  
21 forested areas. Out of this conception has grown  
22 an idea which still persists - that the forests  
23 exist for the marginal farmer and the eleemosynary  
24 fisherman, and laterly for the chomeur.

25 About the time of confederation the politician  
26 began to take an increasing interest in this strife  
27 between the lumberman and the settler. Out of this  
28 situation he has constantly made political capital  
29 chiefly at the expense of our forest heritage. This  
30 sentiment was very aptly expressed by Senator Parent  
in 1903, when he gave expression to the following  
statement - "The settlement and opening up of our  
vacant lands and the consequent increase of our population,  
constitutes our chief aim. All our energies are direct-



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1 ed to that end, for from it comes the political in-  
2 fluence we now have and which we are to possess in  
3 future."

4 We have overlooked the real truth - that the  
5 forest can support substantial numbers of our  
6 population - based on a purely forest economy.

7 It is our particular concern here to examine the  
8 forest situation in order to see what our forests  
9 have to offer in the way of social advantages - a  
10 "Way of Life".

11 In order to facilitate discussion, I propose to  
12 introduce this subject under four main headings:

- 13 1. The extent and economic importance of our  
14 forest heritage.
- 15 2. Present labour conditions and statistics.
- 16 3. An indication of our future potentials and  
17 possibilities, associated with the proper  
18 development of our forests.
- 19 4. A concrete example of possibilities associated  
20 with the forest colonies on the north shore  
21 of the St. Lawrence.

22 THE EXTENT OF OUR FOREST HERITAGE.

23 The statistics set out in the Annual Report of  
24 Department of Lands and Forests, for year ending  
25 March 31, 1943, gives a clear picture of the vast  
26 areas of our forest lands. We usually confine our  
27 attention at present to what we have below the  
28 52nd parallel.

29 The forest land area is given as 26,300 sq. miles  
30 and this is at present held as follows:

Privately owned.....	26,580 sq.m
Federal Crown Lands.....	277 "
Timber limits.....	75,293 "



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1 Forest reserves of various kinds... 8,671 sq.mi.  
2 Vacant Crown Lands..... 184,479

3 Incidentally the privately-owned lots are made  
4 up as follows:

5 Large properties own 9,982 square miles; - lots  
6 of various kinds owned by 200,000 small properties,  
7 cover 12,498 square miles; - there are at the present  
8 time 4,100 square miles at the present time under  
location ticket.

9 We should note here the relatively small area  
10 cleared for agriculture: i.e., 22,000 square miles.

11 What are we doing with this vast area of valu-  
12 able natural resources?

13 For our present purposes we may answer this  
14 question as follows:

15 We are using our forests to supply raw material  
16 to our forest industries - for our tourist trade -  
for our power and for recreation.

17 We have never fully utilized all the resources  
18 of our forests. We are only now beginning to  
19 realize the enormous potentials associated with the  
20 full use of our forests. It is important for us  
21 now to learn how to use this heritage ourselves,  
22 instead of leaving it to others to exploit.

#### 23 THE ECONOMIC IMPORTANCE OF OUR FOREST RESOURCES.

24 (See Annual Report Dept. Lands and Forests - 1942-43).

25 The Pulp and Paper Industry with a capital  
26 investment of \$350,000,000 uses 4½ million cords  
27 of pulpwood and produces 45 million dollars worth  
28 of pulp, and 112 million dollars worth of paper and  
29 cardboard. A total production value of 157 million  
dollars.

30 This forest industry alone employs 25,500 work-  
men in its mills and pays salaries and wages amounting



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1 to \$33,300,000.

2 The lumber industry with a capital investment  
3 of 12½ million dollars produced over one billion  
4 board feet of lumber in 1942 and gave work to over  
5 19,000 workmen, paying salaries and wages amounting  
6 to seven million dollars.

7 Other industries using wood as their principal  
8 raw material employ over 14,000 workmen and produce  
9 goods with a total value of 53 million dollars.

10 Finally we must not overlook the Municipal,  
11 Provincial and Dominion revenues derived from our  
12 forests and forest industries.

13 In addition to the above salaries and wages paid  
14 to our forest workers, the forests and forest in-  
15 dustries of this Province pay substantial sums of  
16 money to the Municipalities and into the Provincial  
17 and Dominion Exchequers.

18 (a) In 1942-43 the direct revenue from the lands  
19 and fore of this Province was close to  
20 8 million dollars (rentals - stumpage - dues  
21 water - power sites, etc.).

22 (b) The Indirect revenue collected by the Province  
23 by way of taxes was probably 30 million dollars.

24 (c) The Dominion Exchequer collected still more,  
25 probably 40 million.

26 Evidently then the forests of this Province are  
27 not only the essential foundation of all our forest  
28 industries - our tourist trade and our sources of  
29 electric power - they are also the keystone of our  
30 whole economic structure.

It is of the utmost importance for us to secure  
the continuity of this asset by proper management.

The supply of raw material to our industries,  
the conservation and full use of our amenities and



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1 sources of water power, are of paramount import-  
2 ance in assuring the permanent well-being of the  
3 whole population of this Province.

4 THE NATURE OF OUR WOODS OPERATIONS.

5 Most of you are familiar with the general pattern  
6 of our logging operations.

7 We rely on farmers, fishermen and seasonal  
8 labour from other industries to supply the bulk of  
9 our present forest labour.

10 Our activities are confined almost exclusively  
11 to harvesting the virgin stands we find already  
12 grown on our forest areas. We do not spend any  
13 time or money on producing the forest crop.

14 The logging season usually starts with a small  
15 gang of experienced men who do the development work  
16 necessary to get into the forest, and provide shelter  
17 for men and horses during the operation and for the  
18 transportation of the wood out of the forest.

19 By late August or September the camps begin to  
20 fill up and cutting goes on till the snow is too  
21 deep for further efficient cutting.

22 In late December or early January the hauling  
23 starts and continues till March.

24 The drive is confined to the time of the break-  
25 up - from late April till early June. Floating may  
26 continue on the large rivers all summer.

27 Though there are some permanent workers - very  
28 few - the bulk of the men are seasonal. Usually men  
29 go in and out of the limits for each phase of the  
30 operation.

We should carefully note in passing that there  
is no reference to growing wood. The whole emphasis  
is on logging.



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1 NATURE OF EARNINGS AND WORKING CONDITIONS OF  
2 OUR FOREST LABOUR.

3 From the most recent statistics available for  
4 1941-42 we have the following:

5 For cutting and hauling the wood in the forests of  
6 Quebec, 92,070 workmen were employed.

7 A total of 4,773,710 man-days (say 16,000 man-  
8 years).

9 An average per workman of 53 days work.

10 The total salaries paid were \$16,039,693.60 gross  
11 (\$12,411,646.00 net).

12 Average income per workman - \$178.08 gross \$137.08 net

13 Average per day - 3.36 " 2.60 "

14 Average per month - 87.36 " 67.60 "

15 Average cut per day.....1.7 cords.

16 Average number of man-days spent at lumber  
17 camps.....31.4

18 DRIVING OPERATIONS.

19 It took 26,402 men to drive the wood - an average  
20 of 25.5 days per workman - a total of 673,251 man-days.

21 These 116,472 forest workers received gross  
22 salaries amounting to \$18,696,000 - or a net amount  
23 of \$14,566,000. after deduction for board.

24 To this should be added 4,106 contractors and sub-  
25 contractors, making a grand total of over 120,000  
26 workers for forest operations only.

27 We must add to those imposing figures the time  
28 spent in cutting, hauling and transporting wood from  
29 farmers' woodlots and colon lots, which was sold to  
30 forest industries and exported. These workmen received  
their remuneration from the direct sale of their  
forest produce, i.e. they did not work for wages.



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1 There is still a further substantial forest  
2 employment and payroll amount for all those workers  
3 and forest technicians who work for the Department  
4 of Lands and Forests, administering the enormous  
5 forest areas owned by the Crown, controlling the  
6 logging operations and protecting our forest from  
7 fire, insects and fungi.

8 Our forest protection services alone (Government  
9 and private) employ regularly throughout the fire  
10 season over 4,500 personnel, with many more on fire  
11 fighting duties. These protection services cost  
12 over one and a half million dollars in 1948.

#### 13 FUTURE POSSIBILITIES OF OUR FORESTS AND FOREST 14 INDUSTRIES.

15 It is very evident from the foregoing statistics  
16 that our forests are our prime natural resources  
17 and the keystone of our whole economic structure.  
18 Further, our forests are a renewable and potentially  
19 perpetual asset.

20 "Timber is a Crop" and the forest like the farm  
21 can be neglected and destroyed or cared for, protected  
22 and improved.

23 So far we have done very little in the direction  
24 of growing wood. We have found ample supplies of  
25 virgin timber ready grown, and our activities in the  
26 forest has been almost exclusively confined to cutting  
27 and removing this crop.

28 We have excellent logging organizations and have  
29 become highly skilled in the science of logging. But  
30 we have now reached the stage where we must start to  
grow wood - bring our forests under proper forest  
management so that our forests will continue to produce  
the wood we require for our forest industries, and so  
that the workers and communities dependent upon these



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1 forests and forest industries for a living will be  
2 assured of a stable and permanent foundation. In  
3 the same way we can manage our forests for re-  
4 creational values and the protection of our sources  
5 of water supply. We are only at the dawn of the  
6 potential uses of the produce of the forests. With  
7 such wealth and such a "Way of Life" offering, we  
8 should be able to develop something more worthwhile  
9 and secure than we have so far accomplished for  
10 our forest workers.

11 The potential wealth awaiting development and  
12 use in our forests should offer more stable em-  
13 ployment, better working conditions and a higher  
14 standard of living than is evident from the fore-  
15 going statistics.

16 Forest occupations contribute a "Way of Life"  
17 in their own right, and should not be made dependent  
18 on any other form, such as agriculture and fishing.  
19 It is time we realized this and started to re-  
20 organize our forest resources, placing our commercial  
21 forests on a sustained yield basis, offering a  
22 substantial number of our forest workers a permanent  
23 living in the forest with permanent family living  
24 quarters near their work.

25 We have to remember we are mainly competing on  
26 world markets. We can only stay on these markets by  
27 training our workmen to grow wood and harvest the  
28 mature timber efficiently. The first step in this  
29 direction is to keep the workmen continually employed  
30 in forest work - provide educational and vocational  
training facilities, offer prospects of permanent  
employment with stability and adequate recompense  
to support a proper standard of living - then we can  
hope not only to stay in the markets we already on-



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1 Joy - but to extend our participation in the growing  
2 markets of the World.

3 Times have changed rapidly in the last two decades.  
4 We are becoming a predominantly industrial province.  
5 To keep pace with these changes we must offer our  
6 forest workers something more than we have been able  
7 to offer them in the past.

8 In the old days forest work for lumber and work  
9 at the sawmill could be easily integrated with farming  
10 and fishing. The pulp and paper mills however offer  
11 no work at their mills for the forest workers. On  
12 the other hand, the enormously increased demands for  
13 wood call for many more workers in the forests and at  
14 the same time increase the need for more effective  
15 forest management.

16 We need a new deal for our forests. Have we the  
17 vision to make the necessary long term plans calling  
18 for the immediate intensive forest management of  
19 our commercial forests to assure adequate stocking,  
20 continuous growth and improved yield. Have we the  
21 courage to undertake this work ourselves, or must a  
22 we continue to lease our forests to others, only  
23 reserving to our forest workers the 'mud', 'sweat'  
24 and tears, at present associated with the exploitation  
25 of our forest heritage for others.

26 We have still to learn how to manage our forests  
27 for sustained yield. We have still to educate and  
28 train our forest workers not only to cut and utilize  
29 the produce of the forest, but also to grow wood.  
30 And still more important, we must provide liberally  
for the education and training of the necessary forest  
engineers and logging engineers, forest research workers  
and subsidiary technicians so that we may build up  
our own organizations to grow wood and convert the



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1 numerous products of the forest at maturity to the  
2 fullest and best possible uses.

3 By extending our utilization to use all of the  
4 products of the forest and by constantly seeking new  
5 markets for the favourable disposal of these products,  
6 we can provide a "Way of Life", and remunerative  
7 employment for our ever growing rural population.

8 It has been said that "A People without Vision  
9 shall Perish". We have the resources, we have the  
10 workers. Don't let us perish for want of vision  
11 and courage to work out our own salvation.

12 What is the vision we should have of our future  
13 forest operations?

14 1. We should foresee in the near future a time when  
15 the farmers' woodlots will be properly managed and  
16 will yield a steady and continuous supply of fuel,  
17 material for use on the farm, wood of various kinds  
18 for local industries and pulpwood for our pulp and  
19 paper mills and saw mills.

20 2. We should visualize the Rehabilitation of those  
21 colonies which have been founded on marginal forest  
22 lands and which are at present being subsidized to  
23 make certain that the forest crop on the lots will  
24 be utterly destroyed and even the roots of the trees  
25 torn out so that the soil will be destroyed also. We  
26 should visualize the saving and placing under proper  
27 forest management the trees which remain on the lots,  
28 and these colonies placed on a sound wood economy,  
29 by the provision of sufficient forest reserves from  
30 neighbouring forest areas. We should plan to have  
these colonies worked on a co-operative basis and  
on a sound sustained yield forest management plan.

3. Finally, we should foresee the future forest  
worker settled in the forest with his family near



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be clearly documented and verified. The text continues to describe the various methods used to collect and analyze data, highlighting the need for consistency and precision in the reporting process.

In the second section, the author details the specific procedures followed during the data collection phase. This includes the use of standardized forms and the implementation of quality control measures to ensure the reliability of the information gathered. The importance of regular audits and cross-checking of records is also mentioned.

The third part of the document focuses on the analysis and interpretation of the collected data. It explains how statistical methods are applied to identify trends and patterns, and how these findings are used to inform decision-making. The author notes that the results of the analysis should be presented in a clear and concise manner, using appropriate visual aids such as charts and graphs.

Finally, the document concludes with a summary of the key findings and a discussion of the implications of the research. It stresses the need for ongoing monitoring and evaluation to ensure that the data remains relevant and useful over time. The author also provides recommendations for future research and improvements to the current reporting system.

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1 permanent work, with the opportunity to work out his  
2 own salvation in his own way. By co-operative par-  
3 ticipation in the proper management and utilization  
4 of an adequate forest reserve, and with additional  
5 opportunities of supplementing his income for a growing  
6 family by forest work of various kinds in the neighbour-  
ing Crown forests.

7 We say the forests belong to the people. We have  
8 a duty to make this boast actual, by teaching the people  
9 how to manage their forests and how to turn the mature  
10 produce into cash, to provide a standard of living in  
11 keeping with the potential wealth of our greatest natural  
12 asset. So far we have neglected this potential. We  
13 should make use of postwar reconstruction planning, to  
14 change the present system of cashing in on our forests  
15 and plan to manage them properly for sustained and im-  
16 proved production, and teach our people how to harvest  
17 and dispose of the produce of these forests to the best  
advantage.

18 If we have the vision and courage, we can through  
19 proper forest management enter into full possession of  
20 our main natural resources and develop full use of it.  
21 The forest colony is the foundation of this solution.

22 Suggested Method of Organizing a Forest Colony  
on the North Shore of the St. Lawrence River.

23 We should emphasize at the outset that there is  
24 no one master pattern for the solution of the problem  
25 of forest colonies. It will take us a number of years  
26 to work out the most efficient organization for the  
27 various conditions in different districts throughout  
28 the Province. We can perhaps employ our time here most  
profitably by considering a concrete instance.

29 From the statistics already quoted it is obvious  
30 the forest can offer remunerations and permanent work to  
many individuals, and at the same time forest products





1 yield sufficient returns to pay for the cost of manage-  
2 ment and sustain the workmen on a basis at least as  
3 favourable as our best small farms.

4 In order to facilitate discussion, I have worked  
5 out what I think can be done on any watershed on the  
6 north shore of the St. Lawrence River.

7 Let us consider one of the many rivers on the  
8 north shore draining say 1,000 square miles of forest  
9 land.

10 Assuming such a forest area has an annual growth  
11 of .2 cords per acre per annum. It will easily support  
12 an annual cut of 100,000 cords per annum in perpetuity.

13 It is proposed to bring this area under sustained  
14 yield forest management and to operate it primarily to  
15 supply pulpwood for a pulp and paper mill. There will  
16 be subsidiary products which will be used to foster small  
17 forest industries.

18 From experience already gained in this province  
19 it is easy to calculate the number of man-days required  
20 per year to cut, haul and drive 100,000 cords per annum  
21 and to carry out logging development work.

22 For forest management work we have drawn an ex-  
23 perience elsewhere (Sweden and Finland).

24 Finally, by spreading this work over the whole  
25 year we can see what we have to offer in the way of  
26 permanent and seasonal employment.

27 The results are shown on this summary sheet and  
28 on this chart. All this work calls for a total of  
29 107,500 man-days, divided by occupation as follows:  
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1	<u>Occupation</u>	<u>Permanent Man-days</u>	<u>Seasonal Man-days</u>	<u>TOTAL Man-days</u>
2	Drive	9,500	500	10,000
3	Cut	29,500	20,500	50,000
4	Haul	12,000	8,000	20,000
5	Sylviculture	4,500	7,500	12,000
6	Improvements	2,250	1,500	3,750
7	Maintenance	3,500	-	3,500
8	Firewood, logs, etc.	8,250	-	8,250
		<u>69,300</u>	<u>38,000</u>	<u>107,300</u>
9	<u>No. Men Employed By Months.</u>	<u>Permanent Men</u>	<u>Seasonal Men</u>	<u>TOTAL</u>
11	January	250	150	400
12	February	250	20	270
13	March	140	-	140
14	April	140	-	140
15	May	250	-	250
16	June	250	100	350
17	July	250	100	350
18	August	250	100	350
19	September	250	180	430
20	October	250	310	560
21	November	250	310	560
21	December	<u>250</u>	<u>250</u>	<u>500</u>
		<u>250</u>	<u>310</u>	<u>560</u>

22 Now you will notice -

23 A. 250 of the men work all the year round and these  
24 will be the supporters or heads of 250 families. They  
25 will work a twenty-five day month, ten hours per day.

26 B. Provision is made for seasonal workers in areas  
27 where they are plentiful - by cutting down on permanent  
28 workers we can provide for more seasonal workers and so  
29 adapt ourselves to the present social structure (later  
30 no doubt families of seasonal workers will want to leave  
marginal farms and develop colonies for forest colonies.)



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1 It is proposed to locate ten (10 communities or  
2 colonies at strategic points on the main roads - 25  
3 families will be located in each colony.

4 For each community there will be a forest reserve  
5 sufficient to yield a volume of pulpwood, which can  
6 when sold 'driven' in the river provide each family  
7 with an annual income of say \$1200.00 per annum. Thus,  
8 assuming pulpwood is selling at \$6.00 per cord 'driven' -  
9 each family cutting 200 cords per annum would have a  
10 basic income of \$1200.00. To produce 200 cords, each  
11 family will need 1,000 acres of forest land.

12 Assuming each family would have two square miles  
13 of forest, each reserve would be 50 square miles and  
14 this block would be planned and controlled by a resident  
15 forest engineer, responsible for the working plan, who  
16 would indicate what could be cut each year. The block  
17 would be worked on a co-operative basis, with each worker  
18 getting credit for the wood he cuts, hauls and drives.

19 Ten (10) colonies with a reserve of 50 square miles  
20 each takes a maximum of 500 square miles. The balance  
21 of the limit consisting of outlying areas difficult to  
22 organize would be operated by the limit holder and the  
23 forest colonist would have the opportunity of working  
24 for the limit holder if he wished to do so. This is a  
25 potential reserve which will serve to satisfy family  
26 expansion of the first settlers.

27 Season labour would be brought in, but some would  
28 eventually be the sons and relatives of the forest  
29 colonists.

30 All would have the opportunity of working on forest  
management, development and maintenance projects, so  
that as families increase, income potential is always  
sufficient.

This is a very brief and sketchy idea of the basic



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1 principle, but this basis certainly offers plenty of  
2 possibilities.

3 There are many difficulties, such as:-

- 4 (a) We will have to overcome the fire hazard
- 5 (b) Can we reconcile this with the moral and  
6 social community standards demanded by  
7 the Church and State
- 8 (c) How can we adjust earnings in times of  
9 depression
- 10 (d) What of the limit holder?
- 11 (e) How will we provide Church, school and  
12 community buildings for each colony -  
13 or can we centralize by transportation  
14 facilities.

15 We have to bear in mind that ..

- 16 (a) Times have changed. We must attract the  
17 forest workers by offering them a real  
18 interest in the forest.
- 19 (b) Social values are now of paramount importance
- 20 (c) Business and gain have to be reconciled to  
21 this fundamental
- 22 (d) The radio and transportation have revolution-  
23 ized living conditions in the remotest places -  
24 There are no longer pioneering conditions
- 25 (e) Woods management calls for full time resident  
26 workers.

27 But with vision and courage we can solve these problem-

#### 28 Statistics for Use in Discussion of Forest Colonies.

29 The following statistics with regard to the poten-  
30 tial sustaining capacity of land of various types is  
perhaps of interest at this stage in our discussion.

The average citizen of the world lives on what  
can be produced on two (2) acres of land. Many citizens  
have to live on less than one (1) acre.

In Great Britain experience has shown that -

10 acres of wheat will support ten (10) persons.

10 acres of potatoes will support 42 persons.

1 acre of green land will support 1 person.

There is a similar factor for forests - which  
obviously varies with the rate of growth -



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1 In certain areas of the United States of America  
2 it takes 250 acres of forest land per family - south of  
3 Sweden - 440 acres - north of Sweden - 1400 acres. The  
4 factor we have used for Quebec is 2 sq. miles, or 1280  
5 acres.

6 In our northern forests we should start with a  
7 reserve of between two square miles of forests for each  
8 family. As these acres are brought under management,  
9 the production per acre will no doubt be increased, but  
10 we must bear in mind that the original colony will also  
increase - we hope so anyway.

11 We cannot emphasize too strongly that there must  
12 be no confusion between the idea of a forest colony and  
13 colonization as developed up to the present day. The  
14 forest colony is based upon the conception that the  
15 forest will provide a complete living for the forest  
16 colonist. He will not need to keep pigs, hens, or to  
17 grow any food, but if he likes to do so that will no  
18 doubt add to his standard of living and increase the  
19 stability, but will not be taken into account when setting  
up the financial standards for these colonies.

20 As forest colonies are developed, there is no doubt  
21 much can be done to solve the problem of marginal farms  
22 and marginal colonies. In other words we should be able  
23 to exchange these social liabilities for assets in the  
24 shape of new forest colonies. Formation of these forest  
25 colonies will take time so that the present social struc-  
26 ture will not be unduly disrupted. As seasonal workers  
27 from present marginal farms and derelict colonies are  
absorbed, the demand for seasonal workers will decrease.

#### 28 EDUCATION, TRAINING AND RESEARCH

29 We are not prepared for this development,

30 There are not sufficient trained technicians  
available.



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1 We have had no experience in building up the  
2 necessary organization and there are no trained workmen.

3 This, however, does not need to discourage us.  
4 It will be slow unfolding this development, but it will  
5 take us all our time to be in readiness by the time we  
6 can make the necessary changes in the public outlook.

7 Our knowledge of local forest areas is limited.  
8 We need research in these areas, but as yet we have not  
9 got the research workers.

10 All this brings us back to a consideration of what  
11 we should advocate in the way of providing immediate  
12 facilities on an adequate scale for forest education,  
13 training and research.

- 14 1. We need many Elementary Forest Schools, where  
15 wood craft and logging techniques can be taught  
16 in the local areas.
- 17 2. We need Intermediate Woods Technical Schools,  
18 similar to the one at Duchesnay. I would suggest  
19 one for each forest district, eventually eight  
20 or nine.

21 Finally, we need more accommodation at our school  
22 for foresters at Laval. We should be turning out fifty  
23 qualified forest engineers every year. Based on a four  
24 year course, this will call for a total accommodation  
25 for something like 250 students.

- 26 3. The teaching staff should be suitably increased  
27 and professors and students alike should be given  
28 a chance by providing for full time professors  
29 and liberal scholarships for the students.
- 30 4. We also need an experimental forest area of suit-  
able size where we can do research work, carry out  
experience on a commercial scale and provide  
demonstration areas for the general public, lot  
owners and forest colonies.





1 5. Propaganda:

- 2 Public Education
- 3 Rural Education, etc.

4 Economy of the Forest

5 The forest colony on its materialistic side must be  
6 based upon the economy of the forest.

7 Our various products at the present time find  
8 their chief outlet on World Markets and although we  
9 must look to a future when local demands will increase,  
10 world markets will always predominate. We can only keep  
11 our place on these world markets by efficiency.

12 We maintain that the forest colony can be taught  
13 how to operate efficiently and can be organized on a  
14 forest co-operative basis to largely replace our present  
15 system of forest exploitation.

16 We should not neglect the need for forest propa-  
17 ganda. Little is known about our forests and their  
18 tremendous importance to our whole economic structure.  
19 The general public do not realize they own the forests  
20 and that it is their responsibility to see that they  
21 are properly managed and made use of to the fullest ex-  
22 tent for the benefit of the whole community.

23 Religious Basis

24 Though we tend to stress the materialistic side  
25 of this problem, we do not for one moment forget that  
26 there are other values which to us at least are even  
27 more important than purely materialistic consideration.  
28 We constantly hear idealistic declarations stressing  
29 the fact that social considerations are of paramount  
30 importance. These social considerations of course  
being based upon Christian principles.

We have however reached that stage of civilization  
when a real effort is being made to reconcile the



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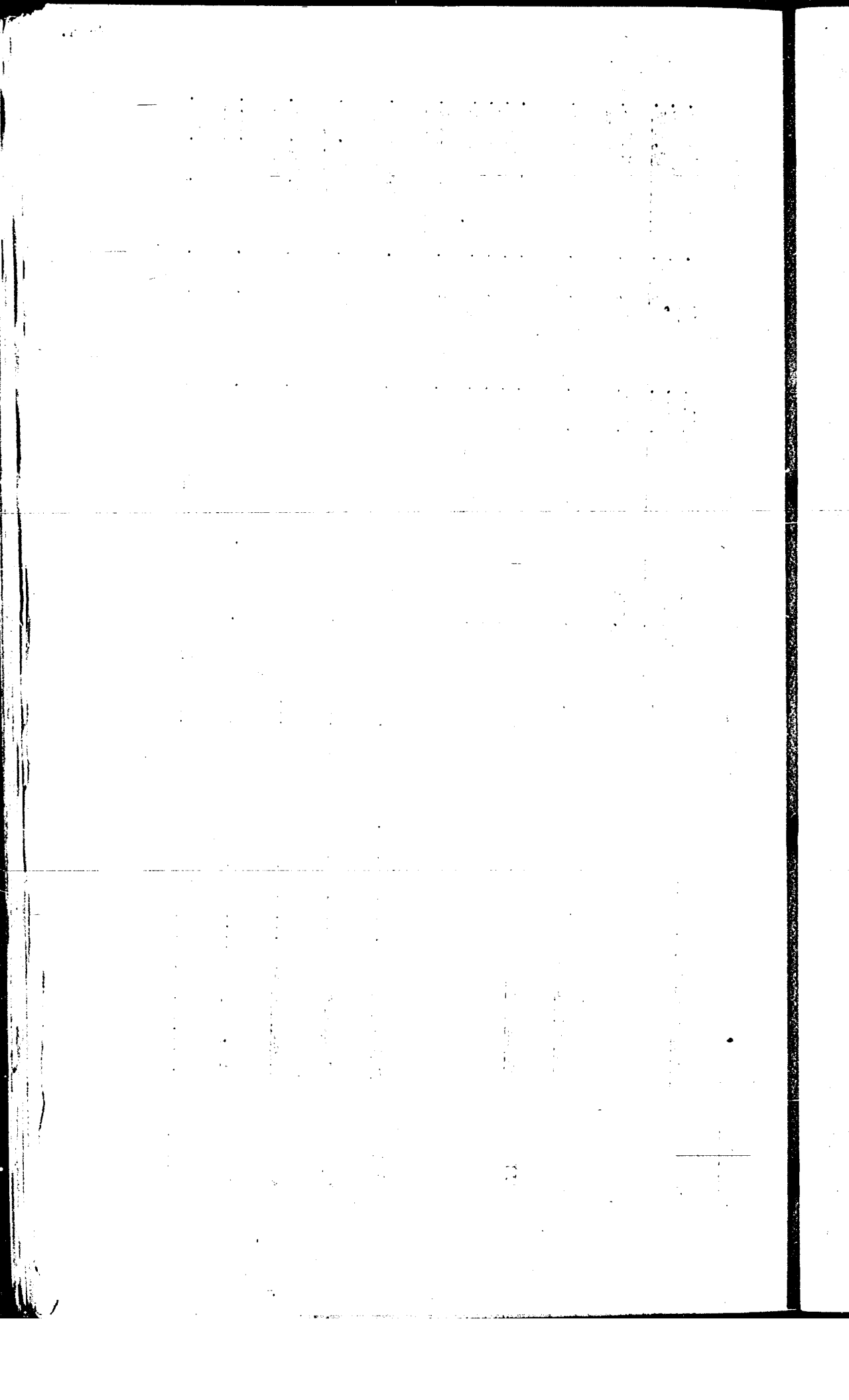


1 materialistic as expressed [redacted] standards of  
2 living, with the old conception of simplicity and  
3 spiritual satisfaction. In no other phase of our  
4 provincial development have we such an opportunity  
5 of reconciling these two conceptions.

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APPENDIX II

1  
2 Memorandum for the Royal Commission on Veterans'  
3 Qualifications presented at a meeting of the Com-  
4 mission under the chairmanship of Lieutenant-  
5 Colonel Wilfrid Bovey, O.B.E., at St-Hyacinthe,  
6 on February 11 and 12, 1946, by Mr. Stephane  
7 Bolly, District Superintendent of the Veterans'  
8 Land Act for the Province of Quebec.

9  
10 The Veterans' Land Act, 1942 provides for the re-  
11 habilitation in civil life of veterans who wish to be es-  
12 tablished in rural centres to operate a farm on a full  
13 time basis, or to simply live there while earning a liv-  
14 ing through industrial employment or drawing an income  
15 coming from other than agricultural sources.

16 For that purpose the Act provides for four distinct  
17 ways of settlement and allows the government to absorb  
18 an important portion of each establishment through a con-  
19 ditional grant. The four forms of establishments are the  
20 following:

- 21 a) Full-time farming
- 22 b) Establishment on small-holdings
- 23 c) Commercial fishing
- 24 d) Establishment on Crown lands.

25 The government must make sure that each applicant  
26 is fully qualified to be established in the manner he  
27 has chosen, and asks him to make a down payment cover-  
28 ing one-tenth of the cost of land, buildings and per-  
29 manent improvements when he applies for assistance.

30 We believe that 15,000 veterans will avail them-  
selves of the benefits offered by the Veterans' Land Act  
and that applications will come within the following  
breakdown of percentage for each form of establish-  
ment.







1	Full Time Farming	3,000	-	20%
2	Small Holdings	10,000	-	66%
3	Commercial Fishing	1,000	-	7%
4	Crown land settlement	1,000	-	7%

5 For administrative purposes, the province of Quebec  
6 has been divided into three regional offices, Montreal,  
7 Quebec and Sherbrooke, and since the Act has been in force  
8 in this province, that is, since the fall of 1944 our  
9 Regional Advisory Committees have studied 1,666 of the  
10 2,218 applications received to date, or 75 per cent of all  
11 applications received.

12 Among the 1,666 cases studied by our committees,  
13 483 candidates wished to be established as full time farm-  
14 ers, or 29 per cent of the total, and we have qualified  
15 240 of them, or 57 per cent of that number.

16 About establishment on small-holdings, 1234 candi-  
17 dates have been interviewed by the Committees, that is:  
18 75 per cent of the total, and we qualified 75 per cent of  
19 them, or 62 per cent.

20 Eight out of nine candidates for a commercial  
21 fishing establishment will benefit by the advantages offer-  
22 ed by the Act.

23 To summarize, of 1,666 veterans interviewed by  
24 the Committees 1,008 - 60% have been qualified under the  
25 Act, and 661 candidates - 40% have been refused qualifi-  
26 cation. However, a certain number of those cases will  
27 be reconsidered. For instance, we directed forty-eight  
28 applicants to farms where they will complete their agri-  
29 cultural experience and will, in the time, be granted  
30 benefits No. 3 during their apprenticeship.



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ANALYSIS OF APPLICATIONS FOR QUALIFICATION  
RECEIVED in the PROVINCE OF QUEBEC

	<u>Montreal</u>	<u>Quebec</u>	<u>Sherbrooke</u>	<u>Total</u>
Applications received	1289	561	366	2216
Applications dealt with (a) Original	1075	303	233	1611
(b) Subsequent	25	2	30	55
Qualified without training	658	214	152	1024
Qualified after training				
(a) farms	-	-	-	-
(b) commercial fishing	-	-	-	-
Total qualified				
(a) full time farming	101	71	68	240
(b) small-holdings	537	136	84	757
(c) commercial fishing	-	8	-	8
Disqualified without training	128	52	59	239
Disqualified after training				
(a) farms	-	1	-	1
(b) commercial fishing	-	-	-	-
In abeyance	332	37	52	421
Competency certificates cancelled	31	1	8	50
Recommended for training				
(a) farms	22	7	2	31
(b) commercial fishing	-	-	-	-
Being trained				
(a) farms	7	4	3	14
(b) commercial fishing	-	-	-	-

The purpose of the Committees' meetings is to study the individual qualifications of each veteran, to determine the value of any technical training acquired and to reconsider the certificates of competency issued by the Armed Forces.

Though some of the technical training acquired by veterans might be of great use to establish them as full time farmers, we must not forget that a good farmer must possess special qualifications.

We use a system of points to determine the natural disposition of the candidates. Here is a detail of that system:



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1	Age	10 points
2	Health	10 "
3	Experience or employment	15 "
4	Education	10 "
5	Financial resources	10 "
6	Personality and character	10 "
7	Service	5 "
8	Wife's personality	10 "
9	Suitability of wife to live in a rural centre	15 "
10	Number of children	5 "

To be qualified, the applicant must get 60% of the total.

12) AGE - 10 points

Age is of primary importance. Indeed, an old person could not perform the hard task of operating a farm. Furthermore, an applicant of advanced age would have to repay his loan within a limited period of time say ten to fifteen years, instead of twenty-five years. The annual repayment amounts would therefore be heavier. Generally speaking, we do not favour the issue of qualification certificates for full time farming to applicants over forty-six years of age. The mean age of applicants wishing to be full time farmers is thirty-four, while it is thirty-two for those who wish to be established on small holdings. The ideal age would be from 25 to 30 years old.

24) HEALTH - 10 points

A farmer will succeed if he is in good health and robust. A great number of ex-servicemen are being refused a qualification certificate because they are not sturdy enough to perform this hard task. Some of the candidates, though experienced in agriculture, cannot be qualified on account of disabilities incurred during the war.



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1 **3) EXPERIENCE - 15 points**

2 In most cases, to qualify unexperienced applicants  
3 would mean failure in our plans and in their establish-  
4 ment, and would most certainly deprive them of obtaining  
5 benefits for other purposes.

6 However, the Act allows us to complete the agri-  
7 cultural experience of those who have been connected with  
8 farming before, but who lack the full qualification nec-  
9 essary for us to issue a certificate to them.

10 We possess three ways of supplying veterans with  
11 additional experience in agriculture:

- 12 a) We may place them under training with practi-  
13 cal and successful farmers;
- 14 b) We may rent them one of our farms under the  
15 supervision of one of our agronomists;
- 16 c) We may send them to some agricultural schools  
17 where they will be trained theoretically and  
18 practically.

19 During their training, they will be entitled to  
20 receive benefits No. 3 (Apprenticeship benefits), as pro-  
21 vided for them by the Rehabilitation Act.

22 **4) EDUCATION - 10 points**

23 Education, though of lesser importance to the full  
24 time farmer, nevertheless contributes to the success of  
25 his enterprise.

26 According to a survey of applications received,  
27 the average year in which candidates for full time farm-  
28 ing have completed their school education is the sixth  
29 grade, while the average year for small-holding applic-  
30 ants is the tenth grade (primary school).

**5) FINANCIAL RESOURCES - 10 points**

The Veterans' Land Act stipulates that any veteran  
applying for assistance must pay cash 10 per cent of the  
amount he wishes to borrow from us.

According to a survey of files, the average of



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1 savings for the full-time farming applicants if \$551 per  
2 applicant, while it is \$970 for small-holding candid-  
3 ates. These savings are hardly sufficient to enable them  
4 to make the 10 per cent down payment. Though under the  
5 Act a sum of \$1,200 is given free for the purchase of  
6 livestock and equipment, it is almost impossible for a  
7 settler to buy all the farm equipment necessary with  
8 that amount, and he should therefore have a little more  
9 savings. According to our point of view, a sum of  
10 \$1,000 would not be too great. However, we can prevent  
11 this difficulty by renting one of our farms to a veteran,  
12 and by making him pay only for taxes and interest on  
13 the invested capital. This procedure will, in the long  
14 run, help establishing many veterans who otherwise would  
15 not have enough savings. While being placed on that  
16 farm, they will also be entitled to draw living allow-  
17 ance benefits.

18 **6) PERSONALITY AND CHARACTER - 10 points**

19 A successful farmer is one who possesses many moral  
20 and physical qualities. Let us mention, among other,  
21 courage in face of temporary failure, patience, co-  
22 operation with neighbours providing mutual help, and  
23 sobriety that will prevent him from scattering away the  
24 profits of his enterprise.

25 **7) RECORD OF SERVICE - 5 points**

26 Generally speaking, bad soldiers do not become  
27 good citizens, and a bad citizen seldom turns out to be  
28 a good farmer. Members of Advisory Committees have to  
29 get some information respecting an applicant's record  
30 of service and use their own judgment in deciding  
whether he will fit in our rehabilitation scheme.

**8) WIFE'S PERSONALITY - 10 points**

An applicant's wife must accompany her husband



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1 when he appears before the Committee, for her part in  
2 the organization of the farm is of first importance. A  
3 farmer's wife, like her husband, must be strong and be  
4 able to help him constantly whether in the home or in  
5 the field. Furthermore, in a few cases, she must be  
6 educated well enough to make up for her husband's lack  
7 of education.

8 9) SUITABILITY OF THE WIFE TO LIVE IN  
9 A RURAL CENTRE - 15 points

10 Many wives cannot stand country life, and their  
11 unsuitability to adjust themselves to it can make a far-  
12 mer finally leave his land and lose the profit of years  
13 of hard work.

14 10) NUMBER OF CHILDREN - 5 points

15 A farmer's children are always a big help on a  
16 farm. His sons can do part of the field work while his  
17 daughters lend a hand to their mother in the keeping of  
18 the home.

19 The following tables will give you an idea of the  
20 average age, savings, and last year in school of 100  
21 veterans who have applied for establishment under the  
22 Act.

23 Full Time Farming applicants:

<u>OFFICE</u>	<u>Age</u>	<u>Education</u>	<u>Savings</u>
Montreal	34	7th grade	\$ 680.00
Quebec	34	5th grade	541.00
Sherbrooke	34	7th grade	483.00
Average	34	6th grade	551.00

26 Small-holding Applicants:

<u>Office</u>	<u>Age</u>	<u>Education</u>	<u>Savings</u>	<u>Annual Income</u>
Montreal	33	10th grade	\$ 952.00	\$ 2060.00
Quebec	33	10th grade	1037.00	2100.00
Sherbrooke	30	9th grade	922.00	1600.00
Average	32	10th grade	970.00	1920.00



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1           As a conclusion of this survey, may I say that we  
2 had to refuse a qualification certificate to 240 appli-  
3 cants, and to put in abeyance the issue of 421 certi-  
4 ficates for other applicants, which makes a total of  
5 661 final or temporary refusals, or 40 per cent of all  
6 applications.

7           The question is: what are we going to do with those  
8 ex-servicemen who cannot profit by the Veterans' Land  
9 Act.

10           Those persons have spent a good part of their life  
11 in the country, and they want to live there; if we can-  
12 not help them, they will come to the cities to live  
13 there, will not be able to find any employment, and will  
14 probably become dependents of the government.

15           We believe that the movement of regeneration started  
16 by the leaders of our province in connection with rural  
17 industry could solve this problem and help to the rehab-  
18 ilitation of veterans.

19           Years ago the Quebec village was a social cell  
20 which could live by itself. There you could find a black-  
21 smith, a wheelwright, a carpenter, a bricklayer, a tan-  
22 ner, a butter-man, a cheese-maker, a shoemaker, a saddler,  
23 a winnower, a weaver, etc., etc. Today, those handi-  
24 craftsmen have almost all disappeared from the village,  
25 to the prejudice of the social balance of the parish,  
26 which sees each day another one of its sons or daughters  
27 leave the native place to go to the city, attracted by  
28 the false allurements of high wages in the manufactures.  
29 That is what is going to happen to each of those veter-  
30 ans, to those whom we cannot establish as full time farm-  
ers, if we do not find a plan to help them.

          We therefore take the liberty of recommending to  
the leaders of our society the creation of a body whose  
exclusive task would be to form, by some appropriate



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1 courses and by practical apprenticeship, some qualified  
2 artisans capable of reestablishing those lost trades in  
3 our Quebec county.

4 We believe that this formation should bear upon  
5 the following arts and trades:

- 6 1 - Butter-men
- 7 2 - Cheese-makers
- 8 3 - Canners
- 9 4 - Butchers
- 10 5 - Bakers
- 11 6 - Wheelwrights
- 12 7 - Blacksmiths
- 13 8 - Timmen
- 14 9 - Ornamental iron work artisans
- 15 10 - Electricians
- 16 11 - Carpenters
- 17 12 - Cabinet-makers
- 18 13 - Wood carvers
- 19 14 - Bricklayers
- 20 15 - Brick-makers
- 21 16 - Potters
- 22 17 - Shoemakers
- 23 18 - Saddlers
- 24 19 - Tanners
- 25 20 - Basket-makers
- 26 21 - Weavers
- 27 22 - Agricultural mechanics
- 28 23 - Farm machinery salesmen
- 29 24 - People's Bank managers
- 30 25 - Cooperative's managers

17 We feel sure that thanks to this influxion of fresh  
18 blood, we will see domestic arts get popular again in our  
19 province. Furthermore, while reestablishing the econom-  
20 ical and social stability of the parish, we will contri-  
21 bute to the rehabilitation of this 40 per cent of veter-  
22 ans who, finally given a means of regular income through  
23 their trade or art, will now be able to benefit by the  
24 advantages offered by the Act and be established on  
25 small-holdings, the second form of establishment under  
26 the Act.

26 Thanks to this plan, we shall realize that aim of  
27 every one of us, that is: to rehabilitate every veteran  
28 who wants to participate in the benefits of the Veterans'  
29 Land Act.



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APPENDIX XIIIBrief on the Creation of Parks as Post-War Projects

L. A. Richard,  
Deputy Minister of  
Lands and Forests.

Queensland is one of the provinces of Australia whose surface is less than that of the Province of Quebec, whose population is only a third of ours, whose resources are inferior to ours and who have not the advantage that we possess of having in our immediate neighbourhood a population of 130,000,000 people.

But, the province of Queensland possesses ninety-five parks the majority of which have been made in times of depression or unemployment. All these parks are not of great extent. That is not necessary. But they have all been chosen with care and they contain most beautiful scenery or interesting natural phenomena.

There is an example that surely ought to inspire us in the province of Quebec for the period following the end of the war.

Parks have become one of the necessities of modern life. With the transportation facilities which we now enjoy, people will become less and less sedentary and pleasure trips for all classes of society will from now on be part of our daily living. For the well-to-do, beautiful beaches and luxurious hotels. But for the masses, parks, whether they be federal, provincial or simply local.

For the family of the workman, the park will be the equivalent of a splendid vacation, spent at little expense in fresh sea or mountain air, in the midst of particularly well chosen natural surroundings. It also is a question to a large extent of the health of our people. Our national pride is also involved - giving our people the opportunity to admire our beautiful scenery, our fine



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1 views, the lakes and mountains of our country which so  
2 far they can only see in pictures.

3 Of course if we lived in Europe, in the midst of  
4 an old civilization we could offer distractions of a  
5 different kind to our people - revelling in monuments of  
6 the past, recalling happy pages of history. But failing  
7 historical monuments of profound national interest, it  
8 rests with us to make the most of nature's charms.

9 Of secondary importance but importance neverthe-  
10 less are parks for our tourist industry. It would draw  
11 customers to the parks but only if these parks were laid  
12 out where nature is so to speak without rivals. For  
13 sixty years the U.S.A. has been spending millions and  
14 millions each year to provide parks for the public; the  
15 Americans today know.

16 These observations are perhaps tedious but they  
17 appeared necessary to me to stress the importance of  
18 parks in the organization of the new society which will  
19 emerge from the ashes of war.

20 Before mentioning what we ought to have in the  
21 province of Quebec, it is perhaps wise to show what we  
22 already possess in the way of parks, whether it is parks  
23 controlled by the federal government or parks adminis-  
24 tered by the different departments of the provincial  
25 government. Intentionally, I am omitting municipal  
26 parks which are of undoubted importance but which are a  
27 special study in themselves.

28 (a) Federal Parks

29 Actually we have three federal parks in the prov-  
30 ince of Quebec. I shall name them because their exist-  
ence has never run counter to the desires of provincial  
autonomy but on the contrary leads us to believe that  
federal collaboration can be very desirable in the  
interest of the province. The first of these parks,



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and accountability in the financial process.

Furthermore, it is noted that regular audits are essential to identify any discrepancies or errors. By conducting these audits frequently, potential issues can be addressed promptly, preventing them from escalating into larger problems.

In addition, the document highlights the need for clear communication between all parties involved. Regular meetings and reports should be held to keep everyone informed of the current financial status and any upcoming obligations.

Finally, it is stressed that adherence to all applicable laws and regulations is non-negotiable. Failure to comply can result in severe penalties and legal consequences. Therefore, staying up-to-date with the latest regulatory requirements is a top priority.

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1 the most beautiful and the best known, is the Park des  
2 Champs de Bataille on the plains of Abraham. Its hist-  
3 oric character places it in the forefront of the nation-  
4 al parks in the dominion. The second, is the Ile aux  
5 Noix, in the Richelieu, with the old fort and the museum  
6 which constitute its chief attractions. It is likewise  
7 a park of historic character. Finally there is Gatineau  
8 Park, a short distance from Ottawa, in what I may call  
9 the federal district. It is a panoramic park that the  
10 federal government began to lay out some years ago,  
11 after having bought for something more than \$150,000  
12 about 15,000 acres situated in the midst of natural  
13 beauty typical of the Gatineau. This park is already  
14 a credit to the province since it sets forth a few  
15 steps from the capital the charm of our Laurentians and  
16 capitalizes the attractions for both winter and summer  
17 sports.

#### 16 Provincial Parks:

17 Since 1895 to this day, the province has laid out  
18 several parks, at least on paper. They are the Parc  
19 des Laurentides (1895), the Park of Mount Tremblay  
20 (1895), Gaspé Park (1937,) Mount Orford Park (1938), the  
21 Reserve de peche de la Route Mont-Laurier-Senneterre  
22 (1939), of which I shall speak at greater length to des-  
23 cribe its possibilities. To be precise, it is necessary  
24 to add le Jardin Zoologique de Quebec (1931) and which  
25 the petit peuple have patronized with an enthusiasm that  
26 never fails. I must also add the Parc du Pont in  
27 Quebec under the jurisdiction of the Department of Pub-  
28 lic Works which is very popular. Also a few months ago,  
29 the province inherited for public use the Moulin de  
30 Vincennes, the furnishings which it contains and the  
gardens which surround it. From the point of view of  
the historian, we have nothing more authentic; charm-



The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data.

In the second section, the author outlines the various methods used to collect and analyze the data. This includes both primary and secondary sources, as well as the specific techniques employed for data processing and statistical analysis.

The third part of the document provides a detailed breakdown of the results. It shows how the data was categorized and how the different variables interacted. The findings indicate that there is a significant correlation between the variables studied, which supports the initial hypothesis.

Finally, the document concludes with a summary of the key findings and their implications. It suggests that the results have important implications for the field and provides recommendations for further research. The author also acknowledges the limitations of the study and offers suggestions for how these could be addressed in future work.

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1 ing or picturesque to show our people. As the centre  
2 of a local museum, it is quite unique. In conclusion,  
3 I might mention the terraces which the Department of  
4 Highways has constructed and which it maintains in sev-  
5 eral places along the national highway, where the view  
6 is quite remarkable. There are two or three in the  
7 Gaspé area and there is another on the heights of Baie  
8 Saint-Paul. These little parks which might be measured  
9 in feet rather than acres, fill several needs; they  
10 allow the traveller to enjoy a view of exceptional  
11 beauty, to picnic in the shade, to relax pleasantly and  
12 provide comfort stations. If, in our province, these  
13 have been established as an experiment, there is no  
14 doubt that they will now be multiplied in a serious  
15 effort to recapture the tourist trade.

### 16 III

17 I would like to mention now what, in my humble  
18 opinion, would be a suitable reconstruction programme  
19 for the post-war period.

20 Federal Parks: The federal government spent, up  
21 to the outbreak of war a sum of about thirty million  
22 dollars for the construction and management of national  
23 parks in nearly every province of Canada, aside from  
24 the historical or special parks, three of which exist  
25 in the province of Quebec. These great parks today  
26 number eighteen. They cover, in the most remarkable  
27 parts of the country an area of about 18,000 square  
28 miles and they include the highest peaks, mountains  
29 covered with eternal snows, glaciers, canyons, hot  
30 springs, magnificent waterfalls, luxuriant forests, an  
interesting flora, millions of lakes, numerous rivers,  
wild animals which are found perhaps nowhere else and  
all these places are run with a view to satisfying  
the curiosity and interest of the public and are



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1 definitely removed from industrialism and commercialism.  
2 We now have federal parks in all the provinces except  
3 Quebec and New Brunswick. Has the time not arrived when  
4 we should attempt to interest the federal government in  
5 the construction and management of two parks for this  
6 province, one in the Gaspé area and the other north of  
7 Montreal, the two most important districts of our prov-  
8 ince from the tourist point of view? The Gaspé penin-  
9 sula was becoming before the war and will become again  
10 after the war, one of the most sought-after places in  
11 America by tourists because of its incomparable scenery.  
12 The Nord de Montreal is not less popular as a result of  
13 a perfect organization which enables tourists to enjoy  
14 both winter and summer sports. Besides, the immense  
15 population of Montreal needs an outlet and if they are  
16 not provided with the means of taking the natural route  
17 to the north that population will head for the south  
18 and holiday on the comfortable beaches of Maine. If I  
19 am insistent regarding the construction of two federal  
20 parks, it is because I am convinced that the province  
21 will probably never have the means to build great parks,  
22 conforming to the standard of national parks and that  
23 for the pride of our population as well as for the  
24 satisfaction of American tourists two of our parks at  
25 least ought to be the equals of the most beautiful  
26 parks of North America and show the world what the  
27 Laurentians and the Shickshocks have to offer for the  
28 pleasure of the eyes and for the enjoyment of sports  
29 of all kinds.

30 Provincial Parks - Laurentian Park - Its assets  
are as follows: one of the wildest and most elevated  
corners of the whole Laurentian chain. A territory of  
4,000 square miles. Two cross country highways in ex-  
cellent condition. About 1,500 lakes. Several

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3. The third part of the document is a list of names and dates, similar to the first part. The names are written in a cursive script, and the dates are in a different script.

4. The fourth part of the document is a table with several columns. The columns are headed by names and dates. The table contains numerical data, possibly representing counts or measurements.

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1 hundred rivers. An excellent habitat for trout. A  
2 famous deer and fur-bearing animal reserve. An organ-  
3 ization already important though insufficient for the  
4 reception of tourists under the direction of the Depart-  
5 ment of Hunting and Fishing. Its liabilities are as  
6 follows: too great an industrialization of the forest,  
7 too many dammed lakes. Nature's beauties too readily  
8 sacrificed to industry. But the province can draw a  
9 large revenue from this park. In order to attain that  
10 goal, there would have to be a more scientific manage-  
11 ment of the woods, construction of well controlled  
12 barrages, a permanent biological station, new roads and  
13 portages to open up the new territory to tourists, the  
14 multiplication of cheap camps for visitors.

14 (b) Mount Tremblay Park

15 Established in 1895. Area about 1,500 square  
16 miles. Exists only on paper. One of the most pictur-  
17 esque places in the Laurentians. Leased entirely for  
18 wood-cutting. Numerous dams. Several territories  
19 licensed or rented for hunting and fishing. Situated  
20 at least 100 miles from Montreal. A short distance  
21 from one of our most beautiful national highways as  
22 well as from the C.P.R. station. Lends itself admir-  
23 ably to winter and summer sports. Already there exists  
24 in the western limits of the park, one of the finest  
25 ski centres in America and certainly, one of the best  
26 managed. One part of this park ought to be offered to  
27 the federal government for the purpose of a national  
28 park and the other part organized by the province in  
29 accordance with the more modest plan of the Parc des  
30 Laurentides.

29 (c) Parc de la Gaspésie

30 Situated some thirty miles south of Sainte-Anne  
des Monts and about sixty miles north of New Richmond,



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1 on the Bay des Chaleurs, Territory about 550 square  
2 miles. A few lakes. Source of several rivers. The  
3 highest elevation in eastern Canada: Le Mont Albert.  
4 La Table, le Mont Jacques-Cartier. Gorges that make  
5 one dizzy. Perpetual snow on some peaks. A renowned  
6 flora. The last great herd of cariboo in eastern Can-  
7 ada. To know Gaspé, it is not enough to encircle it;  
8 one must penetrate it. There is already quite a good  
9 road into the interior, portages, some camps, as well  
10 as a hotel whose construction was interrupted at the  
11 outbreak of war. This park ought to be offered to the  
12 federal government. Failing that, the management of it  
13 should be taken over as soon as circumstances permit.

13 (d) Mont Orford Park

14 Area about 16,000 acres, a short distance from  
15 Magog and Sherbrooke, along the national highway. The  
16 highest elevation in the Eastern Townships. Several  
17 very beautiful lakes in the immediate vicinity. A very  
18 picturesque golf course. Numerous ski-trails as well  
19 as a ski-tow. The construction of a road leading to  
20 the summit was abandoned at the outbreak of war. A  
21 summer camp for children. This park offers great pos-  
22 sibilities for the population of the Eastern Townships  
23 and the work ought to be undertaken as soon as possible.  
24 The children's camp should be run at state expense.  
25 Another place ought to be run for the Boy Scouts organ-  
26 ization.

25 (e) The Fishing Reserve of the Mont-Laurier-  
26 Senneterre Route.

27 Area about 2,000 square miles. We are almost at  
28 the height of land. The mountains are in the distance  
29 and one can no longer see anything. But the lakes are  
30 so numerous that one passes from one to the other by  
portage in a matter of seconds or minutes. For long



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1 and beautiful canoe trips without the least fatigue it  
2 is hard to find anywhere in the province a better lay-  
3 out. The pickerel and the pike reach a remarkable size  
4 and are very numerous. This Reserve should be made a  
5 provincial park and the locality made more comfortable  
6 to receive the public. More portages and more camping  
7 places would also be necessary. The introduction of  
8 bass there would assuredly be a success.

8 (f) Local Parks

9 The five provincial parks of which I have just spoken,  
10 would be quite enough to satisfy the needs of our  
11 population if our province were not so vast. But between  
12 them, there are often hundreds and hundreds of miles and  
13 it would be wise to establish little local parks not far  
14 from the smaller centres of population where a natural  
15 beauty makes it possible and desirable. It would be  
16 sufficient to follow the example of Queensland and lay  
17 out parks of a limited area. Even if the province was  
18 unable to begin them at once, we could anticipate the  
19 future by choosing the land and settling the boundaries  
20 on Crown lands while there is still time before these  
21 sites are definitely taken over by industry or for col-  
22 onization, during the course of the years. There would  
23 surely be room in the province for at least a dozen  
24 small local parks. When, twenty-five years from now,  
25 our population has doubled and the number of our tour-  
26 ists has tripled with increased communication facilities,  
27 these parks would be a considerable asset. But the  
28 choice of sites might become a bone of contention or even  
29 an apple of discord unless a commission, with wide  
30 powers, were named for that purpose. Cases could easily  
occur where remarkable sites have already been taken  
over and a law might have to be passed to permit appro-  
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1 It was Theodore Roosevelt who in the United States  
2 classed the most beautiful sites as one of the country's  
3 natural resources. So in accordance with the idea which  
4 he has bequeathed to us, there are resources which in  
5 certain spheres and in certain circumstances, become  
6 inalienable since they constitute a national heritage  
7 and cannot become part of an individual patrimony.  
8 These local parks ought not to be chosen without great  
9 care and thought, I repeat, and it would take a commis-  
10 sion at least two years to make an effective survey.

11 (g) Scenic Routes and Boulevards

12 I have already spoken of the conclusive experi-  
13 ences of the Department of Highways along the great  
14 national routes. I do not hesitate to repeat that it  
15 would be well to multiply these scenic routes for the  
16 reasons given above. Only the Department of Highways  
17 with its knowledge of localities could draw up an adeq-  
18 uate programme for our present and future needs.

19 (h) Natural Monuments

20 It is not only man who creates monuments. Nature  
21 has played a large part. In France and in the United  
22 States laws exist relating to natural monuments. Often  
23 these natural monuments are things of great beauty.  
24 Often also, they are things of curious and unusual  
25 interest. In one case as in the other, these ought  
26 to be kept for the pleasure and instruction of the pub-  
27 lic. In the United States, the number of natural mon-  
28 uments is as great as the number of national parks and  
29 it sometimes happens that these natural monuments after  
30 some years of arrangement and administration are raised  
to the rank of national parks, and with good reason.  
In the province of Quebec, we have natural monuments  
of truly exceptional beauty and interest. These monu-  
ments have been taken over and have become a part of



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1 private property. It is a shameful thing to contemplate.  
2 These must be returned to the public domain without de-  
3 lay for the pleasure and profit of the native popula-  
4 tion and visiting tourists. Their expropriation would  
5 cost comparatively little and their management for the  
6 use of the public would be easy and inexpensive. I  
7 would like to illustrate my thought with typical exam-  
8 ples but I am afraid of prolonging my subject in a man-  
9 ner incompatible with the purpose of this work.

9 (i) Vacation Centres

10 In the majority of parks of which I have spoken,  
11 vacation centres ought to be established for children  
12 whether it be the under-privileged of the city, or simp-  
13 ly young naturalists, scouts, guides or hikers. Noth-  
14 ing should prevent these centres being under the direc-  
15 tion of competent authority in religious matters even  
16 outside of these parks. I know of public properties  
17 which could easily be organized for the reception of  
18 groups of children; the majority of fishculture centres  
19 of the province, for example, are so well situated in  
20 this regard that it would be possible with little ex-  
21 pense to establish vacation centres. Think how the  
22 curiosity of these children would be stimulated in  
23 following the daily activities of these establishments.  
24 But a complete study of this question of vacation cen-  
25 tres could easily be made the subject of a separate  
26 work.

25 In conclusion, it only remains for me to excuse  
26 myself for not having been as definite as could have  
27 been desired. Since the beginning of the century, the  
28 majority of the countries of America, Europe, Africa  
29 and even of Asia have created parks of a greater or  
30 less extent, as circumstances permitted. I do not  
know that any country has regretted engaging in such



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1 projects even if they have had to incur expenses which  
2 might momentarily appear unjustifiable. In laying out  
3 and beautifying a park, one often builds more for the  
4 future than for the present and that is an act of pru-  
5 dence and wisdom.

6 Finally, should we hesitate to create for peace  
7 when we have learned never to hesitate in constructing  
8 the tools of war? As a comparison, I recall that to  
9 build an airport for fifty bombers, we had to use  
10 64,000 square yards of cement; to employ a fleet of  
11 1,000 airplanes, we required fifty airports. We re-  
12 quired moreover 60,000 specialists and behind them,  
13 65,000 men. That was the price we paid for keeping  
14 10,000 men in the air. (Voir Target: Germany).  
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