R5

CLASSIFICATION OF LANDS
BORDERING THE
BABINE PROVINCIAL FOREST
by
R.A.Fisher (1926)

(See also Survey and Preliminary Plan of
Management of Babine Forest 1926 & 1927-R5)
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Maps accompanying report:
(a) Index Map.
(b) Cover, soil & topography map combined in two sheets.

Files:
Reconnaissance R.5.
Correspondence 065081.
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ACKNOWLEDGEMENT.

I desire to express my indebtedness for assistances rendered in connection with this report to Mr. Richards and Mr. Thompson of the Dominion Department of Agriculture and to Mr. Bonavia, Mr. Munro and Mr. Rive of the provincial service. Co-operation within the Branch may be taken for granted.
The Project.

The purpose was to classify lands bordering the southern boundary of the Babine Forest so that the boundary might be permanently fixed. Areas examined were short distances north of the Bulkley and Nadako Rivers and Decker and Burns Lakes not far from the C.W.R.  

Reports by individual lot cover 84,372 acres, the common intensity of examination being two strips per mile. Areas reported on are classified as follows.

<table>
<thead>
<tr>
<th>Total Area</th>
<th>Agricultural Lands</th>
<th>Forest Lands</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Class</td>
<td>2nd Class</td>
</tr>
<tr>
<td>100%</td>
<td>19%</td>
<td>17%</td>
</tr>
<tr>
<td>84,372</td>
<td>16,162</td>
<td>14,251</td>
</tr>
</tbody>
</table>

The main cover on this area is as follows:

<table>
<thead>
<tr>
<th>Total Area</th>
<th>Recent Burn</th>
<th>Second Growth</th>
<th>Merchantable Timber</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1st Class</td>
<td>Deciduous</td>
<td>Coniferous</td>
</tr>
<tr>
<td>100%</td>
<td>12%</td>
<td>14%</td>
<td>46%</td>
</tr>
<tr>
<td>84,372</td>
<td>9,959</td>
<td>11,639</td>
<td>38,507</td>
</tr>
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</table>
The area of productive soil enclosed within the above classified acreages is as follows.

<table>
<thead>
<tr>
<th>Total Area</th>
<th>Tillable</th>
<th>Cultivable</th>
<th>Forest</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>31%</td>
<td>37%</td>
<td>17%</td>
<td>--</td>
</tr>
<tr>
<td>84,372</td>
<td>26,346</td>
<td>31,047</td>
<td>14,165</td>
<td>40</td>
</tr>
</tbody>
</table>

Besides the areas covered by individual reports nearly 10,000 acres of alienated land bordering the boundary was classified. This brings the total area examined to 94,000 acres.

**HISTORY.**

Any discussion of present conditions in the portion of British Columbia covered by this survey would be unsatisfying and incomprehensive if it did not mention the historical stages in the development of the district. Previous to 1864 this territory was unknown to any but fur traders and Indians. However, at this time owing to the unsuccessful attempts to span the Atlantic Ocean with a telegraph cable a company was formed with the purpose of constructing a telegraph line which together with a short marine cable across the Behring Sea would connect existing
lines in Europe and America.

The route in B.C. was up the Fraser River from New Westminster, crossing same at Quesnel and further west proceeding through the Endako and Bulkley River valleys. The latter river was named after the chief of the undertaking, Col. Chas. S. Bulkley. The project was given up in 1866 when it was learned that the Atlantic had been spanned. However, the trail made in connection with the construction of the line gave a means of access into the area for prospectors and settlers and by 1905 there were a few ranches in the Bulkley Valley.

Much progress could not be made, however, until the construction of the Grand Trunk Pacific Railway in 1912. During construction settlers in the Bulkley Valley found farming very profitable.

The distance from markets has kept farming back somewhat since then, but in 1926 there were 3000 to 4000 acres of timothy for seed alone.
View of farming land North of Smithers.

View of west boundary of forest looking east across Round Lake.
CONTOUR FEATURES.

It is difficult and I am in doubt whether it has been often achieved, to convey the topographic nature of the land in the Bulkley and Endako River Valleys to people who are familiar with broad level alluvial valleys like the lower Fraser Valley or the Sacramento or Joaquin Valleys in California. While the Bulkley and Endako Valleys are obviously traversed by these rivers a very small percentage of the land surface is of alluvial origin and can be classed as river bottom land. The great bulk of this land is upland sloping gently back from these rivers up to a point where on account of the cool season resulting, farming will never be practiced. Again while as before stated the general slope is toward these waterways the surface is by no means uniform, being in places rolling and containing many small hills, depressions, and lakes. The soil of the upland area has almost entirely been deposited by melting glaciers and this helps to explain the varied surface.

Elevations along the bottom of these valleys
range from 1670 at Telkwa to 2370 at Rose Lake, the height of land from where they gradually descent to 2250 at Endako. The width of the belt of land below the 3000 foot contour on the northern sides of these valleys varies from eight miles just east of Telkwa to not over one mile in places along the north shore of Burns Lake and between Savory and Endako stations on the Canadian National Railway. It is under 2 miles in width between Houston and Perow, between Tintagel and Priestly, and between Savory and Endako. Between Topley and Burns Lake it averages \( \frac{3}{4} \) miles in width.

Map. Contour maps were made of the areas examined with the aid of clinometers and barometers and contours appear on the soil type maps accompanying this report. The slope arrows which were used to show local topographic features could not be included on this map however.

CLIMATE.

There are no meteorological stations in the area covered by this survey but records at Telkwa and Maclure Lake appeared applicable to the area west of Houston. From this point east there are local climatic peculiarities related to contour but
the climate of the whole area may be characterized as semi-dry. The total rainfall would usually run from 15-20 inches. Of this about 3 inches fall in June and July, compared with the average 5-6 inches falling on the Canadian prairies during these months. The total snowfall is usually 3-4 feet and winter lasts from the middle of November until the middle of April. While crops are often sown early in May real growth is not made until the last of the month. Crops are usually harvested by the middle of September.

Fairly high summer midday temperatures are followed by comparatively rapid cooling of the air with resultant cool evenings. The daily period of sunlight, however, is very long and once crops start to grow they fairly leap. The short daily period of high temperatures, however, prevents the maturing of some heat loving crops. A related factor also comes in at this point—summer frosts.

Summer Frosts. It has been suggested contrary to the current opinion that frosts are to disappear as more lands are cleared up, that the numerous lakes south of the area should have more effect if this were the case. With the exception of Fraser Lake, however, the lakes are all small and being located
in the bottom of the valleys and shaded by trees
and hills have little chance to store up heat. Air
drainage conditions would not allow them to have
much effect in any case.

Summer frosts are not nearly as severe in these
valleys as they were when the first settlers came
into this country. There are usually three or
four of considerable extent but some of the settlers
on the benches back from the bottom of these valleys
when sufficiently large areas are in crop have grown
potatoes and other crops without serious frost in-
jury. This is remarkably demonstrated by the change
in the frost conditions on the old Barrett Ranch.
Frosts will be found more numerous and more severe
east of Houston in the beginning than further west,
as the warm winds from the west seem to have less
effect and air drainage conditions are also more
unfavorable. It goes greatly against the grain to
see the settlers between Houston and Burns Lake
suffering from frosts resulting from scattered settle-
ment. This portion of the valley has room for se-
veral hundred farms and if the soils were once worked
up frosts would disappear, markets improve and
agriculture flourish.
Elevation and Exposure Relations.

Elevation and exposure have a great effect on the earliness and length of the growing season and for this reason they have been given considerable weight in classifying the land. It is difficult to draw the limits beyond which farming should not go, however, on this basis, for there are no sharp lines of distinction. West of Houston a 3000 foot elevation with a southern exposure has been considered as high as farming should normally go while east of Houston this elevation has been reduced to 2800 feet. Areas with a northern exposure above the 2600 level have been considered of second class value. Lands left open to settlement by the above classification will not likely all be farmed within the next century and seem therefore as large an area as can be tolerated.

Summary.

The climate while dry is well suited to grain and fodder crops and irrigation is unnecessary when dry farm cultural methods are followed. A more detailed discussion of crops grown will follow.
(a) Timber.

The areas covered have largely been burnt over within the last century one or more times, and the stands of big timber are few. The present lumber crop is largely in the form of lodgepole pine tie timber. The pick of the best easily accessible stands have now been logged and logging operations in the near future will be largely confined to unsurveyed areas within the proposed forest. However, within 15-20 years' time large areas of first class tie timber will have matured on the surveyed areas bordering the settlements barring fires. The sites appeared to be fairly good on the average, there being large areas of lodgepole pine with a diameter running from 3-8" in sites 70-80 as defined by Mr. Barr.

(b) Preempting Timber.

A condition that has attracted my attention for some time is the amount of humbug and trouble that the present legislation in relation to timber and settlement allows. We force a settler of small means to put in improvements on a preemption that will never be used in order that he may obtain some small amount of timber on the area. We receive nothing in return for the timber and run a great risk from fire.
to say nothing of all the confusion resulting concerning agricultural valuations as a result of the various claims made in endeavors to obtain preemption records.

It would save the preemt's money and bring us in revenue if we would be willing to sell them small sales of any timber that was not part of a real logging show on terms they could handle. If we were willing to abolish the 10% cash payment in advance and sell settlers ties under the above conditions for 2¢ each instead of the 8¢ charged on big sales it would be much easier to keep our forests intact.

(c) The Cover Map.

The cover map was focused on the distribution of species as related to settlement and future forest values, as this had greatest bearing on the classification of these lands. The merchantable timber was accurately described and mapped but not cruised because a cruise by the green men would not be accepted as a basis for disposal and would therefore be wasted. Only about 5% of the area carried timber of this description however.

Fine distinctions in the percentages of species
were not drawn as the mixtures were very heterogeneous. If an area in one type was covered by one species to an estimated extent of 85% it was mapped as 100% that species. Otherwise each species was described if it constituted 10% or more of the cover. No percentages were given on the field sheets as instructions to the men covered the above classification. In the notes on each lot the species with their diameters were listed in the order of their numerical occurrence and we therefore know which are the dominant and predominant species of every stand. This is as much detail as to species as any reasonable amount of extra work would enable with accuracy.

The scale of the final cover map is one inch to the mile so it is not possible to give diameters. The merchantable timber has been contrasted with second growth by means of cross hatching.

CLEARING.

Agricultural markets have not always been good in Central B.C. Nevertheless all the good land would have been farmed if there had been no clearing necessary. Too little study has been given to this matter in Central B.C. It has always been maintained and
rightly that costs of clearing were relatively cheap in this part of the Province; i.e. relative to coast costs but not relative to coast net acre profits. It is to net acre profits that all clearing costs should be related and in this relation Central Interior costs cannot all be considered cheap.

If it is the cost of development which has kept the areas from being developed and will in the future continue to do, it would appear that this factor is entitled to a place among those used in classifying land.

A new factor has undoubtedly been introduced into settlement in Central B.C. by the successful reclamation of heavily burned over lands with sweet clover. Below is a typical burn north of Bednesti on heavy clay soil:-
And below is a nearby farm that for years refused to grow crops as a result of fire. Finally the owner tried sweet clover and the crop of timothy shown is the result:

Several farmers on the heavy lands of the McBride Townsite have tried sweet clover during the past two years and as a result of its use Mr. McDonald now grows as much hay on 10 acres as he used to grow on 40. Sweet clover may prove the salvation of this country.

Clearing costs are a variable amount depending on the method and the man and in as much as few settlers keep accounts of their labor distribution it is
more than likely that any figures we get for these costs are not quite accurate. Again figures on costs should not be those of the most efficient but rather of the average or slightly below the averagely efficient operator, which complicates matters. Poplar second growth has usually been considered as representing $50.00 per acre. Second growth pine lands are usually given as costing $75.00 -- $100.00 per acre. However, by the use of broadcast fire either of these costs can be greatly reduced.

In the light of the above experience with sweet clover it would appear that broadcast fire should perhaps be used to greater extent in clearing land in this part of the country. Land once in crop is undoubtedly a greater asset to the province than interior timber land. From this angle it would be good business to assist and direct settlers in the controlled burning co-operatively of small areas with broadcast fire in areas predominantly agricultural. The matter deserves serious consideration. There is such a thing as carrying our forest protection to extremes and thereby arousing public antagonism.
Burns Lake as seen from Lot 2689 looking south.

Rank growth of fireweed, lupine, pea vine, and grasses in creek bottom near Topley.
SOIL.

Origin & History.

Soils of the Bulkley and Endako River Valleys have almost entirely been derived from igneous rocks which were largely of volcanic origin and have been ground up by glaciation. They present a different study from average soils in crop further south in that they are young soils in the sense of weathering and layering of soil salts and colloids, having undergone very little. Many have changed physical characters as a result of forest fires however. The effect that fires have had on the soil is not easily recognized, as unlike weathering and layering of salts and colloids the lack of part of the water of crystallization is not always visible, and fires do not always give a lasting color to the soil. If the water of crystallization is once driven off, however, it requires many years to give the soil its normal capacity for capillary moisture. We have analyses under way at present investigating this matter. All the soils appeared to have been largely covered with forest since the retreat of the ice.

The Stones.

After a brief study of the soils in the vicinity
of Burns Lake, however, it is apparent that the main conundrum for our work centres on the content of the stones. Where should we draw the line between tillable and too stony for tillage? Obviously if the fine earth part of the soil were right it would be possible to farm lands with a stone content of 75 -- 80% if we were prepared to remove the stones from the surface layer. In the interests of Land Economy, however, we have aimed to separate lands that would normally be plowed from those which would only be cultivated in the visible future. The fact that neither of the soil surveyors had had experience in plowing very stony land made it necessary to pay a great deal of attention to this factor and the consequent lesser attention paid some other parts of the work received some criticism. This with the pros and cons can be had on my personal file. By the end of the season, however, both men had a pretty definite mental picture of what was aimed at and in a few cases have made supplementary notes on their early field sheets. Check cruises showed good accuracy in this information.

SOIL TYPES.

(a) The Loam Group.

On the final soil map the soils of the middle
physical group have been mapped together as they constitute the first class farm soil in the area. These constituted soils with a minimum of about 20% of silt and clay when clay amounts to over 10% or an otherwise minimum of 30% of silt and clay. The maximum content of clay was limited to 35% as contrasted to the usual 50% but in small local areas drainage conditions may have caused higher contents than was mapped. The 35% limit would take in the light clays found. They were of equal value for farming.

It requires but a glance at the soil map to show that the bulk of the soil of the area that is not too stony is in this very desirable loam group. Analysis indicate that it is quite well supplied with plant food minerals. A sample of sandy clay loam from lot 4085 was low in phosphoric acid and also rather low in potash. One other sample was low in phosphoric acid but it is considered that these samples were not representative of sizeable areas. These soils will yield crops more certainly than any other equally large area of soil I have encountered in the interior of S.C., although many of them will admittedly need the humus contents built
up. A table of analysis follows.

Fire cannot injure soils of this group as permanently as the heavier soils further east and they are also more foolproof to bad farm management as they do not bake hard and crumble readily. They would be suited to almost any crop when the humus content is right and are well adapted to the dry farm practice necessary in the area.

**Sandy Loam.**

Under this head were mapped all the sandy soils of lighter consistency that still held some promise under dry farm practice. The members of this group vary considerably but have about the same value for farming as the heavier clays. No chemical analysis were made of members of this group and it is expected to be more uniform in chemical content than the loams though usually satisfactory.

**The Clays.**

The only large area of heavier clays occurs in the vicinity of Fraser Lake and it is presumed that at this point the heavier soils further east and the loams of the west merge. "Clay" is quite a significant term to the average person but the surface clay encountered in the area might not as a result of
fires fulfill the association the term calls up in the average mind. It is comparatively white and dry at most times and not very sticky when wet. Two analysis indicate that it will be satisfactory in mineral plant food but the content of potash is much lower than we would expect in clay. The soda content would likely be correspondingly high. This is good farm soil but obviously less desireable than the loam group. Like them it is usually low in active humus.

The Sands.

There was a limited area of wind blown and sorted sand encountered on parts of area. This has been separated from the sandy loam largely because of its different origin but it has a lower water holding capacity and is therefore inferior.

Peat and Muck.

A feature that quickly attracts the attention of any one interested in soils of central S.C. is the prevalence of small peat bogs and organic deposits wherever the drainage is not good and water stands at periods in the year. Numerous small lakes have also been gradually filled up with residues of floating plants. Most of these deposits are largely derived from chitinous plants that decay very slowly,
and therefore form lands of low value. These soils when drained would be very low in plant food minerals and dry, and their inclination to be slightly acid in reaction and inanimate makes it doubtful whether much labor spent on them would yield interest. However, in some cases willows and poplars have come in at later stages in the deposition and the soils are more mellow and favorable to crops. Some of the finer sedges also produce a fairly good quality of peat. On the final map all deposits of this nature have been grouped together and the cover map indicates the present condition of each.

**Crops Grown & Markets.**

Crops grown in the Bulkley and Endako Valleys have more or less conformed themselves to market conditions. A few years ago the best paying crop was timothy hay and large acreages were seeded down. The price of hay dropped however and in order to get returns from the land most of the timothy in these valleys was cut for seed in 1926. With the building of the grain elevator at Prince Rupert a new market opens for bulk grain, and in as much as it has been repeatedly demonstrated that No. 1, hard wheat and good oats can be grown, grain growing is bound to
Charley Haven beside his team in his field that grew the 1926 World's Champion Timothy at Uncha Lake. (40 miles south of Burns Lake.)

A view of the hay shed and nearby grain field.
have a big place in farming in the future. At the end of this report I am adding a table of crop yields compiled by the Dom. Dept. of Agriculture that shows that potatoes and sunflowers for silage also do well. Many garden vegetables are raised by settlers.

The market for cream at the present time is unusually good. The producer gets 75¢ per lb. butter fat and any who are lucky enough to have good dairy cattle are making real money. This market has always been good and would assimilate quite an increase in production and when the potential mineral development is considered must be considered very satisfactory.

Seed growing is taking a bigger and bigger place in B.C. agriculture and this year Charley Haven at Uncha Lake 40 miles south of Burns Lake has won the world's championship for timothy seed at the Chicago fair. Over six car loads of timothy seed have been shipped out of the Bulkley Valley this year. A bigger opportunity is offered in meadow fescue and red clover for seed however, as Mr. Thompson of the Dom. Dept. of Agriculture advises.

Grain grown in the Bulkley Valley has an advantage of 2¢ per bushel over grain grown east of Edmonton due to freight rates. Freight rates are a funny thing however in some ways, as Edmonton is 957 miles from the coast as compared with the 250 miles in the
Bulkley Valley. The rate per hundred lbs. on bulk grain is 18¢ at Burns Lake, 20¢ at Edmonton and 26¢ at Spirit River the nearest railway point to the Peace River Block. This is only a difference of 8¢ for 1 2/3 bushels or about 5¢ per bushel between the highest and lowest charge. This is only equivalent in value to an increase or decrease in yield of one bushel per acre.

CLASSIFYING THE LANDS.

Areas of Doubtful Value.

From the data presented it appears that along the boundary of this forest there is usually an area of marginal land that would not be greatly misused either as forest land or as agricultural land and on which on account of its low farm value a very intensive examination is not called for. In the average land classification it is felt that this class would be painted black enough to be apparently correctly classified as "Absolute Forest Land" as really only two classes of land have been recognized in the past; viz.

1. Agricultural A & B.
2. Forest.

In as much however as I have seen in writing
nowhere a justification for this exaggeration I am representing this land in its true case, believing the Dept. to have the power to classify lands of this description without the aid of exaggerated opinions by field men, I believe this is a matter of policy with which field men are not concerned.

It is the policy in establishing Provincial Forests to make them as permanent as possible. In the present work however, we run pretty definitely up against the main purpose behind the Land Act; viz: to use lands in the best public interest,—for only a small percent of the Babine Forest apparently has what in the past has been known as Absolute Forest Soil. We have got to realize that not on the basis of non agricultural soil alone can we fix the boundary of this forest. It is a matter of land economy and we will have to face it and acknowledge it sooner or later. If we have more land with low agricultural values than will apparently be used for a hundred years or more, part of it should be growing timber during this time. We are in a much better position to devote lands to forest use when we can show the public that we know exactly what kind of land we are using for this purpose. But we have still got to have the courage of our convictions. Land in-
cluded within the National Forests in the United States quite often has some agricultural value.

Changes--the Proposed Boundary.

On the soil type map the recommended boundary is shown as a heavy red line. It has been brought closer to settlements in several cases as a result of this examination.

Beginning at the west end of the south boundary of the forest, the Carr Creek Valley has now been included on the basis of elevation, contour, and inaccessibility together with its high forest value. From here south as far as a point 1½ miles north of Barrett Lake the boundary has been brought considerably west on the basis of elevation and soil. At this point it has been extended considerably south to take in the south western extremity of the Babine Range. A road passes through some lower lying country between this and the remainder of these hills, and presumably this was one of the reasons for not including it within the original boundary. The country traversed by the road is of a very low agricultural value however, and range values can be fully utilized under forest management.

From this point east as far as Topley a few modifications have been made on the basis of soil conditions
Land on the southern most extremity of the Babine Range looking east of Barrett Lake. This hill is now being included within the forest. The old road passes through the draw seen at the left.
as shown on the map. Just east of Topley ten sections have been included within the forest on this basis and north of Rose Lake two sections largely on the basis of elevation.

Beginning at Decker Lake there has been quite a belt of land included within the boundary on the basis of soil as far east as Fraser Lake. There is quite a promontory of higher and stonier land between Priestly and Savory that will be best included also. One quarter section of unsurveyed land has been excluded from the forest north of Savory.

North of the north arm of Fraser Lake examinations were not pushed past the surveys as it was intended to fix the east and other boundaries of the forest the following year. It appears that there is some good soil bordering Ormonde Creek but I would recommend that settlement be kept out of this area until the surveyed lands classified have been settled, which would be for at least 25 years. Land beyond the surveys is getting pretty high and inaccessible and considering that it is not by any means ideal soil, we are justified in using it for forest.
A burn near Fopley looking north.

Typical farm land west of Sheraton looking south-westerly.
CLASSES OF LANDS.

For classifying lands in order that they may be put to the use most in the interests of national economy two classes are insufficient; vix: 1st and 2nd. The lack of a more detailed classification leaves too much scope to peculiarities of individual inclination and not enough room for definite understanding and agreement. There are at least four classes of lands recognized by field men as disclosed by the recommendations on their land classification reports. These are:

1st. Class Land:
lands that are decidedly suited to intensive farm uses.

2nd. Class Land:
lands, (a) less definitely suited to intensive farm uses due to less favorable surface, soil, climate or cost of development features but still likely to become economic farm land in the future or, (b) lands incapable of being farmed but suited to some cultivation for rough hay or pasture use by nearby farmers if cleared.
3rd Class Land: (marginal).
(a) Lands that are beyond the reach of community settlement from existing railway or water transportation facilities, but are otherwise decidedly suited to intensive farm uses.
(b) Lands that will not be needed for farming and which, while likely capable of growing some agricultural crops with great expenditure of capital, would not in the visible future be economically used for farm practices.

4th, Non Agricultural Forest Land.
(a) Areas that should be always devoted to forest use due to their bearing on the economical use of surrounding forest lands.
(b) Land that is absolutely unsuited for any intensive farm practice but is still capable of growing merchantable timber.

Class one obviously corresponds with the first class land as set forth in the Land Act, but class two which is really the true land with second rate value for farm use would by statute also fall in this class. I believe that this was really not intended. Our attitude has otherwise materially changed since the Land
Act was drawn up as an investigation into reports handed in would show that classes 2, 3 and 4 are all classed as 2nd class land in reports by field men.

Under class 2 would come first class lands that are rather inaccessible at present but are not beyond the reach of community settlement from existing railway or water transportation facilities. It is difficult to show in a simple scheme of classification the low value of first class lands that are beyond the reach of these facilities. They would naturally group themselves as a sub class of the third class land.

In the individual reports on this project the lands have been classed in the two statutory classes but in the summary of same I have had the stenographer employ the above four classes explaining to her how they are to be obtained from these reports. The summary of individual reports on form 298 is as follows:
Sec. 2: Tp. 3, Coast R. 5.

East of Bulkley River at Telkwa. Classed as forest land on basis of high elevation, north-easterly exposure and cost of development.

Cover: Spruce and Lodgepole Pine timber 8" in diameter.

N.W. 1/4 Sec. 3, Tp. 3.

East of the Bulkley River at Telkwa. Classed as forest land on the basis of elevation and N.E. exposure.

Cover: S.E. 45 acres, fire-killed spruce and balsam. Remainder lodgepole pine 4-10" in diameter.

N.E. 1/4 Sec. 3, Tp. 3.

North of Round Lake. Classed as forest land on the basis of high elevation, cost of development, and stony soil.

Cover: 60 acres spruce, balsam timber. Remainder of area 5-10" lodgepole pine.

N.E. 1/4 Sec. 4, Tp. 3.

East of Bulkley River at Maclure Lake. Classed as 3rd class agricultural land on the basis of elevation, cost of development.

Cover: 90 acres of 10" spruce, 8" lodgepole pine. Remainder old burn covered thin lodgepole pine reproduction.

S.E. 1/4 Sec. 9, Tp. 3.

North of Round Lake and north of Bulkley River. Classed as forest land, on the basis of elevation, westerly exposure and cost of development.

Cover: except for 35 acres of burn, area is dense stand of big spruce, balsam and lodgepole pine.
M. ½ Sec. 9, Tp. 3.

North of Round Lake and north of Bulkley River. Classed as forest land on the basis of elevation and cost of development.

Cover: Dense stand of big spruce, balsam and lodgepole pine running over the statutory timber amounts per acre.

Fraction Sec. 20, Tp. 3.

East of Bulkley River near Smithers. Classed as 3rd class agricultural land on the basis of exposure, cost of development and small % tillable that would require resurvey to get it into one holding.

S.E. 1/2 Sec. 2, Tp. 7.

East of Bulkley River at Quick. Classed as 3rd class agricultural land on the basis of elevation, west to north-westerly exposure, and steep slopes.

Cover: 40 acres in north moderately dense stand of 10" balsam and 7" spruce. South has moderately dense 6" spruce and EL. second growth.

S.W. 1/2 Sec. 2, Tp. 7.

East of Bulkley River at Quick. Classed as 1st class agricultural land. Deep stony silt and clay loams of good quality.

Cover: Western 120 acres carry fairly dense lodgepole pine. South-easterly exposure.

N.W. 1/2 Sec. 2, Tp. 7.

East of the Bulkley River at Quick. Classed as 1st class agricultural land. Largely deep stony clay loam soil. South easterly exposure.

Cover: Western 120 acres moderately dense stand of Lodgepole Pine. Will yield ties in 10-15 years' time.
N.E. ½ Sec. 2, Tp. 7.

East of Bulkley River at Quick. Classed as 3rd class agricultural land on the basis of most of area too steeply sloping for tillage use and development cost.

Cover: 60 acres balsam and spruce in S.E. B. 10", S. 6". Remainder poplar 4" in diameter.

S.E. ¼ Sec. 3, Tp. 7.

East of the Bulkley River at Quick. Classed as 3rd class agricultural land on the basis of steeply sloping and broken surface.

Cover: Thin scattering 6" spruce second growth, 4" poplar and 10" cottonwood on south 40 acres.

S.W. ½ Sec. 3, Tp. 7.

East of Bulkley River at Quick. Classed as 1st class agricultural land. Southern exposure. Deep fine sandy loam soil well suited to crop use.

Cover: With exception of 40 acres W.E. S. and poplar second growth, 6" diameter, and few acres spruce poplar second growth, area is thin stand 3" poplar and cottonwood.

N.E. ¼ Sec. 3, Tp. 7.

East of Bulkley River north of Quick. Classed as 1st class agricultural land. South easterly exposure. Deep fine sandy loam and light clay loam -- good agricultural soil -- surface soil deep and mellow in west.

Cover: E. ½ moderately dense lodgepole pine 6" in diameter.

Sec. 15, Tp. 7.

East of Bulkley River at Hubert. Classed as 3rd class agricultural land on the basis of elevation and un-uniform stony soil. South westerly exposure.
Sec. 15, Tp. 7. (Cont)

Cover: Moderately dense stand of Lodgepole pine second growth 6" in diameter. Will yield quantity of ties in 20 years.

S.E. ¼ Sec. 16, Tp. 7.

East of Bulkley River at Hubert. Classed as 2nd class agricultural land on the basis of elevation and cost of development.

Cover: Area largely logged and burnt without reproduction.

N.W. ¼ Sec. 16, Tp. 7. (part now Lot 1238)

East of Bulkley River at Hubert. Classed as 1st class agricultural land. South westerly exposure. Soil -- deep stony clay loam of good quality and well suited to crop use, except for having been forested.

Cover: Area all burnt land without reproduction.

N.E. ¼ Sec. 16, Tp. 7.

East of Bulkley River at Hubert. Classed as 2nd class agricultural land on the basis of elevation and cost of development.

Cover: Mostly fire-killed without satisfactory reproduction.

Fraction N. ¼ Sec. 20, Tp. 7.


Cover: 25 acres dense 10" Spruce in south west. Remainder is burnt land without reproduction.
S.W. \(\frac{1}{4}\) Sec. 22, Tp. 7.

East of Bulkley River at Hubert. Classed as 3rd class agricultural land on basis of elevation, and cost of development.

Cover: Fire-killed with little reproduction.

N.W. \(\frac{1}{4}\) Sec. 22, Tp. 7.

East of Bulkley River at Hubert. Classed as 3rd class agricultural land on the basis of elevation, west - north westerly exposure and cost of development.

Cover: All area fire-killed with little reproduction.

E. \(\frac{1}{8}\) Sec. 22, Sec. 23 & Sec. 14, Tp. 7.

East of Bulkley River at Hubert. Classed as 3rd class agricultural land on the basis of elevation.

Cover: East \(\frac{1}{2}\) of Sec. 22 probably burned over. Sec. 14 carried moderately dense 6" lodgepole pine and smaller spruce. Sec. 23 likely partly covered by latter stand though part may be burnt over.

Fraction Sec. 28 & 33, Tp. 7.

East of Bulkley River at Telkwa. Classed as forest land on basis of elevation, westerly exposure and cost of development.

Cover: Part of area big stand of spruce and lodgepole pine. Part of section 28 burnt over.

N.W. \(\frac{1}{4}\) & S.E. \(\frac{1}{4}\) Sec. 2, Tp. 9.

East of Bulkley River north of Walcott, Classed as forest land owing to area being largely steeply sloping and too gravelly for much tillage.

Cover: Largely patchy small poplar. South part of N.W. \(\frac{1}{4}\) carries 20 acres spruce and cottonwood.
N.W. 1/4 Sec. 15, Tp. 9.

East of Bulkley River south of Quick.
Classed as 2nd class agricultural land owing to steep slopes, and gravelly un-uniform soil. About 65 acres have south westerly exposure.
Cover: Area is old burn with small poplar and alder reproduction.

W. 1/4 Sec. 22, Tp. 9.

East of Bulkley River south of Quick.
Classed as forest land owing to area being on mountain side, and gravel and rock with small pockets of silty soil.
Cover: Area fire damaged - poplar and alder.

W. 1/4 Sec. 23, Tp. 9.

East of Bulkley River south of Quick.
Classed as forest land on the basis of elevation and inaccessible position.
Cover: Area will be covered this year by forest survey.

S.W. 1/4 Sec. 27, Tp. 9.

East of Bulkley River at Quick. Classed as forest land on the basis of elevation, steep north-westerly exposure. Land largely on a mountain side.
Cover: Area largely burnt part will carry 6" lodgepole pine -- small poplars reproduction.

S.E. 1/4 Sec. 34, Tp. 9.

East of Bulkley River at Quick. Classed as 3rd class agricultural land on the basis of elevation and north westerly exposure, and considerable area of steep slopes in north west.
Cover: Fairly dense 6" lodgepole pine second growth mixed with alders. Also some 6" spruce on north 20 acres.
S.W. $\frac{1}{2}$ Sec. 34, Tp. 9.

East of Bulkley River at Quick. Classed as 2nd class agricultural land on basis of elevation and north westerly exposure. Largely gently sloping. Excepting 15 acres fine sandy loam area is deep light clay loam well suited to tillage. Clearing is heavy.

Cover: Moderately dense 6" lodgepole pine, spruce, and balsam second growth.

N.W. $\frac{1}{2}$ Sec. 34, Tp. 9.

East of Bulkley River at Quick. Classed as 2nd class agricultural land. Most of gently sloping area has deep stony silt loam and clay loam soil that is well suited to crop use. Remainder deep fine sandy loam soil. Heavy clearing and late exposure.

Cover: Second growth moderately dense 6" lodgepole pine and spruce. Remainder except poplar area dense stand 4-5" pine and alders.

N.E. $\frac{1}{2}$ Sec. 34, Tp. 9.

East of Bulkley River at Quick. Classed as 2nd class agricultural land on basis of elevation and north westerly exposure. Soil - deep stony silt and clay loam excepting 15 acres of deep fine sandy loam in creek draw.

Cover: 40 acres thin spruce and Balsam mixed with second growth in north. Remainder second growth mostly 4-6" lodgepole pine.

Lot 176.

East of Bulkley River north of Walcott. Classed as 2nd and 3rd class agricultural land. Steep south westerly exposure and gravelly soil on all but 40 acres.

Cover: N.W. 20 acres carry moderately dense stand of 6" lodgepole pine second growth. E. of this is an area of about 30 acres of moderately dense 4" poplar. E. half of area recent burn with thin small poplar reproduction.
Unsurveyed ¼ Sec. N. of Lot 721.

East of Bulkley River at Walcott. Classed as forest land owing to elevation, rocky and gravelly soil, and being on mountain side.

Cover: About half area carries 5" lodgepole pine second growth - remainder -- thin stand of poplar.

S.E. ¼ Lot 726.

East of Bulkley River north of Barrett Lake. Classed as 2nd class agricultural land on the basis of elevation. Easterly exposure. Central area has gentle slopes and deep stony silt loam soil suitable for tillage.

Cover: Thin stand of 3" lodgepole pine mixed with willows and alders.

S.W. ¼ Lot 726.

East of the Bulkley River north of Barrett Lake. Classed as 2nd class agricultural land on the basis of elevation and westerly and easterly exposures. Surface gently rolling. Soil -- deep stony silt loam suited for hay and grain crops.

Cover: 20 acres of alders in west with small lodgepole pine.

S.E. ¼ Lot 727.

East of Bulkley River north of Barrett Lake. Classed as 2nd class agricultural land on the basis of steep slopes. Area is suited for mixed farming with seed growing as a specialty.

Cover: Poplar second growth and grass land.

S.W. ¼ Lot 727.

East of the Bulkley River north of Barrett Lake. Classed as 2nd class agricultural land on the basis of steep slopes. South westerly exposure. Area is suited to mixed farming.

Cover: 50 acres only carry thin stand of lodgepole pine. Remainder poplar and grass land.
S.W. ¼ Lot 732:

East of the Bulkley River north of Barrett Lake. Classed as 1st class agricultural land. South western exposure. Soil on area is largely deep stony silt loam well suited to crop production.

Cover: Largely willow, alder, poplar and cottonwood.

N.W. ¼ Lot 732:

East of Bulkley River north of Barrett Lake. Classed as 2nd class land on the basis of steep slopes.

Cover: Largely poplar with thin admixture of lodgepole pine averaging about 6" in diameter.

S.W. ¼ Lot 737:

East of the Bulkley River west of Barrett Lake. Classed as 1st class agricultural land.

Northern 90 acres are a deep stony silt loam soil of good quality. South of this the soil is lighter being largely sandy loam. Whole area is suited for tillage.

Cover: Northerly 122 acres carry moderately dense stand of 7" lodgepole pine and 6" spruce. Will yield ties in 10 years time.

N.W. ¼ Lot 737:

East of Bulkley River west of Barrett Lake.

Classed as 1st class agricultural land. Very gentle north westerly exposure and gently sloping surface.

North west 90 acres are deep stony sandy loam. South east 70 acres -- deep stony silt loam.

Cover: Willow, alder, poplar and cottonwood - 110 acres. 50 acres second growth lodgepole pine and spruce in south east. Pine averages 7" in diameter. Spruce 6".
E. ½ Lot 863.

East of Bulkley River at Smithers. Classed as forest land on basis of elevation and N.W. exposure, together with steep surface.

Cover: South -- logged, carries few acres of thin big 20" spruce. North of this -- 60 acres of moderately dense 8" lodgepole pine. Centre of area -- covered with willows and alders and 6" poplar.

S. ½ Lot 1161.

East of Bulkley River at Barrett Lake.
Classed as 1st class agricultural land. Gentle south western exposure and a gently sloping surface. Soil -- deep fine sandy loam of good quality. It is well suited to mixed farm use.


N. ½ Lot 1161.

East of Bulkley River at Barrett Lake.
Classed as 1st class agricultural land. South westerly exposure and a fairly gently sloping surface. Soil -- deep sandy loam of good quality.

Cover: South east 80 acres carry thin mixture of 4" poplar and lodgepole pine 2nd growth, remainder 2-4" poplar.

S.W. ¼ Lot 1162.

East of Bulkley River south of Walcott.
Classed as 2nd class agricultural land on basis of elevation and north westerly exposure. South east -- deep fine sandy loam. North -- deep stony silt loam and clay loam soil well suited to crop production.

H.E. Lot 1162.

East of Bulkley River south of Walectic.
Classed as 2nd class agricultural land on basis of elevation and gravelly soil. South west is largely deep stony silt and clay loam of good quality.

Lot 1835.

East of Bulkley River at Hubert. Classed as 1st class agricultural land. South westerly exposure and gently sloping surface. Soil is deep stony silt loam of fair quality.
Cover: -- This area carries no reproduction.

Unsurveyed 1 4 N. of Lot 2107.

Cover: Largely 2nd growth 6" lodgepole pine mixed with poplar.

Lot 2139.

North of Bulkley River west of Palling.
Classed as 3rd class agricultural land. Gently rolling surface except near creek where land is considerably broken. Soil -- Deep gravelly silt loam with exception of small areas of peat land. Area is better suited for growing timber.
Cover: 30 acres jack pine 2nd growth in north east will yield ties. Partly logged. South half largely covered with spruce 2nd growth.

Lot 2152.

North of Bulkley River east of Topley.
Classed as 3rd class agricultural land on basis of elevation and gravelly soil. Southern exposure and largely a steeply sloping surface.
Lot 2152. (Cont).

Cover: 23 acres poplar. Remainder fire-killed 2nd growth poplar and pine.

S.E. ¼ Lot 2507.

East of lower centre of Decker Lake. Classed as 1st class agricultural land. Gentle south west slope. Most of area is suited for general farm use and will be very fertile when the humus is built up.

Cover: South west 100 acres is heavy burn without reproduction. Remainder moderately dense 6" jack pine and young spruce.

S.W. ¼ Lot 2507.

East of Decker Lake. Classed as 1st class agricultural land. Area has south west exposure and a gently sloping surface. Soil -- deep stony silt loam of good quality, will be very fertile when humus is built up.

Cover: Largely logged and burnt without reproduction.

N.W. ¼ Lot 2507.

East of Decker Lake. Classed as 1st class agricultural land. Area has gently sloping surface and south westerly exposure. Soil -- largely deep stony silt loam of good quality. Area has been severely burnt over but would easily yield big crops.

Cover: 40 acres of 2nd growth pine will yield ties in 20 years. Remainder carries no reproduction.

N.E. ¼ Lot 2507.

East of Decker Lake. Classed as 1st class agricultural land. Gently sloping surface with a south west exposure. The silt loam in this valley is very well suited to intensive cropping.

Cover: 135 acres of moderately dense jack pine averaging 6" in diameter and spruce reproduction. South west 25 acres burnt without satisfactory reproduction.
E. ½ Lot 2608.

North of Bulkley River west of Houston. Classed as 3rd class agricultural land because area is gravelly and better suited for growing timber.

Cover: Moderately dense lodgepole pine 2nd growth averaging 6" in diameter -- understory alders.

N.W. ¼ Lot 2627.

North of Bulkley River east of Topley. Classed as 2nd class agricultural land because of steep slopes and gravelly soil. Area has south west exposure. 90 acres deep sandy loam in west. Area is suited for mixed farming.

Cover: Largely moderate poplar stand excepting 15 acres thin jack pine in east averaging 4" in diameter.

N.E. ¼ Lot 2627.

North of Bulkley River east of Topley. Classed as forest land owing to elevation, steep slope and gravelly soil.

Cover: 20 acres only of moderately dense 4" lodgepole pine. Remainder is poplar.

Lot 2631.

North of Bulkley River near Topley. Classed as 1st class agricultural land. Western exposure. 50 acres deep rich loam in north west and 15 acres of sandy loam south of it.

Cover: S.E. ¼ of ¾ carries moderate to sparse poplar. In north west small spruce and poplar 2nd growth with considerable willow and alder.

Lot 2632.

North of Bulkley River at Topley. Classed as 1st class land. General southerly exposure and gently rolling surface. Soil -- north west 70 acres too stony for tillage. Remainder well suited to crop use.

Cover: 50 odd acres dense lodgepole pine averaging 8" in diameter, mixed with 4-5" poplar, will
Lot 2632. (Cont)

yield ties. Northern 70 acres dense 5-6" pine. South 40 acres fairly dense 4-5" poplar.

Unsurveyed ¼ sec. E. of Lot 2632.


E. ¼ Lot 2633.

North of Bulkley River at Topley. Classed as 2nd class agricultural land on basis of elevation, exposure and cost of clearing. Area has deep uniform stony soil.

Cover: Second growth. 40 acres mixture 6" spruce, balsam and smaller poplar. Remainder largely pine poplar mixture, in which pine averages 5" in diameter.

W. ¼ Lot 2633.

North of Bulkley River at Topley. Classed as 1st class agricultural land. South east exposure and largely gently sloping surface. Soil -- largely deep stony silt and clay loam of good water holding capacity and fairly well suited to mixed farm use. Cover: Thin 2nd growth largely poplar with lodgepole pine averaging perhaps 6" in diameter. South east 20 acres moderate stand 6" balsam and smaller poplar.
E. 1/2 Lots 2863 & 2820. (Unsurveyed).

Classed as second class agricultural land due to light un-uniform soil and rolling surface.
Cover: is small poplar and open burn.

W. 1/2 of Lots 2863 & 2820. (Unsurveyed).

Classed as forest land on the basis of light un-uniform soil and broken surface.
Cover: Area is largely recent burn carrying small poplar growth.

Lot 3214.

North of Fraser Lake on Ormond Creek. Classed as 2nd class agricultural land on basis of location.--Southerly exposure and gently sloping surface excepting canyon in south. Deep clay soil.
Cover: Largely jack pine 2nd growth in south 2/5 and north 1/5 averaging 5" in diameter in dense stands. Central 35 acres are older, averaging 8" in diameter and north of this slightly younger stand averaging 6" in diameter and mixed with spruce reproduction. Central area carries some ties.

W. 1/2 Lot 3220.

North of Fraser Lake. Classed as 3rd class agricultural land due to gravelly soil.
Cover: West half carries jack pine and alder reproduction. 60 acres in east half carry stand of big fir 2 1/2 to 3 feet in diameter. West is thin stand mixed with 6-8" pine. Remainder is poplar and small jack pine reproduction.

S.E. 1/4 Lot 3222

North of Fraser Lake. Classed as 3rd class agricultural land on basis of gravelly soil.
Cover: 2nd growth mostly Jack pine excepting 38 acres alder in south east corner. Pine is dense averaging 6" in diameter excepting 30 acres of 8-10" timber north of alder in thinner stand. Area carries considerable quantity of ties.
S.W. ¼ Lot 3222.

North of Fraser Lake. Classed as 3rd class agricultural land on basis of very stony soil. Cover: Dense 2nd growth jack pine averaging 5-6" in diameter with understory of alder.

N. ¼ Lot 3222.

North of Fraser Lake. Classed as 3rd class agricultural land on basis of southerly exposure, fairly gently sloping surface and deep bouldery and stony clay soil. This land would grow fine timber but is not suited for intensive cultivation. Cover: At present growing fine stand of pine. (Jack pine) 2nd growth averaging 6-7" in diameter. (Pick of Timber has been logged.)

E. ½ Lot 3223.


W. ¼ Lot 3223.

North of Fraser Lake on Ormond Creek. Classed as 2nd class agricultural land on basis of location. -- South west exposure--gently sloping surface. Soil, deep clay. Cover: Mostly dense jack pine 2nd growth averaging 5-6" in diameter. Some poplar admixture in east and nearly 20 acres of bigger trees in south east averaging 8" in diameter in thinner stand. This 20 acres will yield some ties.

E. ½ Lot 3224.

North of Fraser Lake. Classed as 2nd class agricultural land on basis of location. -- southern exposure and gently sloping surface. Soil is practically all suited for mixed farm crops.
E. 1/4 Lot 3224. (Cont).

Cover: Almost entirely covered with moderately dense jack pine averaging 5-6" in diameter. Will yield a few ties in future.

W. 1/4 Lot 3224.

North of Fraser Lake. Classified as 2nd class agricultural land on basis of location. -- gently southern slope and even surface.

Cover: Beaver-made land is largely covered with willow and alder and thin big spruce. Remainder largely carries fairly dense 4" jack pine and spruce 2nd growth.

Lot 3225.

North of Fraser Lake. Classified as 2nd class agricultural land owing to lack of roads. Soil -- 80 acres of willow bottom in S.E. have deep black muck soil. Remainder of area has deep stony silt loam soil of good quality and adapted to general crop use.

Cover: N.W. 120 acres carry a fairly dense stand of jack pine second growth averaging 6-8" in diameter. Will yield some ties now and many within a few years' time.

Lot 3226.

North of west end of Fraser Lake. Classified as 2nd class land on basis of very uneven surface and stony soil. Area carries too much timber to be opened to settlement until logged.

Cover: 60 acres poplar land. Remainder carries big spruce timber and 6" jack pine, which is merchantable.

E. 1/4 Lot 3227.

On Deserter Lake north of Fraser Lake. Classified as 2nd class agricultural land on the basis of location and cold exposure. Most of soil on area is suited to cultivation.
E. ½ Lot 3227. (Cont)

Cover: Largely jack pine 2nd growth averaging 5-6" in diameter in dense stands. There will be few trees of tie size.

E. ½ Lot 3222.

North of west end of Fraser Lake. Classed as 3rd class agricultural land on the basis of elevation, and comparatively steeply sloping surface. Soil is very stony silt and clay loams with some rock outcrops. Comparatively inaccessible.

Cover: Largely small poplar.

E. ½ Lot 3223.

North of west end of Fraser Lake. Classed as 2nd class agricultural land on the basis of steeply sloping surface, also because of inaccessibility and cold location.

Cover: Largely jack pine reproduction although some is semi-fire killed. Pine is thickly seeded and averages 5" in diameter. Remainder partly deciduous forest and partly burn.

Lot 3234.

North of west end of Fraser Lake. Classed as 3rd class agricultural land on the basis of unsuitable soil for farming and cost of development.

Cover: Apparently 2nd growth lodgepole pine.

Lot 3235.

North and west of Fraser Lake. Classed as 3rd class agricultural land because of northern exposure and cold location.

Cover: 2nd growth -- about ½ jack pine and ½ spruce. West and east quarters carry pine averaging 6-8" in diameter. Center carries spruce and balsam reproduction and a few scattered 10" spruce. Some tie timber.
Lot 3237:


Cover: Largely poplar which is a favorable feature. Few 6" jack pine and about 10 acres of fairly dense 7" pine in the N.E. corner.

Blk B. Lot 3238:

North of west end of Fraser Lake. Classed as 2nd class agricultural land on the basis of cold location, cost of development, and steep eastern slope.

Cover: Largely 2nd growth jack pine 6" in diameter and spruce reproduction, also thin stand of big fir on parts of area. There are about 30 acres of poplar land.

Lot 3240:

North of Endako River at Stellako. Classed as 3rd class agricultural land on basis of steep slopes, badly broken surface and gravelly silt loam and decomposing rock unsuited for tillage.

Cover: Excepting poplar area this land is well stocked with spruce and jack pine 2nd growth. This is small in south but pine runs 6-8" on north 20 acres. 2 acres of big spruce in swamp on west border.

Lot 3249:

North of Endako River east of Endako. Classed as 2nd class agricultural land on basis of cold location, and insufficient good land for initial farm.

Cover: 2nd growth jack pine, spruce and poplar in south. Central 40 acres pine averages 10" in diameter and will yield a considerable quantity of ties.

Lot 3251:

North of Endako River east of Endako. Classed as forest land on basis of rocky soil of no agricultural value and steep southern slopes.
Lot 3251. (Cont)

Cover: Mostly a stand of small poplar, but there are 25 acres of jack pine and spruce 2nd growth in N.E. corner. Pine averages 6" in diameter.

Lot 3252.

North of Bulkley River and east of Endako. Classed as forest land on the basis of elevation, rolling surface steeply sloping and shallow gravelly soil with rock outcrops on large areas.

Cover: Northern 90 acres carry thin stand of 2nd growth jack pine, poplar and spruce. Pine averages 4" in diameter. Remainder of area is covered with poplar.

Lot 3253.

North of Endako River east of Endako. Classed as forest land on the basis of elevation, steeply rolling surface and shallow gravelly soil on rock with rock outcrop. Southern exposure.

Cover: N. 1/2 carries a stand of Jack pine, poplar and spruce 2nd growth. Pine averages 4" in diameter. Remainder of area is covered with small poplar.

Lot 3254.

North of Endako River east of Endako. Classed as 3rd class agricultural land as a considerable part of area is topographically non-tillable, and soil is gravelly.

Cover: Fairly dense stand of young poplar over 15 feet high.

Lot 3255.

West of Fraser Lake and north of C.S.R. Rly. Classed as forest land owing to precipitous slopes, gravelly soil with rock outcrop.

Cover: 60 acres 2nd growth jack pine 8-10" in diameter in a rather thin stand. Remainder of area not rock and part that is rock is covered with small poplar.
Lot 3257.

West of Fraser Lake north of C.N.R. Rly. Classed as 3rd class agricultural land on basis of area being largely topographically unsuited for tillage, unfavorable location, and gravelly soil.
Cover: Thin stand of poplar, jack pine and spruce. Pine averages 8-10" in diameter.

Lot 3258.

North of Endako River east of Endako. Classed as 1st class agricultural land. Soil -- 60 acres of deep black muck land covered with willows that could be used advantageously for growing hay and grain crops.
Cover: Excepting area of willow bottom, is covered with 2nd growth. Almost pure jack pine north of swamp averaging 5" in diameter in a moderately dense stand. South of swamp there is some spruce and poplar admixture.

Lot 3260.

North and west of Fraser Lake. Classed as forest land on basis of gravelly sandy loam soil too light for farm use.
Cover: Whole area covered with 2nd growth. North west 100 acres carry thin stand 4" jack pine while south east 60 acres carry poplar spruce pine mixture the pine being slightly larger.

Lot 3261.

West and north of Fraser Lake. Classed as forest land on basis of area having very little agricultural soil. Largely rock outcrop.
Cover: Jack pine 2nd growth averaging 7" in diameter within stands. This has some poplar and spruce admixture. Some ties but timber is immature for this purpose.
Lot 3264.

North of Endako River east of Endako. Classed as 3rd class agricultural land on basis of N.W. exposure and soil largely gravel and rock. 

Cover: 40 odd acres jack pine 2nd growth of the size. Most of area carries dense small pine and spruce 2nd growth. On 40 acres mentioned pine averages 10-12" in diameter.

N.W. \( \frac{1}{4} \) Lot 3326.

West of Perow on the Bulkley River. Classed as 1st class agricultural land. Gently sloping bottom land with fairly even surface. Higher portions have largely deep stony fine sandy loam soil.

Cover: Very little.

Unsurveyed \( \frac{1}{4} \) Sec. N. of W.\( \frac{1}{4} \) L. 3447.

North of Bulkley River at Houston. Classed as forest land as area is largely topographically unfit for tillage, and cost of development is high. 

Cover: Largely moderately dense 6-9" spruce mixed with poplar and alder. Area will be statutory timber land.

Lot 3448.

North of Bulkley River at Houston. Classed as forest land on basis of elevation and unsuitability for agricultural development. 

Cover: 2nd growth. In the north this is moderately dense 8" spruce mixed with thinner 3" lodgepole pine and smaller poplar. S.W. 35 acres -- young cover -- largely poplar and alder with thin scattering of 5" spruce.

S. \( \frac{1}{4} \) Lot 3449.

North of Bulkley River west of Knockholt. Classed as 2nd class agricultural land due to light stony soil.

Cover: Moderately dense stand of 10" poplar and thinner scattering of 3" spruce seen from W. bdy.
N. ½ Lot 3449.

North of Bulkley River west of Knockholt. Classed as forest land on the basis of impossible farm soil.

Cover: Central W. 60 acres carry stand of moderately dense 8" lodgepole pine, poplar and alder that will yield a few ties and south of this are 20 acres of poplar spruce 2nd growth averaging 6" in diameter. Eastern part of area is old burn covered with small poplar.

N. ½ Lot 3450

North of Bulkley River west of Knockholt. Classed as 2nd class agricultural land on account of gravelly soil.

Cover: Largely poplar reproduction.

Unsurveyed ¼ sec. N. of Lots 3450 & 3451.

North of Bulkley River west of Knockholt. Classed as forest land on the basis of elevation and steeply sloping surface. Soil very gravelly.

Cover: 10 acres of thin big jack pine mixed with poplar in S.E. and few acres of jack pine 2nd growth in S.W. Remainder largely poplar covered.

E. ¼ Lot 3452.

North of Bulkley River at Knockholt. Classed as 1st class agricultural land. Gentle slopes and southern exposure. Deep stony silt loam and badly burnt clay well supplied with plant food minerals and well suited for crop production.

Cover: 25 acres big spruce timber averaging 10" in diameter will yield sawlogs and good building material for farm buildings. Remainder of area has been burnt over.
W. 1/2 Lot 3452.

North of Bulkley River at Knockholt. Classed as 2nd class agricultural land on basis of high cost of development. S.W. 60-70 acres largely suited for crop use being deep stony silt and clay loams.

Cover: 12 acres big spruce and lodgepole pine. Remainder is recent burn without reproduction.

S.E. 1/4 Lot 3454.

North of Bulkley River at Knockholt. Classed as 2nd class agricultural land on basis of rock outcrop, ununiform soil and steeply sloping surface.

Cover: Poorly stocked with timber species but would reseed to spruce of which there is a little reproduction.

S.W. 1/4, N.W. 1/4 & N.E. 1/4 Lot 3454.

North of Bulkley River at Knockholt. Classed as forest land on basis of elevation very steeply sloping surface and considerable rock outcrop.

Cover: Largely small poplar having been burnt recently. Some jack pine in draw along N. bdy. will average 5" in diameter. Also a little spruce reproduction here and there.

Lot 3464.

North of Bulkley River at Knockholt. Classed as forest land on the basis of steep slopes, rocky soil and inaccessibility.

Cover: About 1/4 area appeared to be growing young lodgepole pine but large part of south 1/4 was covered with small poplar.

Lot 3529.

East of Conrad Lake. Classed as 1st class agricultural land on the basis of level surface, southern aspect and deep uniform stony silt loam in good condition.
Lot 3529. (Cont).

Cover: Will yield some ties at present. South 100 acres carry a mixed stand of largely lodgepole pine 6" in diameter. Pine in north ½ is younger.

N.W. ⅓ Lot 3536.

South half of lot fronts on Rose Lake. Classed as 1st class agricultural land. Gently rolling surface with a southern exposure. Soil very stony deep silt loam.

Cover: S. 40 acres carry dense lodgepole pine stand averaging 6" in diameter. Remainder of area pine is mixed with young spruce and poplar but is about the same size.

South East Fraction Lot 3538.

East of Rose Lake. Classed as 1st class agricultural land. Large area of tillable land with deep stony silt loam soil. Near railway station.

Cover: Lower half of area is 6" pine and 4" poplar, which in 25-30 years will make good ties. Rest of area excepting 40 acres of poplar and 10 acres of grass meadow is dense stand of 3-4" pine and spruce reproduction.

N.W. ⅓ Lot 3538.

East of Rose Lake. Classed as 2nd class agricultural land on the basis of stony soil and very uneven surface.

Cover: 60 acres are merchantable 8" jack pine and spruce reproduction. 8 acres of remainder are poplar. Rest (92) acres are a dense stand of 3-4" jack pine and spruce reproduction.

N.E. ⅓ Lot 3538.

North east of Rose Lake. Classed as 2nd class agricultural land as soil is too gravelly for teneral farm practice.
Cover: Near E. bdy. there are 15 acres of poplar. Rem. of 1/2 is dense stand of 3-4" Jack pine and spruce reproduction.

E. 1/4 of Lot 3541.

East of Rose Lake. Classed as forest land as area is very broken, gravelly and rocky.
Cover: 65 acres of Jack pine and spruce 2nd growth. 20 acres of swamp carry big spruce timber averaging 8" or more in diameter.

W. 1/4 of Lot 3547.

North of Palling Station. Classed as 1st class agricultural land. Southern aspect and nearly level surface. Excepting 10 acres of peat and small pockets of pure sand, soil is deep sandy "silt loam."
Cover: 100 acres of 5" Jack pine which will yield ties in 30 years. Spruce reproduction will form good protection for soil when trees are cut. 20 acres of Jack pine in north of lot have been burnt.

S.W. 1/4 of Lot 3548.

North of west end of Decker Lake. Classed as 1st class agricultural land. 85 acres of deep stony silt loam of good quality. Poplar form large part of cover and the soil is in good condition.
Cover: Area has been logged for ties. The pine left is small.

Fraction S.W. 1/4 L. 3551.

North east of Rose Lake. Classed as 1st class agricultural land. Soil is largely deep stony silt loam that is a desirable type and will eventually be very fertile.
Cover: E. 1/4 quarter and W. 40 acres are a dense stand of 6" Jack pine plus very young spruce. Remainder is a moderate stand of 6" Jack pine plus spruce reproduction and 4" A. Area carries 1000 ties at present.
N.W. 1/2 Lot 3551.

North east of Rose Lake. Classed as 1st class agricultural land. Gently sloping land, with general slope to the south. Soil is mostly a deep stony silt loam of a loose texture.
Cover: W. 1/4 and S.E. cor. of quarter is dense 6" Jack pine plus spruce reproduction. Remainder of lot is moderate stand of Jack pine 6", A. 4" and spruce reproduction. No mature timber.

N.E. 1/2 Lot 3551.

East of Rose Lake. Classed as 2nd class agricultural land on the basis of gravelly soil. Area has a gently rolling surface and a southern exposure.
Cover: Barring fires all area excepting 20 acres of poplar would yield ties in 20 or 30 years being covered with a moderate stand of lodgepole pine averaging 6" in diameter with poplar and spruce mixture.

S.E. 1/4 Lot 3552.

North of Bulkley River near Knockholt. Classed as 2nd class agricultural land on the basis of small percent of area of low stone content.
Cover: Area is not stocked with timber species but would grow timber.

S.W. 1/4 Lot 3552.

North west of Bulkley River at Perow. Classed as 3rd class agricultural land on the basis of soil being unsuited for tillage. Southerly exposure. Largely gently sloping land.
Cover: Recent heavy burn with all timber species practically wiped out.

N.W. 1/2 & N.E. 1/4 Lot 3552.

North of Bulkley River near Perow. Classed as 3rd class agricultural land on the basis of area being largely too stony for tillage.
Cover: Area largely burnt with very little reproduction.
Unsurveyed Sections N. & N.W. of Lot 3552.

North of Bulkley River west of Perow. Classed as forest land on the basis of being largely gravelly and rocky soil. Soil would be dry and area would be "hungry" farm land. General exposure is toward the south.

Cover: About 30 acres of small lodgepole pine, spruce and poplar 2nd growth in the north.


West of Perow north west of the Bulkley River. Classed as forest land as the soil could not be economically irrigated and is unsuited for tillage.

Cover: About 340 acres carry lodgepole pine 2nd growth of varying size and density. Remainder of area is an almost bare burn but carrying some small poplar of varying density.

N.E. 1/4 Lot 3552.

North of Bulkley River at Perow. Classed as 1st class agricultural land. Southerly exposure. Small brook through area will give good water supply. Soil is largely deep clay loam that has been badly burnt but is recovering the lost nitrogen and humus through the poplar cover.

Cover: Small poplar with exception of 10 acres of dense 3" poplar and pine mixture in the west.

S.W. 1/4 Lot 3560.

North of the Bulkley River at Perow. Classed as 2nd class agricultural land on the basis of creek canyons. It is of use for pasture.

Cover: No coniferous forest but poplar would eventually yield pulp timber and other species would soon come in.

N.W. 1/4 Lot 3560.

North of the Bulkley River at Perow. Classed as 1st class agricultural land. Southerly exposure. Largely gently sloping surface and soil is all right from the farming point of view except in the canyon where rock outcrops.
N.W. ½ Lot 3560. (Cont'd).

Cover: Entirely poplar 2nd growth most of which is very small.

S.E. ½ Lot 3561.

North of the Bulkley River at Perow. Classed as 2nd class agricultural land as area is largely topographically unsuited for tillage. Of use as range or hay land.

Cover: Dense stand of young poplar under 3" in diameter and has no stocking of coniferous species.

Lot 3565-A.

North of the Bulkley River east of Perow. Classed as 2nd class agricultural land on the basis of deep gravelly sandy loam and coarse sand soil of little agricultural value outside of pasture. Gently southerly exposure and a fairly even surface.

Cover: Excepting about 10 acres of lodgepole pine 2nd growth, the area is covered with small poplars.

S.W. ¼ Lot 3565.

North of the Bulkley River east of Perow.
Classed as 2nd class agricultural land on the basis of light soil and rolling surface.
Cover: No reproduction of coniferous species.

N.W. ¼ Lot 3565.

North of the Bulkley River east of Perow.
Classed as 2nd class agricultural land on the basis of low water holding capacity and location. Area has a gently rolling surface and a general southern slope.
Cover: Entirely deciduous 2nd growth.

E. ½ Lot 3565.

North of the Bulkley River east of Perow.
Classed as 2nd class agricultural land as soil contains considerable stone and area would be "hungry" land.
Cover: 20 acres only of coniferous forest which is a thin stand of lodgepole pine 6-8" in diameter.
Lot 3576.

Just north of and bordering the Endako River 3 miles west of Savory. Classed as 3rd class agricultural land on the basis of low water holding capacity of soil.

Cover: 80 acres of Jack pine 2nd growth in S.E. 1/4 that will soon yield a second crop of ties. S.W. 1/4 is also largely pine which is smaller, averaging 7" in diameter. A large part of remainder is deciduous.

S.E. 1/4 Lot 3579.

North of the Endako River west of Savory station. Classed as 3rd class agricultural land on the basis of northern exposure, and deep gravelly silt loam too stony to be intensively cultivated.

Cover: Excepting 20 acres of willow bottom, area is a dense stand of Jack pine and spruce reproduction averaging 5-6" in diameter.

S.W. 1/4 Lot 3579.

North of the Endako River east of Priestly. Classed as 3rd class agricultural land on the basis of location, contour, clearing, and 95 gravelly acres.

Cover: Excepting 25 acres of willow swamp area carries dense stand of Jack pine and spruce reproduction averaging 5-6" in diameter.

N.W. 1/4 Lot 3579.

North of Endako River east of Priestly. Classed as 2nd class agricultural land on the basis of northern exposure and lack of roads. Soil is largely deep silt loam--20 acres of more of fine sandy loam in N.W. cor. Southern half of area is too stony for cultivation.

Cover: About 40 acres of young deciduous forest mostly dense poplar 3-4" in diameter. In the N.E. cor. there are 40 acres of spruce, poplar and pine mixture of which pine is 6" in diameter.

N.E. 1/4 Lot 3579.

North of Endako River east of Priestly. Classed as 3rd class agricultural land on the basis of gravelly soil.
N.W. ¼ Lot 3581 (Cont'd)

Cover: 2nd growth. On the N.E.—30 acres moderately dense Jack pine averaging 7-8" in diameter. Just south are 60 acres of dense poplar 3" in diameter and young spruce. Also few 5-6" Jack pine. S. portion is a moderately dense stand of 5-6" Jack pine and spruce.

S.E. ¼ L. 3581.

North of the Endako River and east of Priestly. Classed as 2nd class agricultural land on the basis of northern exposure, stony soil and cost of development.

Cover: Excepting poplar area, cover is dense 2nd growth. Jack pine 5-6" in diameter. There are 10 acres of 7-8" pine along the south boundary.

S.W. ¼ Lot 3581.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. S.W. exposure and largely gently sloping surface. Soil is largely deep fine sandy loam of fair quality and deep stony silt loam.

Cover: S.W. 30 acres carry poplar and spruce 2nd growth with a few 6" Jack pine interspersed. Poplar averages 3" in diameter. N. part of area is covered with dense 5-6" Jack pine.

N.W. ¼ Lot 3581.


Cover: Central 120 acres covered with a dense stand of young spruce. Remainder is 5-6" Jack pine.

N.E. ¼ Lot 3581.

North of the Endako River and east of Priestly. Classed as 1st class agricultural land. Largely deep stony silt loam suited for cultivation.
M.E. ½ Lot 3581 (Cont’d)

Cover: Excepting willow swamp area is covered with 5-6” Jack pine and younger spruce in a dense stand.

S.E. ½ Lot 3582.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of rolling surface and north easterly exposure, stony soil and location.

Cover: Considerable tie timber and will be a good logging proposition in a few years. Largely Jack pine—a rather thin stand on most of area. Averages nearly 10” in diameter in parts of S.W. portion but remainder is smaller.

S.W. ¼ Lot 3582.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of stony soil.

Cover: 2nd growth mostly Jack pine 4-8” in diameter. Some young spruce in central north. Quite a number of ties on area but they are scattered.

N.W. ¼ Lot 3582.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of northerly exposure, elevation, cost of development and rather inaccessible location.

Cover: South of swamp dense stand of 2nd growth Jack pine averaging 5” in diameter. Little admixture of spruce and poplar.

N.E. ¼ Lot 3582.

North of the Endako River and west of Savory. Classed as 3rd class agricultural land on basis of north easterly exposure, and very stony deep silt loam soil with boulders and rock outcrop.

Cover: Excepting lake and swamp area is covered with a stand of Jack pine and spruce 2nd growth with patches of poplar. Pine and spruce run 3-8” in diameter.
S.S. 1/4 Lot 3583.

North of the Endako River east of Priestly Station. Classified as 3rd class agricultural land on the basis of westerly exposure, inaccessibility and very gravelly soil.


S.W. 1/4 Lot 3583.

North of Endako River and east of Priestly. classified as 1st class agricultural land. South westerly exposure, gently sloping surface and largely deep stony silt loam soil suitable for crop use and of good water-holding capacity.

Cover: Stand of Jack pine and spruce 2nd growth. Pine is from 3-8" in diameter in a rather thin stand.

N.W. 1/4 Lot 3583.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. Gently sloping surface, south westerly exposure and deep stony silt loam soil of good water-holding capacity and well suited to crop use.

Cover: Moderately thin stand of spruce and Jack pine 2nd growth. Pine runs 3-8" in diameter.

N.E. 1/4 Lot 3583.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. South westerly exposure, gently sloping surface and deep stony silt loam soil of good water-holding capacity.

Cover: Fairly dense stand of 2nd growth spruce and pine, excepting swamp area. Pine runs 3-8" in diameter.

S.E. 1/4 Lot 3584.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. N.W. exposure and largely gently sloping surface. Soil is deep stony silt loam of good quality rich in all plant foods excepting nitrogen. Area is suited for mixed farm crops.
S.E. 1/4 Lot 3584. (Cont'd)

Cover: Dense stand of 2nd growth Jack pine and younger spruce. Pine runs 3-6" in diameter.

S.W. 1/4 Lot 3584.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. N.W. exposure, gently sloping surface and deep stony silt loam soil of good quality and suitable for mixed farm use.

Cover: S. 1/4 area carries dense stand of young growth 10' high. 40 acres in N.W. corner are covered by stand of Jack pine 2nd growth averaging about 6" in diameter. N.E. corner of area carries a thicker stand of pine mixed with young spruce. Pine is a little smaller in diameter.

N.W. 1/4 Lot 3584.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. Even surface and largely deep stony silt loam soil. Whole area excepting small part which is steeply sloping, will be found suited for intensive farm practice.

Cover: Dense stand of 2nd growth Jack pine and young spruce. Pine averages about 5" in diameter and will yield little tie timber at this time.

N.E. 1/4 Lot 3584.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. Gently sloping surface, and deep stony silt loam soil of good quality and admirably suited to crop production.

Cover: Dense stand of 2nd growth pine and young spruce. Pine averages about 6" in diameter.

S.E. 1/4 Lot 3585.

North of Endako River and east of Priestly. Classed as 2nd class agricultural land on the basis of badly broken surface.

Cover: With slight exception, 2nd growth mostly Jack pine and considerable young spruce east of creek and some spruce timber in creek draw. Pine runs mostly from 6-12" in diameter and will yield some ties although immature for the purpose.
S.W. ¼ Lot 3585.

North of Endako River east of Priestly.
Classed as 1st class agricultural land. Southerly exposure and deep stony silt loam soil of good water holding capacity and suited to crop production.
Cover: 2nd growth Jack pine, poplar and spruce. E. 60 acres will yield some ties as there are a considerable number of trees from 8-12" in diameter. On the western portion pine is smaller.

N.W. ¼ Lot 3585.

North of Endako River and east of Priestly.
Classed as 2nd class agricultural land on the basis of stony soil, and cost of development.
Cover: Largely poplar 3-4" in diameter.
Also few Jack pine, scattered 8-12" in diameter. These would yield a few ties.

N.E. ¼ Lot 3585.

North of the Endako River and east of Priestly.
Classed as 1st class agricultural land. Southern exposure, largely gently rolling surface. There is considerable creek bottom land that could be easily irrigated. Soil largely deep fine sandy loam and 20 acres silty land in S.W. corner. Most of area is suitable for cultivation.
Cover: Reproduction. In the east this is spruce and Jack pine 2-3" in diameter and in west is largely poplar with a few Jack pine trees scattered, run 8-12" in diameter.

S.E. ¼ Lot 3586.

North of Endako River and east of Priestly.
Classed as 3rd class agricultural land on the basis of steep slopes, and deep gravelly silt loam soil unsuited for intensive cultivation.
Cover: Stand of 2nd growth Jack pine, spruce and poplar. Pine averages 8" in diameter in west but gets smaller towards the east.
S.W. ¼ Lot 3586.

North of Endako River and east of Priestly. Classed as 3rd class agricultural land on the basis of slopes, elevation and low-lying nature.

Cover: Stand of Jack pine, spruce, and poplar 2nd growth. Pine runs 3-5" in diameter.

N.W. ¼ Lot 3586.

North of Endako River and east of Priestly. Classed as forest land on the basis of steeply sloping surface and very stony soil which precludes successful tillage.

Cover: Area has been logged over for ties, and will carry no timber for some time. Largely lodgepole pine 3 and 9" in diameter.

N.E. ½ Lot 3586.

North of Endako River and east of Priestly. Classed as 3rd class agricultural land on the basis of elevation, steeply sloping surface and stony soil unsuited to tillage.

Cover: Small spruce timber, Jack pine and poplar 2nd growth.

S. E. ¼ Lot 3587.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. Gently sloping surface and soil is largely suited for cultivation.

Cover: Largely Jack pine and spruce 2nd growth. Northern 80 acres have considerable proportion of pine trees between 8-12" in diameter.

S.W. ¼ Lot 3587.

North of Endako River and east of Priestly. Classed as 1st class agricultural land. Gently sloping surface, and deep loamy un-uniform soil suited to mixed farm practices.

Cover: Mostly poplar and willow but there are 20 acres of young spruce in the S.E. corner and 40 acres of mixed Jack pine and spruce 2nd growth in the north.
Lot 3588.

North of Endako River and east of Priestly. Classed as forest land on the basis of rock outcrops, which make area unsuited for farm use.
Cover: Largely 2nd growth lodgepole pine between 3 and 9" in diameter. Area has been partly logged.

Lot 3589.

North of Endako River and east of Priestly. Classed as forest land on the basis of steeply sloping surface, and very stony soil which would not be of much use for farm practices.
Cover: Apparently largely 2nd growth 3-9" lodgepole pine.

Lot 3729.

North of Endako River west of Endako. Classed as forest land on the basis of steep slopes and soil being largely rock and decomposing rock.
Cover: Thin stand of Jack pine 15-18" in diameter mixed with poplar and alder.

S.E. 1/4 Lot 3810.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of low water holding capacity of soil.
Cover: S. 1/2 of area has been logged over. Northern portion is largely a stand of 5" poplar. There is still considerable pine growing on southern portion but no young growth is coming in.

S.W. 1/4 Lot 3810.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of thirsty soil and cost of development.
S.W. 1/4 Lot 3810 (Cont'd)

Cover: Area was logged over recently but in places would yield a second crop of ties. It is largely covered with Jack pine 2nd growth averaging 7" in diameter in mixtures with spruce and poplar in moderately dense to thin stands.

N.W. 1/4 Lot 3810.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of steep slope and gravelly sandy loam soil of varying depth with rock outcrop.

Cover: Very little of area carries timber of merchantable species. This is 8" Jack pine with poplar mixture in the S.E. corner.

N.E. 1/4 Lot 3810.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of deep gravelly soil on most of area with rock outcrops--unsuited to cultivation owing to stones.

Cover: Largely logged. S.E. 100 acres carry a stand of 2nd growth Jack pine averaging 6" in diameter with poplar and spruce admixture. N.W. 60 acres is largely poplar.

S.E. 1/4 Lot 3811.

North of Endako River west of Savory. Classed as 1st class agricultural land. Soil--120 acres tillable sandy loam.

Cover: 2nd growth--40 acres of willow and adjoining this area two or three dense stands of Jack pine. On the S.W. portion there is a Jack pine-spruce mixture averaging 6-8" in diameter which will yield some ties. The stand is moderately dense.

S.W. 1/4 Lot 3811.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of gravelly soil.
S.W. 1/2 Lot 3811. (Cont'd)

Cover: Area will grow tie timber. No information concerning poplar growth or average diameters. Pine likely averages 6-8" in a moderate to thin stand.

N.W. 1/2 Lot 3811.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of gravelly soil, topography and distance from roads.
Cover: 2nd growth mostly Jack pine 5-8" in diameter.

N.E. 1/2 Lot 3811.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of steep slopes and very gravelly soil of varying depth with considerable rock outcrop.
Cover: Largely heavily burnt and mostly covered with poplar. Few acres of small Jack pine in the south.

S.B. 1/2 Lot 3812.

North of Endako River bordering Cheskwa Lake. Classed as 2nd class agricultural land on the basis of northerly exposure and gravelly soil.
Cover: Mostly poplar 2nd growth.

S.W. 1/2 Lot 3812.

North of Endako River and west of Savory. Classed as 2nd class agricultural land on the basis of exposure and low-lying position. Soil is deep stony silt loam of good quality excepting hilly portion.
N. 1/2 Lot 3812.

North of Endako River west of Savory. Classed as 3rd class agricultural land on the basis of steep slopes and poor soil.

Cover: Portion carries moderately dense stand of poplar. 2nd growth poplar, spruce, and pine mixture in S. and E.

N.W. 1/4 Lot 3813.

North of Endako River west of Savory. Classed as 2nd class agricultural land on the basis of northern exposure and stony soil.

Cover: South 3/5 of area have been logged for ties. North of this there are 40 acres of Jack pine 5-6" in diameter in a dense stand and north of this a thin mixture of pine, spruce and poplar 2nd growth (pine averaging 6" in diameter.)

N.E. 1/4 Lot 3813.

North of Endako River and west of Savory Station. Classed as 2nd class agricultural land on the basis of steep slopes. Soil--partly too stony for tillage.

Cover: Fairly dense stand of 4-5" poplar but is capable of growing conifers.

S.E. 1/4 Lot 3814.

North of Endako River near Savory. Classed as 4th class agricultural land. Southern exposure, gently sloping surface and deep stony silt loam soil of good quality.

Cover: Dense stand of 2nd growth pine averaging 6" in diameter. Will yield some ties now but is rather immature.

S.W. 1/4 Lot 3814.

North of Endako River west of Savory. Classed as 1st class agricultural land. S.E. exposure, gentle slopes and deep stony silt loam soil of good quality.

Cover: W. 1/4 of area carries a fairly dense stand of 4-5" poplar. E. 1/4 carries Jack pine stand, the
S.W. ¼ Lot 3814. (Cont'd)

best of which has been logged. Remaining trees average about 6" in diameter.

N.W. ¼ Lot 3814.

North of Endako River and west of Savory. Classed as 3rd class agricultural land on the basis of cold and late exposure and gravelly soil.
Cover: Largely a moderately dense stand of spruce 2nd growth averaging 4" in diameter.

N.E. ¼ Lot 3814.

North of Endako River at Savory. Classed as 3rd class agricultural land on the basis of shallow gravelly soil.
Cover: 5 acres of big spruce near 8. bdy.; remainder 2nd growth. In the N.W. this is largely dense 4" spruce. In S.E. it is a dense stand of 6" Jack pine.

S.E. ¼ lot 3847.

North of central portion of Fraser Lake. Classed as 2nd class agricultural land on the basis of broken surface, rocky gravelly soil and inaccessible location.
Cover: Stand of 2nd growth most of which is 5" Jack pine.

N.W. ¼ Lot 3847.

North of central portion of Fraser Lake. Classed as 2nd class agricultural land on basis of gently rolling surface, and sandy soil inclined to be dry, also location.
Cover: A stand of 2nd growth. 30 acres of willow along the creek, remainder of cover being largely Jack pine, in a dense stand averaging 4-6" in diameter, being mixed with some poplar north of brook.
N.E. 1/4 Lot 3847.

North of central portion of Fraser Lake. Classed as 1st class agricultural land, S.W. exposure, gently rolling surface and soil suited for crop production.

Cover: Moderate to dense stand of Jack pine 2nd growth running from 6-7" in diameter. This is mixed with thinner poplar and there is a little young spruce near creek in S.W. corner.

S.E. 1/4 Lot 3848.

North of Fraser Lake. Classed as 1st class agricultural land. Gentle slope, soil deep clay.

Cover: S.W. 120 acres carry 2nd growth mostly Jack pine, averaging 7" in diameter in moderately dense stands, in centre of area grading into thinner seeded areas in the south where there spruce and poplar admixture.

S.W. 1/4 Lot 3848.

North of Fraser Lake. Classed as 1st class agricultural land. Gently rolling surface, and soil deep white clay.

Cover: 2nd growth. Largely Jack pine which is small in the N. part, averaging 4-5" in diameter. This gets bigger in the S. where it averages 8" in places. Also some fir on the N. part and admixture of poplar and spruce throughout. Area carries some tics now.

N.W. 1/4 Lot 3848.

North of Fraser Lake. Classed as 1st class agricultural land. Gently sloping surface and soil good.

Cover: 110 acres of Jack pine 2nd growth in the S.W. in moderately dense stands averages 6" in diameter and will yield a large quantity of tie timber in 15-20 years. Remainder of area will not carry merchantable timber.
H.E. 1/4 Lot 3848.

North of Fraser Lake. Classed as 1st class agricultural land. Level surface to slight southern slope and soil good.

Cover: N.E. 130 acres carry 2nd growth timber of immature size. 25 acres of this in southern part of block is a mixture of Jack pine, spruce and poplar of moderate density, in which pine averages 7" in diameter. North of this the cover is almost pure pine averaging 4" in diameter in a moderately dense stand.

Lot 3849.

North of north west arm of Fraser Lake.
Classed as 2nd class agricultural land on the basis of cost of clearing and location. Gently sloping surface having suitable soil.

Cover: S.W. corner of area carries a stand of dense poplar while the N.W. corner carries a stand of dense Jack pine. Remainder of area is covered largely with a dense stand of spruce and poplar 6" and 5" in diameter respectively.

Lot 3850.

North of Fraser Lake. Classed as 1st class agricultural land. N.W. exposure, very gently sloping surface and tillable soil.

Cover: Excepting 25 acres of big fir timber in the S.W. area is covered with a dense stand of 2nd growth most of which is Jack pine between 4 and 6" in diameter. Also young spruce mixed with pine on the northern part of area.

S.E. 1/4 Lot 4085.

North of the Badako River at Savory. Classed as 3rd class agricultural land on the basis of steep slopes and soil.

Cover: Area is well stocked with Jack pine 2nd growth and will yield a second crop of timber within 15 years' time. The pine runs from 4-6" in diameter.
S.W. ½ Lot 4085

North of Endako River at Savory. Classed as 3rd class agricultural land on account of low lying nature of 40 good acres rather inaccessible location and high cost of development.

Cover: Has been logged. S. ½ carries a stand of Jack pine 2nd growth averaging about 5' in diameter. East of lake area is largely covered with a stand of 2nd growth spruce and pine of moderate density, averaging 5-6" in diameter. Area west of lake is largely dense small pine.

N.W. ½ Lot 4085

North of the Endako River at Savory. Classed as 3rd class agricultural land on the basis of low lying nature of 25 good acres, rather inaccessible location and high cost of clearing.

Cover: Some big spruce timber in central south but first crop of pine has been logged. Area is covered with a moderately dense stand of Jack pine 2nd growth averaging perhaps 6" in diameter.

N.E. ½ Lot 4085

North of the Endako River at Savory. Classed as 3rd class agricultural land on the basis of steep W. and S.W. slopes, rolling surface, gravelly soil and cost of development.

Cover: All area capable of growing pine tie timber being well stocked with Jack pine averaging about 7" in diameter. Area has been logged but considerable tie timber is left.

S.E. ½ Lot 4091

North of the Bulkley River west of Topley. Classed as 1st class agricultural land. S.W. exposure, gently sloping surface and deep stony silt and stony clay loams of good quality.

Cover: Excepting burn, area is covered with 2nd growth mostly 5-6" lodgepole pine.
N.W. 3 Lot 4091.

North of the Bulkley River and west of Topley. Classed as 1st class agricultural land. S.W. exposure and gently sloping surface. Soil is deep stony silt and clay loams of good quality and well suited for mixed farm use.

Cover: Over half area covered by alders with admixture of 6" lodgepole pine and spruce reproduction. Southern part of area is covered with a dense stand of 5-6" lodgepole pine mixed with alders.

N.E. 1 Lot 4091.

North of the Bulkley River and west of Topley. Classed as 1st class agricultural land. S.W. exposure, gently sloping surface, and area almost all topographically tillable.

Cover: Area is covered with a stand of 2nd growth, mostly lodgepole pine. This would yield ties in 20-30 years' time.

S.E. 1 Lot 4092.

North of Bulkley River and west of Topley. Classed as 1st class agricultural land. Southerly exposure, largely gently sloping surface and soil very well suited to extensive mixed farming.

Cover: S. 60 acres are semi-fire killed 4" lodgepole. Northern portion carries a mixed stand mostly 3-4" poplar with a thin scattering of 6" lodgepole 2nd growth and some spruce reproduction in the north.

S.W. 1 Lot 4092.

North of the Bulkley River west of Topley. Classed as 1st class agricultural land. S.W. exposure and a rolling surface, largely suited for tillage. Soil deep stony silt loam.

Cover: N. 90 acres carry moderately dense 3-4" poplar with a thin scattering of 6" lodgepole pine and spruce reproduction.
N.W. 1/4 Lot 4092.

North of Bulkley River west of Topley.
Classed as 3rd class agricultural land on the basis of uneven surface and soil of a very stony nature.
Cover: Largely a moderately dense stand of 3-4" poplar with a thin scattering of 6" lodgepole pine and some spruce reproduction.

N.E. 1/4 Lot 4092.

North of the Bulkley River, west of Topley.
Classed as 1st class agricultural land. Southerly exposure, largely gently sloping surface and stony deep silt loam soil.
Cover: Largely a moderately dense stand of 3-4" poplar with a thin scattering of 6" lodgepole pine 2nd growth and some spruce reproduction.

1 1/2 Sec. W. of L. 4092, including L. 2153.

North of Bulkley River east of Perow. Classed as 3rd class agricultural land on the basis of steeply rolling surface.
Cover: 140 acres in North East carry a thin to moderately dense stand of 4-5" lodgepole pines. Remainder of timber species wiped out by fire. Would grow good timber in time.

Lot 4093.

North of Bulkley River, west of Topley.
Classed as 3rd class agricultural land on the basis of elevation, broken surface and very stony soil.
Cover: 2nd growth. Largely 5-6" lodgepole pine mixed with poplar and spruce.

Lot 4094.

North of Bulkley River, west of Topley.
Classed as 3rd class agricultural land on the basis of elevation and gravelly soil.
Lot 4094 (Cont'd).

Cover: S.W. 30 acres carry dense poplar and spruce reproduction and 6" lodgepole pine 2nd growth. Remainder is largely dense poplars 12-15 ft. high with a scattering of 6" pine 2nd growth.

S. 1/2 Lot 4095.

North of Bulkley River west of Topley.
Classed as 1st class agricultural land. South to south westerly exposure, gently sloping surface, soil being well suited to mixed farm use.

Cover: Excepting 40 acres of moderately dense 5" lodgepole pine 2nd growth, area is old burn with thin cover of small poplar and elder.

N. 1/2 Lot 4095.

North of Bulkley River west of Topley.
Classed as 2nd class agricultural land on the basis of elevation.

Cover: Largely a thin stand of young poplar. There is no coniferous reproduction on area.

S.E. 1/4 Lot 4136.

North of Endako River east of Priestly.
Classed as 2nd class agricultural land on the basis of steep slopes and very stony soil.

Cover: Largely deciduous forest and will not grow timber before in demand for farm use.

S.W. 1/4 Lot 4136.

North of Endako River east of Priestly.
Classed as 2nd class agricultural land on the basis of elevation, steep slopes and very stony soil.

Cover: 30 acres of 2nd growth coniferous forest. Remainder--deciduous trees.
N.W. ¹/₂ Lot 4136.

North of Endako River, east of Priestly. Classed as 3rd class agricultural land on the basis of elevation, steep slopes and gravelly soil with rock outcrop.

Cover: ¾ of area carries a stand of Jack pine 2nd growth, the best of which was recently logged. Remainder average 6" in diameter. South portion is largely covered with deciduous forest.

N.E. ¹/₂ Lot 4136.

North of Endako River, east of Priestly. Classed as 3rd class agricultural land on the basis of steep slopes and poor soil.

Cover: 65 acres of Jack pine 2nd growth in the N.W. corner have been logged recently for ties. Trees average about 6" in diameter. S.E. portion of area is covered with poplar.

S.E. ¹/₂ Lot 4136.

North of Endako River at Priestly. Classed as 2nd class agricultural land on the basis of elevation, badly broken surface and very stony soil.

Cover: Southern 90 acres carry a stand of Jack pine, spruce and poplar. The pine averages 6-7" in diameter in varying stand but will yield some ties though immature for this.

S.W. ¹/₂ Lot 4139.

North of Endako River at Priestly. Classed as 2nd class agricultural land on the basis of elevation, steeply sloping surface and very stony soil.

Cover: South 60 acres carry a stand of spruce, Jack pine and poplar 2nd growth. Northern portion carries a pure poplar stand. The pine averages 6-7" in diameter. Will yield some ties but is patchy.
N.W. 1/4 Lot 4139.

North of Endako River at Priestly. Classified as 3rd class agricultural land on the basis of elevation, mountainous slopes and rocky soil. Cover: Jack pine and poplar 2nd growth, of which the former averages 6″ in diameter.

N.E. 1/4 Lot 4139.

North of Endako River at Priestly. Classified as 3rd class agricultural land on the basis of elevation, steep slopes and gravelly soil with rock outcrops. Cover: About 100 acres of area carry some Jack pine 2nd growth, remainder being largely poplar. The pine runs from 4-10″ in diameter but few of the larger sizes are left as area has been logged.

S.W. 1/2 Lot 4140.

North of Endako River at Priestly. Classified as 2nd class agricultural land on the basis of broken surface and stony soil. Cover: Northern half of area is covered with dense poplar. Southern half of area carries a stand of Jack pine and spruce 2nd growth. This area is largely logged over.

S.E. 1/2 Lot 4140.

North of Endako River west of Priestly. Classified as 1st class agricultural land. Southern exposure with a gently rolling surface. Soil is largely suited for tillage. Cover: Area is poorly stocked with merchantable species but practically entirely covered with poplar.

E.W. 1/2 Lot 4140.

North of Endako River just west of Priestly. Classified as forest land on the basis of elevation, steep slope and shallow gravelly soil, mostly disintegrating rock.
N.W. ¼ Lot 4140 (Cont'd)

Cover: Only poplar at this time. The stand is dense and average diameter is about 3-5".

N.E. ¼ Lot 4140.

North of Endako River at Priestly. Classed as 3rd class agricultural land on the basis of elevation, steep S.W. exposure, and very stony soil.

Cover: Largely a fairly dense stand of poplar 3-5" in diameter. Also a little 2nd growth Jack pine.

S.E. ¼ Lot 4143.

North of Endako River at Priestly. Classed as 1st class agricultural land. Southern exposure and deep silt loam soil admirable for mixed farm use.

Cover: Moderately dense stand of spruce and Jack pine 2nd growth with some poplar admixture in the S.W. Part of area has been logged. The spruce averages 6" in diameter and the pine almost 9". Area will yield some tie timber at present but growth is a little small yet.

N.W. ¼ Lot 4143.

North of Endako River just west of Priestly. Classed as 3rd class agricultural land on the basis of elevation, steep slopes, and gravelly boulder-strewn soil.

Cover: Moderate stand of Jack pine, spruce and poplar 2nd growth. The pine averages about 6" in diameter.

S.E. ¼ Lot 4143.

North of Endako River at Priestly. Classed as forest land on the basis of elevation, steep southern slope. Area is largely rock and disintegrating rock.

Cover: Largely growth of small poplar. Some spruce is coming in along the west boundary.
N.W. 1/4 Lot 4144.

North of Endako River east of Sheraton. Classed as 3rd class agricultural land on the basis of elevation, and very stony soil. Cover: Moderately dense stand of Jack pine and spruce 2nd growth which will yield considerable quantity of ties in the eastern part where it run 5-10" in diameter. Portion of west stand is fire injured.

N.E. 1/4 Lot 4144.

North of Endako River, east of Sheraton. Classed as 3rd class agricultural land on the basis of elevation, rolling surface and deep gravelly soil unsuited for such cultivation. Cover: Moderately dense stand of Jack pine, poplar and spruce 2nd growth. Pine averages nearly 9" in diameter in western part of area and will yield ties. It is smaller toward the east.

E. 1/4 Lot 4147.

North of Endako River, east of Sheraton. Classed as 3rd class agricultural land on the basis of elevation, rolling surface and gravelly soil, also cost of development. Cover: Fire-killed timber most of which was Jack pine. No reproduction as yet.

S.E. 1/4 Lot 4148.

North of Endako River at Sheraton. Classed as 3rd class agricultural land on the basis of steep slopes and deep gravelly soil poorly suited to cultivation, owing to stones. Cover: Only 20 acres of live timber visible. This is Jack pine 2nd growth averaging almost 8" in diameter in a moderately dense stand.
**S.W. 1/4 Lot 4148.**

North of Endako River at Sheraton. Classed as 2nd class agricultural land. Gently rolling surface but only 65 acres of farm soil.

Cover: Fire-killed Jack pine.

**N.W. 1/4 Lot 4148.**

North of Endako River at Sheraton. Classed as 3rd class agricultural land on the basis of slopes, and stony soil.

Cover: Burn with little reproduction as yet.

**N.E. 1/4 Lot 4148.**

North of Endako River at Sheraton. Classed as 3rd class agricultural land on basis of elevation and deep gravelly soil.

Cover: No strip run on area -- appears covered with fire-killed lodgepole pine.

**N.E. 1/4 Lot 4149.**

North of Endako River at Sheraton. Classed as 2nd class agricultural land on basis of dry soil.

Cover: 50 acres of 2nd growth Jack pine in N.E. corner that have escaped fires and will yield ties. Pine averages 8” in diameter in a moderately dense stand.

**N.E. 1/4 Lot 4152.**

Bordering the east end of Fraser Lake. Classed as 3rd class agricultural land on the basis of steeply rolling surface and gravelly, un-uniform soil.

Cover: No strips were run on area -- appears to be largely covered with 3-5” poplar.

**N. 1/8 Lot 4155.**

Short distance north of east end of Burns Lake. Classed as 2nd class agricultural land on basis of gravelly soil and steep slopes.

Cover: Moderately dense stand of poplar averaging 5” in diameter.
**E. 1⁄2 Lot 4156.**

On north side of east end of Burns Lake. Classed as 3rd class agricultural land on the basis of steep slopes and rock outcrop.

Cover: Excepting 10 acres of 7" Jack pine in N.W. corner, area is covered with fairly dense 5" poplar.

**S.E. 1⁄4 Lot 4158.**

North of east end of Burns Lake. Classed as 3rd class agricultural land on basis of elevation, steep slopes and gravelly soil unsuited for tillage.

Cover: 80 acres in east carry stand of 8-10" Jack pine in a moderately dense stand that will yield ties but is rather immature for this. Remainder of area carries a stand of poplar.

**S.W. 1⁄2 Lot 4158.**

North of east end of Burns Lake. Classed as 3rd class agricultural land on basis of steeply sloping surface and gravelly soil.

Cover: About 80 acres of 2nd growth Jack pine. Remainder is covered with poplar. Most of pine averages 6" in diameter in a dense stand but there are at least 15 acres of thinner seeded big trees running 10-12" in diameter.

**N.E. 1⁄2 Lot 4158.**

North of east end of Burns Lake. Classed as forest land on basis of elevation, gravelly soil, and being topographically unsuited for tillage.

Cover: At least 10 acres of 10-12" Jack pine that will yield ties. 40 acres of poplar land. Remainder of area carries 2nd growth mixture of which Jack pine predominates. Would likely average 6" in diameter.
S.E. 1/2 Lot 4161.

North of Burns Lake at Tintagel. Classed as 2nd class agricultural land on the basis of elevation, steep slopes and stony soil.

Cover: Fairly dense stand of 6-8" Jack pine 2nd growth.

S.W. 1/2 Lot 4161.

North of Burns Lake at Tintagel. Classed as 3rd class agricultural land on the basis of steeply sloping surface and stony soil unsuited for tillage.

Cover: 2nd growth Jack pine and spruce.

Pines runs from 4-9" in diameter.

N.W. 1/2 Lot 4161.

North of Burns Lake at Tintagel. Classed as 3rd class agricultural land on the basis of elevation and very stony soil.

Cover: 2nd growth, excepting 4 acres of 18" spruce along creek in the east. 2nd growth is largely Jack pine, poplar and spruce mixture in moderately dense to patchy stands. Pine runs 4-8" in diameter.

N.E. 1/2 Lot 4161.

North of Burns Lake at Tintagel. Classed as 3rd class agricultural land on the basis of elevation, very stony soil, and cost of development.

Cover: 105 acres of fairly dense big spruce and balsam timber running 12-18" in diameter. Most of remainder is mixture of 8-10" Jack pine and younger Jack pine and spruce.

N.E. 1/2 Lot 4164.

North of Burns Lake. Classed as 3rd class agricultural land on the basis of elevation and stony soil.

Cover: Half is a severe recent burn. 30 acres of good tie timber in the N.E. and 50 acres of young 2nd growth spruce and Jack pine in the south.
S. 1/4 Lot 4166.

North of center of Burns Lake. Classed as 3rd class agricultural land on the basis of elevation, gently rolling surface and rocky land of un-uniform quality.

Cover: Area appears to be largely burn in west but there is a stand of lodgepole pine that will yield considerable tie timber in the east.

N.W. 1/4 Lot 4165.

North of Burns Lake. Classed as forest land on the basis of elevation, steep slope and soil decomposing rock.

Cover: Near brook in west there are nearly 20 acres of big timber, being spruce and balsam. Also 20 acres recent burn and 20 acres of poplar. Remainder of area carries 2nd growth spruce and Jack pine in dense stands.

N.E. 1/4 Lot 4166.

North of Burns Lake. Classed as forest land on the basis of elevation, steep southern slope and rocky land.

Cover: Excepting 40 acres area carries 2nd growth Jack pine and poplar. South of brook on east boundary pine is fairly large averaging about 8" in diameter but on west it is small in diameter in dense stands.

Lot 4167.

North of Burns Lake. Classed as forest land on the basis of elevation, northerly exposure and soil.

Cover: Parts of area have fire injured lodgepole pine cover, but most of area is burn.

Lot 4168.

North of west end of Burns Lake. Classed as 3rd class land on the basis of elevation, rolling surface, un-uniform gravelly and rocky soil.
Lot 4168, (Cont'd).

Cover: 160 acres 2nd growth lodgepole pine and spruce in N. ¾ of area that escaped fire likely average 6" in diameter. Excepting 40 acres more of this description in the south, remainder of area is burn.

N. ¼ Lot 4169.

North of Burns Lake. Classed as forest land on the basis of elevation, broken surface and rocky nature.

Cover: Area carries little stocking of timber species except on portions of north slopes where there is some live spruce 2nd growth.

N.E. ¼ Lot 4171.

North of west end of Burns Lake. Classed as forest land on the basis of steep slopes and very rocky and gravelly land.

Cover: North of lake—2nd growth lodgepole pine, spruce and poplar. Most of pine is about 5-6" in diameter. South of lake all timber has been fire-killed.

N. ½ Lot 4172.

North of Burns Lake, east of Burns Lake Station. Classed as forest land on the basis of elevation, steep mountain slopes and rocky soil.

Cover: Excepting 40 acres in S.W. does not carry timber species. S.W. 40 acres carry a stand of young spruce.

S. ¼ Lot 4174.

North of west end of Burns Lake. Classed as 2nd class agricultural land on the basis of stony soil and unfavorable topography.

Cover: Largely young poplar but is fairly well stocked with spruce 2nd growth and would in time seed itself to spruce.
N.W. 1/4 & N.E. 1/4 Lot 4176.

North of West end of Burns Lake. Classed as forest land on the basis of mountain slopes and rocky soil.

Cover: None.

Lot 4177.

North of Burns Lake. Classed as 2nd class agricultural land on the basis of stony fire injured soil. 18 acres are in hay.

Cover: 40 acres of poplar and spruce reproduction is partly injured by fire. Immediate forest value is small but area is capable of growing timber.

S.E. 1/2 Lot 4178.

North of west end of Burns Lake. Classed as 3rd class agricultural land on the basis of elevation, badly broken surface and very stony soil.

Cover: Dense stand of 4-5" poplar.

N.W. 1/2 Lot 4178.

North of west end of Burns Lake. Classed as 3rd class agricultural land on the basis of steep slopes, uneven surface and very stony soil.

Cover: 55 acres of Jack pine and young spruce 2nd growth in a thin stand averaging 5-6" in diameter.

N.E. 1/2 Lot 4178.

North of west end of Burns Lake. Classed as forest land on the basis of elevation, uneven surface and very stony soil.

Cover: 50 acres of 8" Jack pine in the east in a thin stand that will yield some ties but timber on remainder of area is largely immature. Whole area carries reproduction.
N.½ Lot 4172.

North of west end of Burns Lake. Classed as 3rd class agricultural land on the basis of very stony soil.
Cover: Half area carries dense young pine 2nd growth and about 20 acres of this will average 8" in diameter.

S.E. ¼ Lot 4182.

North of Rose Lake. Classed as 1st class agricultural land. Slight southern slope and deep stony silt loam soil.
Cover: No merchantable timber on the lot. Area is covered with lodgepole pine second growth 6" in diameter.

S.W. ¼ Lot 4182.

Cover: Excepting scattered ties there is no timber of merchantable size. Largely a stand of Jack pine averaging 6" in diameter with some spruce reproduction in the S.E.

N.W. ½ Lot 4182.

North of Rose Lake. Classed as 3rd class agricultural land on the basis of elevation.
Cover: N. ½ of area is entirely covered with a dense stand of Jack pine. S. ½ has 30 acres which will carry a good stand of ties within 20-30 years; also stocked with spruce.

N.E. ¼ Lot 4182.

North of Rose Lake. Classed as 1st class agricultural land. Southern exposure and uniform deep stony silt loam soil rich in mineral plant food.
Cover: Doubtful whether northern forty acres of dense Jack pine will mature owing to density. Remainder of area is covered with a thinner stand however and will likely produce good ties in 25 years. Also considerable young spruce reproduction.
B. 1/2 Lot 4183.

North of Rose Lake. Classified as 1st class agricultural land. Gently rolling surface, southern exposure and deep stony silt loam soil of good water-holding capacity.

Cover: 2nd growth most of which is immature for tie timber. Some ties have been cut from east centre of area and there are 35 acres of Jack pine averaging 7" in diameter in the north that will yield some ties.

W. 1/8 Lot 4183.

North of Rose Lake. Classified as 1st class agricultural land. Deep stony silt loam soil in good physical condition.

Cover: 160 acres of Jack pine at present unmerchantable but will make a good tie stand in about 30 years. 28 south central acres have been logged over.

E. 1/4 Lot 4184.

North of Rose Lake. Classified as 2nd class agricultural land on the basis of elevation and stony soil.

Cover: Pine predominates. Will reach tie size in 15 years, being 7" in diameter now. No spruce reproduction.

W. 1/8 Lot 4184.

North of Rose Lake. Classified as 2nd class agricultural land on the basis of broken surface and rocky soil.

Cover: Excluding 50 acres of poplar and willow area is covered with lodgepole pine 2nd growth in moderately dense stands averaging about 6" in diameter. Pine is too small for tie timber at present.

N. 1/8 Lot 4185.

East of south end of Decker Lake. Classified as forest land on the basis of steep slopes and very rocky soil.
N. 1/8 Lot 4185. (Cont'd)

Cover: 20 acres burnt over without reproduction. Remainder carries dense Jack pine 4-5" in diameter.

S.W. 1/4 Lot 4185.

North of Rose Lake. Classified as 1st class agricultural land. Southern exposure and largely deep stony silt loam soil.
Cover: No mature timber. 2nd growth will not have time to mature. N. 3 of area is covered with a dense stand of 5" pine while S. portion is a thinner stand of mixed poplar and pine, and will carry a few ties.

N.W. 1/4 Lot 4186.

North of Rose Lake. Classified as 1st class agricultural land. Gentle southern slope and very desirable agricultural soil.
Cover: No mature timber. Whole area carries a fairly dense stand of 2nd growth. South 80 acres carry a stand of pine averaging about 5" in diameter with young spruce admixture. Northern portion is almost pure pine in two sizes. 40 acres will yield ties.

N.E. 1/4 Lot 4186.

North of Rose Lake. Classified as 1st class agricultural land. Even surface, southern exposure and deep uniform stony silt loam of good quality.
Cover: 40 acres of 6" pine in the north central portion of area will yield ties at present but most of area is covered with lodgepole pine averaging 5" in diameter that will mature in 30 years.

Lot 4187.

Northwest of Rose Lake. Classified as 1st class agricultural land. Excellent soil.
Cover: 60 acres of lodgepole pine averaging 6" in diameter in moderately dense stands with admixture of young spruce. This is immature for ties and would yield very few.
S.E. ¼ Lot 4183

North of Rose Lake. Classed as forest land on the basis of elevation and cost of development.
Cover: Excepting 20 acres of willow and poplar 2nd growth lodgepole pine averaging 7" in diameter in moderately dense stands.

S.W. ¼ Lot 4183.

North of Rose Lake. Classed as 2nd class agricultural land on the basis of elevation and stony soil.
Cover: 2nd growth lodgepole pine excepting 11 acres of willow swamps in west and 15 acres of pine, spruce, poplar mixture. Pine averages 6" in diameter and is in moderately dense stands. Below tie size at present.

N.W. ¼ Lot 4183.

North of Rose Lake in the Endako Valley. Classed as 3rd class agricultural land on the basis of elevation and gravelly soil.
Cover: 2nd growth. Northern 30 acres carry a few small spruce saw logs but remainder is as shown on sketch.

N.E. Lot 4183.

North of Rose Lake. Classed as 3rd class agricultural land on the basis of elevation.
Cover: 25 acres at north end of lot covered by thin stand of 7-3" spruce. Remainder of area is covered by fairly dense stand of Jack pine mixed with some younger spruce reproduction. Will yield ties in thirty years.

S.E. ¼ Lot 4183.

North of Rose Lake. Classed as 1st class agricultural land. Deep stony silt loam soil of good quality.
Cover: No mature timber but area is covered with 2nd growth that would yield ties in 15-20 years if allowed to mature. This is largely lodgepole, averaging 6" in diameter with spruce admixture in moderately dense stands.
N.W. ¼ Lot 4189.

North of Rose Lake. Classed as 1st class agricultural land. Deep mellow loam soil of first class quality.

Cover: 60 N.W. acres are covered largely with young deciduous forest. Remainder with a stand of pine and spruce reproduction of moderate density. Pine averages 6" in diameter in the N.E. and the spruce is over 20 feet high. The spruce is younger in the south.

N.E. ¼ Lot 4189.

North of Rose Lake. Classed as 1st class agricultural land. Southern exposure and desirable type of soil.

Cover: 25-30 acres of limby big spruce timber in east centre of area in a rather thin stand. Remainder is 2nd growth lodgepole pine in moderately dense stands averaging perhaps 6" in diameter.

S. ½ Lot 4190.

North of Rose Lake. Classed as forest land on the basis of elevation and gravelly nature.

Cover: S. ½ of area is moderately dense stand of lodgepole pine and spruce timber averaging 10" in diameter. N. ½—apparently largely 2nd growth lodgepole pine of small size.

W. ¼ Lot 4190.

North of Rose Lake. Classed as forest land on the basis of elevation and bady broken surface.

Cover: Moderately dense stand of spruce and lodgepole pine averages 10" in diameter and occupies 30 acres in the S.E. Remainder is thin 2nd growth, largely lodgepole pine, averaging 6" but with some spruce and poplar admixture.

S.E. ¼ Lot 4192.

North of Rose Lake. Classed as forest land on the basis of elevation, steep southern slope and very stony soil unsuited for cultivation.
S.E. 1/4 Lot 4192. (Cont'd).

Cover: Moderately dense stand of 2nd growth lodgepole pine with spruce admixture. This would average about 6" in diameter and is immature for ties.

S.W. 1/4 Lot 4192.

North of Rose Lake. Classed as forest land on the basis of elevation, fairly steep southern exposure and very stony soil.

Cover: Moderately dense lodgepole pine and young spruce 2nd growth. Pine would average about 6" in diameter and is immature for ties.

N.W. 1/4 Lot 4192.

North of Rose Lake. Classed as forest land on the basis of elevation, precipitous southern slope and stony soil unsuited for tillage.

Cover: Timber is immature but will be statutory although no cruise was made.

N.E. 1/4 Lot 4192.

North of Rose Lake. Classed as forest land on the basis of elevation, precipitous southern slope and deep gravelly soil unsuited for tillage.

Cover: Largely a moderate stand of lodgepole pine 8-12" in diameter.

S.E. 1/4 Lot 4193.

North of Rose Lake. Classed as 1st class agricultural land. S.E. exposure and deep stony silt loam soil.

Cover: Excepting 20 acres of poplar, area is covered with 2nd growth Jack pine in moderately dense stands averaging about 5" in diameter.
N.W. ¼ Lot 4193.

Near Rose Lake. Classed as 3rd class agricultural land on the basis of very stony soil and elevation.

Cover: Thin stand of limby Jack pine averaging 8" in diameter that will yield some ties but is not mature for this use and would not be statutory timber.

N.E. ¼ Lot 4193.

North east of Conrad Lake. Classed as 3rd class agricultural land on the basis of elevation and very stony soil.

Cover: No timber but a good stand of 2nd growth lodgepole pine averaging 3-5" in diameter in moderately dense stands.

S.E. ¼ Lot 4194.

North of Old Woman Lake. Classed as 2nd class agricultural land on the basis of elevation and stony soil.

Cover: 2nd growth Jack pine in a dense stand on the east 80 acres. This is 5" in diameter in the south but is larger toward the north. West of this stand the cover is mixed pine and spruce of the same diameter and density.

S.W. ¼ Lot 4194.

North of Old Woman Lake. Classed as 3rd class agricultural land on the basis of very stony nature.

Cover: 3.7, 120 acres are covered with a stand of 2nd growth Jack pine 4-6" in diameter in stands of varying density. In N.E. 40 acres this pine is mixed with young spruce over 20′ high.

N.W. ¼ Lot 4194.

North of Old Woman Lake. Classed as 3rd class agricultural land on the basis of very stony soil.
N.W. ¼ Lot 4194 (Cont'd)

Cover: Area is covered with Jack pine 2nd growth with exception of 20 acres of willow bottom in the centre. West of this the pine averages 5" in diameter in dense stands but in the east it is from 6-10" in diameter and the stand is thinner.

N.E. ¼ Lot 4194

North of Old Woman Lake. Classed as 3rd class agricultural land on the basis of very stony soil and rolling surface.

Cover: Jack pine 2nd growth averaging 6" in diameter in moderately dense stands.

S.E. ¼ Lot 4195

North of Conrad Lake. Classed as forest land on the basis of elevation and very stony silt soil that is unsuitable for cultivation.

Cover: Excepting 30 acres of willow bottom, cover is 2nd growth pine averaging 8" in diameter in thin stands.

S.W. ¼ Lot 4195

North of Conrad Lake. Classed as forest land on the basis of elevation and stony soil.

Cover: 80 acres of peaty willow bottom will not carry timber for some time. 80 acres of 2nd growth lodgepole pine in thin stands mostly with poplar admixture. This averages 6" in diameter.

N.W. ½ Lot 4195

North of Conrad Lake. Classed as forest land on the basis of elevation and very stony soil.

Cover: 2nd growth timber of no immediate value. 130 acres are lodgepole pine, spruce and poplar. Few ties in N.E.
N.E. 1/2 Lot 4195.

North of Conrad Lake. Classed as forest land on the basis of elevation, steep slopes and very gravelly soil.

Cover: Northern portion of 1/2 is covered with jack pine and spruce averaging 7" and 8" in diameter respectively, in rather thin stands. In the N.W. are 20 acres averaging 8" and 10" respectively. Remainder of area is willow bottom.

S.E. 1/4 Lot 4196.

North of Duncan Lake. Classed as forest land on the basis of elevation and deep stony soil.

Cover: Thin stand of 2nd growth jack pine and poplar averaging 6" in diameter.

N.W. 1/4 Lot 4196.

North of Conrad Lake. Classed as forest land on the basis of elevation and deep stony and too stony soil.

Cover: Varying stand of 2nd growth jack pine and spruce averaging perhaps 5" in diameter.

N.E. 1/2 Lot 4196.

North of Conrad Lake. Classed as forest land on the basis of elevation and stony soil unsuitable for intensive cultivation.

Cover: Much area is covered with willow and would likely need to spruce. Remainder of area has largely 2nd growth pine averaging 6" in diameter in moderately dense stands. Pine is mixed with some poplar in the S.E. and there are 5-10 acres of poplar in the N.W.

S.E. 1/4 Lot 4197.

North of Conrad Lake. Classed as 2nd class agricultural land on the basis of elevation, steep slopes and stony soil, also cost of development.
S.E. ¼ Lot 4197. (Cont’d)

Cover: S.E. 80 acres carry a stand of big spruce and area will carry a considerable quantity of ties. Remainder of cover is a thin stand of Jack pine 2nd growth averaging 6-9” in diameter.

S.E. ¼ Lot 4197.

North of Conrad Lake. Classed as forest land on the basis of elevation and a rolling surface, largely topographically non-tillable. Shallow soil on rock.

Cover: 2nd growth Jack pine which has some spruce admixture near the lake. Pine averages 7” in diameter and is rather thin.

N.W. ¼ Lot 4197.

Near Duncan Lake north of Forestdale. Classed as forest land on the basis of very uneven steeply sloping surface, elevation, and soil.

Cover: Thin stand of Jack pine averaging 6-7” in diameter that will yield a few ties but is below the statutory quantity.

S.E. ¼ Lot 4199.

North of Old Woman Lake. Classed as 1st class agricultural land. Southern aspect, largely gently sloping surface and deep stony silt loam of fair quality.

Cover: Dense stand of 2nd growth lodgepole pine averaging 5-6” in diameter that will yield ties.

S.W. ¼ Lot 4199.

North of Duncan Lake. Classed as 2nd class agricultural land on the basis of gravelly soil. Cover: No mature timber but 50 acres in N.E. 1/4 will yield a certain quantity of ties at present. Whole area is largely lodgepole pine 2nd growth with poplar or spruce admixture. On southern portion the pine will average 6” or less in diameter in moderately dense stands.
N.W. 1/4 Lot 4199.

North of Duncan Lake. Classed as 1st class agricultural land. 80 acres deep stony silt loam soil; gentle slopes.
Cover: No mature timber but 35 acres of satisfactory reproduction. This is a thin stand of 6" lodgepole pine with some poplar and spruce admixture.

N.E. 1/4 Lot 4199.

North of Duncan Lake. Classed as forest land on the basis of gently rolling surface and very stony deep silt loam soil of un-uniform quality.
Cover: Northern 40 acres carry a dense stand of young spruce and balsam but burnt area has only a thin stand of 6" pine that has survived the fires.

S.E. 1/4 Lot 4200.

North of Rose Lake. Classed as 3rd class agricultural land on the basis of elevation.
Cover: Along the N.W. boundary there are 8 acres of tie timber and on the N.E. there are 8 acres of S.E. saw timber. The lower half of the 1/4 is entirely covered with a dense stand of Jack pine of small size. Remainder is composed of 6" balsam, 6" pine and younger spruce.

S.W. 1/4 Lot 4200.

North of Rose Lake. Classed as 3rd class agricultural land on the basis of elevation and uniform stony silt loam soil.
Cover: Along the north boundary of the 1/4 there are about 20 acres of timber of tie size and also 40 acres of pine averaging 6" in diameter that will yield ties in about 20 years. The S. 1/4 of the 1/4 is covered with a dense stand of pine which may never reach merchantable size owing to density.
N.W. Lot 4200.

North of Rose Lake. Classed as 3rd class agricultural land on the basis of elevation.

Cover: Along south boundary of the ¼ there are 20 acres of good pine timber; 80 acres of remainder are 6" Jack pine and spruce. Remaining 25 acres are 6" balsam, 6" pine and spruce.

N.E. ¼ Lot 4200.

North of Rose Lake. Classed as 3rd class agricultural land on the basis of elevation, steep slopes and rocky soil.

Cover: Along S.W. boundary there are about 7 acres of pine timber; also 40 acres of 10" balsam and 8" spruce along the S.E. corner, which at present are merchantable as sawlogs or pulpwood. Remainder of area carries 5" lodgepole pine mixed with young spruce.

Lot 4204.

East of Duncan Lake near Forestdale. Classed as forest land on the basis of poor soil.

Cover: ½ of area carries a moderate stand of 5-6" Jack pine. Central east portion is a dense poplar stand averaging about 4" in diameter. In the east the cover is again 2nd growth Jack pine some of which will yield ties. Area is all covered by forest.

S.S. ¼ Lot 4205.

North of Bulkley River and east of Tooley. Classed as 2nd class agricultural land on the basis of elevation, stony soil and rather steeply sloping surface.

Cover: 60 acres of bare burn poorly stocked. 88 acres of dense Jack pine 2nd growth 2-5" in diameter.

S.W. ¼ Lot 4405.

North of Bulkley River and east of Tooley. Classed as 3rd class agricultural land on the basis of elevation, N.W. exposure and un-uniform gravelly soil.
S.W. 1/4 Lot 4205 (Cont'd)

Cover: Excepting 30 acres of nearby bare burn, the area carries a stand of 2nd growth Jack pine 3-6" in diameter of moderate density.

N.W. 1/4 Lot 4205.

North of Bulkley River and east of Topley. Classed as 2nd class agricultural land on the basis of elevation and stony soil.

Cover: Excepting 40 acres of practically bare burn the area carries a fairly dense stand of 2nd growth Jack pine averaging 5-6" in diameter.

N.E. 1/4 Lot 4205.

North of Bulkley River and east of Topley. Classed as 2nd class agricultural land on the basis of elevation, W. exposure and severely burnt soil.

Cover: 35 acres of Jack pine 2nd growth in the N.E. corner comprises all the timber on the area. This, excepting southern 10 acres is dense and small. Stand on southern 10 acres is moderate and diameters run 4-10".

S.E. 1/4 Lot 4205.

North of Duncan Lake and east of Forestdale. Classed as 3rd class agricultural land on the basis of elevation, broken surface, steep slope and stony soil.

Cover: Dense stand of 2nd growth Jack pine 4-6" in diameter.

S.W. 1/2 Lot 4206.

North of Duncan Lake and east of Forestdale. Classed as 3rd class agricultural land on the basis of elevation, steep slope and stony soil.

Cover: Dense stand of Jack pine 2nd growth averaging 5" in diameter but with one or two patches of bigger trees.
N.W. ¼ Lot 4206.

North of Duncan Lake, east of Topley.
Classed as 2nd class agricultural land on the basis
of precipitous sloping area and low lying nature of
remainder.
Cover: Excepting southern portion, area
would not yield timber. Southern portion is stocked
with 2nd growth Jack pine averaging about 6" in diam-
eter in fairly dense stands.

N.E. ¼ Lot 4206.

North of Bulkley River and east of Topley.
Classed as 2nd class agricultural land on the basis
of low nature and conditions of air drainage.
Cover: Only half area carries timber
species. This is 2nd growth Jack pine averaging 6"
in diameter in fairly dense stands.

S.S. ¼ Lot 4207.

North of Bulkley River and east of Topley.
Classed as forest land on the basis of mountainous
land; elevation, steep slopes and rocky soil.
Cover: Well stocked with Jack pine 2nd
growth averaging perhaps 4" in diameter.

S.W. ¼ Lot 4207.

North of Bulkley River, west of Forest-
dale. Classed as forest land on the basis of steep
slopes on mountainous foothill. Area is rocky and
of no agricultural value, excepting 20 acres in the
N.W. of stony silt loam soil.
Cover: Excepting precipitous rocky bluffs
is covered with 2nd growth. This is a mixture of pine
spruce and poplar on the lower portion but is pure
pine at higher elevations. It averages about 5" in
diameter and is fairly dense.

N.W. ¼ Lot 4207.

North of Duncan Lake. Classed as 2nd class
agricultural land on the basis of low lying nature of
tillable portion.
N.W. ½ Lot 4207. (Cont)

Cover: Central northern 40 acres carry a moderately dense stand of 5-6" Jack pine and in central west--25 acres of dense poplars 3-4" in diameter. S.E. portion of area--moderately dense stand of Jack pine averaging about 7" in diameter that will yield some ties.

N.E. ¼ Lot 4207.

North of Duncan Lake. Classed as 2nd class agricultural land on the basis of low nature and air drainage.

Cover: 20 acres in west only area that is well stocked. This carries a moderately dense stand of Jack pine averaging 7" in diameter. 35 acres are capable of growing good timber. Peat area would grow spruce for pulp.

Lot 4208.

North of Bulkley River, east of Topley. Classed as forest land on the basis of elevation, steep slopes and rocky soil. Sufficient soil for timber production.

Cover: Largely 2nd growth pine but is patchy in the central east and is fire injured. Might not grow satisfactory timber. Jack pine is from 3-5" in diameter averaging about 6" and varies in density being largely fairly dense.

N. ½ & S.E. ¼ Lot 4209.

North west of Duncan Lake near Forestdale. Classed as forest land on the basis of elevation, and very gravelly soil.

Cover: E. ¼ of lot is well stocked with Jack pine 2nd growth that will yield ties. Most of N.E. ¼ has been burnt over and live pine is standing in clumps. Will carry some ties at present.
S.E. ¼ Lot 4210.

North of Duncan Lake. Classed as forest land on the basis of slopes and soil.
Cover: Good stand of 2nd growth lodgepole pine of moderate density averaging 7-8" in diameter, excepting areas in north.

S.E. ¼ Lot 4210.

North of Duncan Lake. Classed as forest land on the basis of steep slopes and stony soil.
Cover: Excepting 10 acres of alder and 5 acres of muskog, area is covered with fairly dense small Jack pine averaging 4" in diameter, containing some smaller spruce reproduction. Area would grow good tie timber.

N.W. ¼ Lot 4210.

North of Duncan Lake. Classed as forest land on the basis of northern exposure and soil too stony to be cultivated.
Cover: Fairly dense stand of lodgepole pine averaging 3-4" in diameter. Also some young spruce. Area would yield ties in 40 to 50 years.

N.E. ¼ Lot 4210.

North of Duncan Lake. Classed as forest land on the basis of slopes and gravelly soil.
Cover: 55 acres of lodgepole pine 2nd growth of varying size and density. Remainder of area is spruce swamp that will eventually grow pulp timber.

S.W. ¼ Lot 4211.

East of Bulkley River just south of Tooley. Classed as 3rd class agricultural land on the basis of elevation, northerly exposure, soil and position.
Cover: Bottom land — moderately dense stand of willows and 4" poplar. Remainder of area is covered with a fairly dense stand of 6" lodgepole pine, 4" poplar and smaller spruce 2nd growth.
N.W. ¼ Lot 4211.

North of Duncan Lake, east of Topley.  
Classed as 2nd class agricultural land on the basis of need of draining.  
Cover: None except 75 acres of semi-fire killed 5-6" Jack pine in the north half of area.

N.E. ¼ Lot 4211.

North of Duncan Lake, east of Topley.  
Classed as 3rd class agricultural land on the basis of very stony soil and elevation.  
Cover: Semi-fire killed 5-6" Jack pine will insure forest cover.

Unsurveyed ½ sec. N. of N.W. ¼ L. 4211.

North of Duncan Lake, east of Topley.  
Classed as 2nd class agricultural land on the basis of elevation and very stony soil.  
Cover: None except 80 acres of fairly dense 2nd growth Jack pine averaging 6" in diameter. Some alder and little spruce reproduction mixed with this cover.

N.W. ¼ Lot 4212.

North and west of Bulkley Lakes. Classed as 1st class agricultural land. Gently sloping surface and deep stony silt loam soil with some peat.  
Cover: Little timber. Swampy area carries spruce reproduction that would not make good growth owing to swampy conditions. North easterly 20-30 acres might yield some ties in future as it carries a stand of 6-8" Jack pine mixed with poplar and spruce.

S.E. ¼ Lot 4232.

North of Bulkley River, east of Topley.  
Classed as 1st class agricultural land. It borders the 2nd class on the basis of elevation and exposure. Soil is deep and fertile.  
Cover: Semi-fire killed Jack pine. Area is capable of growing timber.
M.E. Lot 4232.

North of Bulkley River, east of Topley. Classed as 2nd class agricultural land on the basis of steep slope and gravelly soil. Cover: None at present but area is capable of growing good timber if fires are kept out.

Unsurveyed Sec. S. of Lots 4236 & 5409.

East of Bulkley River at Barrett Lake. Classed as 3rd class agricultural land on the basis of elevation, W. exposure, steep slopes and soil. Cover: Practically whole S. 1/4 of area carries moderately dense stand of 6" lodgepole pine 2nd growth. N.W. 90 acres covered with moderately dense stand of small poplar and alder mixed with thin scattering of 5" pine. N.E. portion is recent burn and carries 4" pine and young poplars.

S. Lot 4239.

East of Bulkley River, north of Barrett Lake. Classed as 2nd class agricultural land on the basis of elevation and N.W. exposure. Cover: Mixed with young poplar and alder there is a certain amount of 3" lodgepole pine.

N. Lot 4239.

East of Bulkley River, north of Barrett Lake. Classed as 1st class agricultural land. Area borders class 2, however, on the basis of elevation. Cover: South portion carries a thin stand of 8" spruce 2nd growth mixed with dense alders. Will yield sawlogs in 20 years' time. Under statutory amount of timber at present.

N. Lot 4261.

East of north end of Decker Lake. Classed as 1st class agricultural land. Almost level surface and deep stony silt loam soil of good quality, suited for mixed farm use.
N. 1/4 Lot 4261. (Cont.)

Cover: 50 acres of spruce swamp may yield pulp timber. 20 acres in north carry moderate stand of 8" Jack pine that will yield a few ties. Excepting 50 acres of poplar, remainder of area carries mixed small 2nd growth.

Unsurveyed Sec. W. of L. 4273.

East of Bulkley River at Smithers. Classified as 3rd class agricultural land on the basis of elevation, cost of development and inaccessible location. Cover: Stand of big spruce, balsam and lodgepole pine timber, considerably over the statutory limit.

Lot 4274.

East of Bulkley River at Maclure Lake. Classified as 3rd class agricultural land on the basis of N.W. exposure and elevation. Soil is largely deep stony silt and clay loam well suited for agricultural use. Cover: Whole area is old burn excepting 20 acres of spruce swamp and 10 acres of small spruce timber that escaped fire in central west. S.W. 180 acres carry a stand of thin 3" lodgepole pine 2nd growth. Remainder of burn carries small poplars and alders.

Unsurveyed Sec. W. of L. 4274.

East of Bulkley River, north of Telkwa. Classified as 3rd class agricultural land on the basis of elevation, N.W. exposure and location. Good agricultural soil. Cover: Southern 160 acres are burn without reproduction. Northern portion carries a moderately dense to thin stand of young lodgepole pine.

Lot 4275.

East of Bulkley River at Maclure Lake. Classified as 3rd class agricultural land on the basis of elevation, N.W. exposure.
Lot 4275. (Cont).

Cover: Area is old burn. Southern 200 acres have no reproduction, remainder of area being covered with a thin stand of 3-4" lodgepole pine 2nd growth mixed with poplar and alder.

Unsurveyed Sec. W. of L. 4275.

East of Bulkley River, north of Telkwa. Classed as 3rd class agricultural land on the basis of elevation, W. exposure, soil, location and cost of development.

Cover: 20 acres of moderately dense spruce timber 10" in diameter that escaped the fire but remainder of area is covered with stand big fire-killed spruce and pine timber.

Lot 4279.

East of Bulkley River, north of Maclure Lake. Classed as 3rd class agricultural land on the basis of elevation, location and cost of development.

Cover: Over statutory amount of balsam, spruce and lodgepole pine timber.

Unsurveyed Sec. W. of L. 4279.

East of the Bulkley River at Smithers. Classed as 3rd class agricultural land on the basis of S.W. exposure. Soil is deep sandy loam suited to tillage. West half is much more uniform being largely a very fine deep sandy loam.

Cover: 90 acres in N.E. corner carry a moderately dense stand of 10" spruce timber mixed with a thinner scattering of 8" lodgepole pine. Remainder is spruce and pine 2nd growth 3-4" in diameter, mixed with alders.

Lot 5079.

North of west end of Fraser Lake. Classed as 1st class agricultural land. South 120 acres are deep clay of good quality. Remainder of area is stony clay and stony silt loam. South half slopes gently to south.
Lot 5079. (Cont.)

Cover: Central 50 acres near creek—fairly dense stand of 8-10" spruce and 8" poplar. N.E. 70 acres—dense stand of young spruce, 2nd growth pine, poplar and a few big spruce 2½ - 3" in diameter. No appreciable tie timber.

N. ½ Lot 5409.

East of the Bulkley River, north of Barrett Lake. Classed as 1st class agricultural land. Southerly exposure, gently sloping surface and deep stony silt of good quality well supplied with humus and in good condition for easy cropping.
Cover: Excepting 30 acres of moderately dense 6" spruce 2nd growth in the S.E., area is without forest promise in the future.

S. ½ Lot 5410.

East of Bulkley River, south of Walcott. Classed as 2nd class agricultural land on the basis of elevation, W. exposure, very uneven surface and soil.
Cover: Moderately dense stand of 6" spruce and 4" lodgepole pine, excepting about 30 acres of 2-4" poplar in the N.E.

N. ½ Lot 5410.

East of Bulkley River, south of Walcott. Classed as 2nd class agricultural land on the basis of elevation, uneven surface and soil.
Cover: Slightly less than ½ of area in S.W. corner is stocked with timber species. This is 6" spruce in a moderately dense stand. Remainder is poplar of varying size from reproduction up to 4-5".

Lot 5411.

East of Bulkley River, south of Walcott. Classed as 2nd class agricultural land on the basis of elevation, N.W. exposure, uneven surface and soil.
Cover: Area is an old burn with exception of spruce swamp. It now carries a moderately dense stand of lodgepole pine 4" in diameter.
S. ¼ Lot 5412.

East of Bulkley River at Barrett Lake. Classed as 3rd class agricultural land on the basis of elevation, N.W. exposure, slopes and dry soil.

Cover: Thin to moderately dense stand of Jack pine 3-6" in diameter. In center of area this is almost a pure stand but on most of area it is mixed with poplar and alder.

N. ¼ Lot 5412.

East of the Bulkley River at Barrett Lake. Classed as 1st class agricultural land. Deep fine sandy loam and loam soil well suited to agricultural development. Brook in N.W.

Cover: Largely a moderately dense mixture of 5" lodgepole pine, 3" poplar and willows and alders.

Unsurveyed ½ Sec. E. of L. 5830.

East of Bulkley River at Walcott. Classed as forest land on the basis of elevation, W. exposure, slope and rocky soil which preclude successful farming.

Cover: Half area carries small poplar and willows. Remainder carries un-uniform lodgepole pine and spruce 2nd growth under 6" in diameter mixed with alders.

Lot 5992.

West of end of N.W. arm of Fraser Lake, Classed as 1st class agricultural land. Southerly exposure, gently sloping surface and deep stony silt loam soil.

Cover: About 96 acres of moderately dense fir timber averaging 8" in diameter. Remainder of area, excepting burn is covered largely with a stand of spruce reproduction mixed with pine and poplar 6" in diameter and an odd big spruce.
E. ½ Lot 6320.

North of Fraser Lake. Classed as 2nd class agricultural land on the basis of precipitous slope and cost of development. Soil is largely deep stony silt loam of good quality well suited to crop use.

Cover: S.E. 70 acres carry big fir timber in a fairly dense stand with spruce and pine 2nd growth coming in. Extreme west 40 acres is dense 6-8" pine 2nd growth, remainder being poplar and alder.

W. ½ Lot 6320.

North of Fraser Lake. Classed as forest land on the basis of mountainous land sloping precipitously. Rock and disintegrating rock. No soil of agricultural value.

Cover: About 100 acres of big fir timber that has survived an early fire and is in a moderately dense stand.

Lot 6331.

North west of north west arm of Fraser Lake.
Classed as forest land on the basis of steep southern slope and rocky and gravelly soil unsuited for tillage.

Cover: About 40 acres of 8" fir timber in the S.E. corner. Remainder is 2nd growth mixture. This is largely 6" Jack pine mixed with poplar. Whole area shows signs of having been burned over.

S.E. ½ Lot 6332.

North of west end of Fraser Lake. Classed as 1st class agricultural land. Gently sloping surface, southerly exposure and good soil. This is good mixed farm land.

Cover: Largely lodgepole pine and spruce 2nd growth. 40 acres of deciduous forest.
S.W. 1/4 Lot 6335.

North of west end of Fraser Lake. Classed as 1st class agricultural land. Gently sloping surface, southerly exposure and good soil. Cover: 2nd growth lodgepole pine 6-8" in diameter, deciduous forest and burn.

N. 1/3 Lot 6332.

North of west end of Fraser Lake. Classed as forest land on the basis of elevation, steep southern slope and topography. Cover: Area appears to be covered with 2nd growth lodgepole pine following fire in 1885.

S.W. 1/4 Lot 6335.

North of west end of Fraser Lake. Classed as 2nd class agricultural land on the basis of steep slopes and disintegrating rock unsuited for farm development. Cover: Small 2nd growth. In the S. 1/2 this is largely Jack pine averaging 4" in diameter but remainder of area is covered by a moderately dense stand of 3" poplar.

S.W. 1/4 Lot 6335.

North of W. end of Fraser Lake. Classed as 2nd class agricultural land on the basis of soil. Cover: N.E. 60 acres—moderately dense stand of 2nd growth poplar averaging 3" in diameter. Peat land is either willow or grass covered. 20 acres of 5" spruce and Jack pine in the north half of the S.W. 1/4 of area.

N.W. 1/4 Lot 6335.

North of west end of Fraser Lake. Classed as 3rd class agricultural land on the basis of W. - N.W. exposure and gravelly loam soil poorly suited to cultivation. Cover: Excepting a few acres of spruce swamp and 5" Jack pine in the N.W., area is covered with deciduous forest.
North of west end of Fraser Lake. Classed as 3rd class agricultural land on the basis of steep slope and soil being unsuited for agricultural development.

Cover: 2nd growth. This is poplar averaging 3-4" in the south half. North half is largely a thin stand of 6" Jack pine which has some filling with poplar and spruce in the north 40 acres.

Lot 6336.

North of Endako River, west of Fraser Lake. Classed as 2nd class agricultural land on the basis of hills and soil.

Cover: A mixed varying stand of 2nd growth all under merchantable size.


North of Endako River. Classed as 1st class agricultural land. S.W. exposure, gently sloping surface and soil well suited to cultivation.

Cover: 2nd growth Jack pine, poplar and spruce. 12 acres of this on strips run were tie size now, remainder slightly on small side. Pine averages 8-12" in diameter on most of area.

Unsurveyed ¼ N. of L. 6343.

North of Endako River at Savory. Classed as 1st class agricultural land on the basis of elevation, S.W. exposure, gently sloping surface and good soil.

Cover: Appears that lodgepole pine followed a fire in 1865.

Lot 6382.

North of Endako River at Stellako. Classed as 3rd class agricultural land on the basis of northern exposure and boulder-strewed soil.

Cover: Excepting 20 acres willow bottom fairly dense to moderately dense stand of 4-7" Jack pine.
Lot 6383.

West and north of Fraser Lake. Classed as forest land on the basis of slope toward swamp and disintegrating rock.

Cover: Excepting swamp which carries stunted spruce, area is covered with a thin stand of Jack pine 2nd growth averaging 7" in diameter.

Lot 6384.

North of Endako River at Stellako. Classed as 1st class agricultural land. Deep clay soil.

Cover: Largely Jack pine 2nd growth ranging from 4-8" in diameter in moderately dense stands. Few acres of 8-10" trees along central part of west border will yield ties.

Lot 6385.

North and west of west end of Fraser Lake. Classed as forest land on the basis of steep slopes, broken surface, rock outcrop and stony soil.

Cover: Whole area is covered with 2nd growth which is largely a thin stand of Jack pine averaging 6" in diameter. On the S.E. 70 acres there is also some spruce and poplar. Extreme S.E. 20 acres carry very little pine.

Lot 6386.

North and west of west end of Fraser Lake. Classed as 1st class agricultural land. Gently and fairly evenly sloping surface and soil that would make good farm soil.

Cover: 40 acres in S.E. carry deciduous forest although spruce is coming in. Remainder of area is mainly Jack pine 2nd growth in fairly dense stands. This averages 5-5" in diameter, excepting small area in N.E. averaging 8-12".

Lot 6384.

On Endako River west of Endako. Classed as 3rd class agricultural land on the basis of slopes and decomposing rock and gravelly silt loam.
Lot 6394. (Cont'd)

Cover: 2nd growth. There are a few acres of big fir and pine trees in the extreme N.E. corner. The 2nd growth is a mixture of spruce, poplar and 7-8" Jack pine in moderately dense stands.

Lot 6402.

North of Endako River, west of Endako.
Classed as 3rd class agricultural land on the basis of steep slopes and rocky and gravelly soil of no value for cultivation.

Cover: N.E. portion is largely a moderately dense stand of poplar. In the S.W. 60 acres Jack pine and spruce form cover in a moderately dense stand. Pine averages 6" in diameter.

Lot 6404.

North of Endako River, west of Endako.
Classed as 3rd class agricultural land on basis of mountainous foothill rolling uneven and soil unsuited for tillage.

Cover: 2nd growth largely a thin stand of 6" Jack pine with poplar admixture on the N.W. ¾. The S.E. ¼ is occupied by a stand of young spruce and poplar in a moderately dense stand with occasional big spruce trees.

Lot 6406.

North of Endako River. Classed as forest land on the basis of elevation, and there being no appreciable area of agricultural soil on this lot.

Cover: 40 acres carry stand of thrifty Douglas fir timber averaging 12" in diameter and 50-60 years old. Remainder of southern part of area is largely poplar. Northern portion is largely a thin stand of 2nd growth Jack pine.

Lot 6410.

North of Endako River, west of Endako.
Classed as 3rd class agricultural land on the basis of very gravelly silt loam with rock outcropping.
Lot 6410 (Cont'd).

Cover: 2nd growth most of which is a mixture of Jack pine, poplar and spruce in a thin stand. Pine averages 7-10" in diameter. Northern 15 acres are smaller pine and spruce.

Lot 6478.

North of Endako River at Endako. Classed as 3rd class agricultural land on the basis of northernly slopes and stony soil.

Cover: Appeared to be largely lodgepole pine 2nd growth under 8" in diameter.

W, 1/2 Lot 6598.

North of Palling Station, west of Decker "lake. Classed as 3rd class agricultural land on the basis of elevation and cost of clearing.

Cover: Excepting 12 acres of lodgepole pine and spruce timber in the S.E. averaging 10" in diameter, area is covered with a moderately dense stand of lodgepole averaging 7" in diameter.

S.E. 1/2 Lot 6602.

East of Decker Lake. Classed as 1st class agricultural land. Southern exposure, gently sloping surface and deep stony silt loam soil suitable for tillage.

Cover: Ties have been cut. Area is covered with a mixed stand of Jack pine 8", poplar 3" and spruce understory.

S.W. 1/2 Lot 6602.

North east of Decker Lake. Classed as 1st class agricultural land. S.W. exposure, gently sloping surface and soil largely suited to tillage.

Cover: 143 acres are a mixed stand of Jack pine averaging 6", poplar 3" and spruce understory with a few spruce up to 18" around swamp. Some ties have been cut. Remainder of area is swamp and slash.
H. 1/2 Lot 6607.

East of North end of Decker Lake. Classed as 1st class agricultural land. S.W. slope and deep stony silt loam of good quality.

Cover: Mostly a dense stand of Jack pine averaging 5" in diameter that will yield ties in about 30 years. Near brook in N.W. there is also some spruce reproduction. Area has been logged over.

W. 1/2 Lot 6608.

North of Decker Lake. Classed as 3rd class agricultural land on the basis of gently rolling surface and soil too stony for tillage.

Cover: 2nd growth, most of which is 4-9" Jack pine. Reported carrying 600 ties in 1921. Stand of tie trees is thin and scattered.

W. 1/2 Lot 6608.

North of Decker Lake. Classed as 1st class agricultural land. S.W. exposure, gently sloping surface and soil, though stony is suitable for tillage.

Cover: Excepting 43 acres of deciduous forest and slash, area carries mixed pine 6", small spruce and poplar. Area has been logged for ties but there are some pine trees up to 12" in patches.

S. 1/2 Lot 6609.

East of Decker Lake. Classed as 1st class agricultural land. S.W. exposure and good agricultural soil.

Cover: Mostly 2nd growth Jack pine 5" in diameter in moderate to dense stands. Will take 20 years to mature.

W. 1/2 Lot 6609.

East of Decker Lake. Classed as 1st class agricultural land. S.W. exposure and deep stony silt loam of fair quality.
N. 1/4 Lot 6609 (Cont’d).

Cover: Largely 2nd growth Jack pine averaging 8” in diameter in thin stands that will yield some ties but is immature for this purpose. Also some poplar and some spruce reproduction.

S. 1/4 Lot 6610.

North east of Decker Lake. Classed as 2nd class agricultural land on the basis of westerly exposure, gently rolling surface and stony soil throughout area.

Cover: Stand of 2nd growth mostly thinly seeded and of varying species distribution. Some 8-10” Jack pine scattered through a mixture of young spruce and poplar, but the tie trees are too scattered to be a good logging proposition.

N. 1/4 Lot 6610.

North east of Decker Lake. Classed as 3rd class agricultural land on the basis of gently rolling surface, very stony soil and canyon.

Cover: Largely 2nd growth but there are scattered Jack pine trees big enough for ties and also a few spruce and cottonwoods big enough for sawlogs. Might yield 1000 ties but would not be a good logging proposition owing to sparsity. There will be a good stand of tie timber along parts of north boundary in a very few years.

Area B, Lot 6611.

North of Decker Lake. Classed as forest land on the basis of elevation, western exposure, precipitous slopes and soil.

Cover: Part of area at present covered by timber sale and there are 50 acres of fair timber yet to be logged. Cover is predominately lodgepole pine. This is mixed with 12” spruce on the S. 40. Spruce is also coming in in the centre of the lot, but most of area is covered by pine averaging 8” in diameter which will yield a large number of ties.
N. ¼ Lot 6612.

North of west end of Decker Lake. Classed as 3rd class agricultural land on the basis of elevation, westerly exposure, broken surface and soil. Cover: Moderately dense stand of lodgepole pine 2nd growth 5-8" in diameter.

Lot 6613.

North of west end of Decker Lake. Classed as forest land on the basis of elevation and stony soil.

Cover: 75 acres of balsam, spruce, and Jack pine in the N.W. averaging 15-18" in diameter in a moderately dense stand 85 acres of same type in S.E. Most of remainder is a moderate stand of 2nd growth averaging 8-10" in diameter.

Lot 6614.

North of west end of Decker Lake. Classed as forest land on the basis of elevation and rocky soil.

Cover: 15 acres of 6" pine in the north. Remainder is covered with a stand of young poplar.

S.W. ¼ Lot 6624.

North of Duncan Lake, east of Topley. Classed as forest land on the basis of cost of development and very stony soil.

Cover: Very poorly stocked at present as most of pine is fire-killed. 30 acres in west have escaped fire. Half of this is young spruce and half 6" Jack pine.

S.W. ¼ Lot 6624.

North of Duncan Lake, east of Topley. Classed as 2nd class agricultural land on the basis of elevation and very stony soil.

Cover: Whole area is recent burn and what pine there is in the south 100 acres is largely injured by fire.
N.W.  1/2 Lot 6624.

North of Duncan Lake, east of Topley.
Classed as 2nd class agricultural land on the basis of elevation, and stony soil.
Cover: Burnt practically clear.

N.E.  1/2 Lot 6624.

North of Bulkley River, east of Topley.
Classed as 3rd class agricultural land on the basis of elevation, and very stony soil.
Cover: Excepting creek bottom, area is a recent heavy burn and most of lodgepole pine cover is killed.

S.E.  1/2 Lot 6625.

North of Duncan Lake and east of Topley.
Classed as 2nd class agricultural land because of elevation, gently rolling surface, and very stony soil.
Cover: Largely burnt. Fire-killed timber is 2nd growth Jack pine averaging 6" in diameter. Small areas of poplar and spruce.

S.W.  1/2 Lot 6625.

North of Duncan Lake and east of Topley.
Classed as forest land on the basis of rolling surface and very gravelly and rocky soil.
Cover: Most of area has been burnt over recently and the live timber is patchy 2nd growth Jack pine.

N.  1/2 Lot 6625.

North of Bulkley River, east of Topley.
Classed as 3rd class agricultural land on the basis of elevation, gently rolling surface and very stony soil.
Cover: 40 odd acres of 6-8" lodgepole pine and 4" poplar in the S.E. corner that have escaped fire but most of area is comparatively recent burn.
E. ½ Lot 6626.

North of west end of Bulkley Lake. Classified as 3rd class agricultural land on the basis of elevation and very stony soil.

Cover: Only 30 acres of area carry merchantable species, this being Jack pine averaging 5" in diameter mixed with 3" poplar in a rather open stand. About 10 acres of small spruce and balsam reproduction, in the northern portion.

W. ½ Lot 6626.

North of west end of Bulkley Lake. Classified as 1st class agricultural land. Southerly exposure, level surface, and considerable good soil.

Cover: 4-5 acres of big spruce timber in swamp west of centre of area. Remainder of cover is 2nd growth Jack pine averaging 5" in diameter and young spruce averaging 3" in diameter. Swamp area is largely covered with young spruce.

S.E. ½ Lot 6627.

North of west end of Fraser Lake. Classified as 3rd class agricultural land on the basis of steep slopes and gravelly-rocky soil.

Cover: E. ½ of area carries a few big fir trees but main part of cover is poplar and spruce 2nd growth. Half the southern part of ½ is deciduous forest but there are 20 acres of young spruce in the S.W. corner some of which are 10" in diameter.

W. ½ Lot 6627.

N.W. of west end of Fraser Lake. Classified as 2nd class land on the basis of elevation, very steep slopes, broken surface occupied by small mountain and rocky soil.

Cover: Northern part of area carries a few scattered big fir trees but main part of cover is 2nd growth spruce, poplar and pine under merchantable size.
N.E. 1/4 Lot 6627.

North of west end of Fraser Lake. Classed as 3rd class agricultural land on the basis of elevation, N.W. exposure, steeply sloping surface and soil.

Cover: Largely spruce 2nd growth but there is a thin stand of big fir trees on parts of area and a considerable number of spruce trees about 8" in diameter. Will not yield merchantable timber for some time.

Lot 6679.

North of the centre of Burns Lake. Classed as 3rd class agricultural land on the basis of elevation, slopes and stony soil.

Cover: Fl. 2nd growth 3-10" mixed with 3-5" spruce and poplar.

S.W. 1/4 Lot 6701.

North and east of the south end of Decker Lake. Classed as 3rd class agricultural land on the basis of elevation, S.W. exposure and stony soil.

Cover: Largely 2nd growth Jack pine in thin stands mixed with poplar and young spruce. A little smaller and denser in the S.W. where it averages 4-5" in diameter, than it is in the N.E.

S.W. 1/4 Lot 6701.

East of south end of Decker Lake. Classed as 3rd class agricultural land on the basis of elevation and stony soil.

Cover: Largely 2nd growth Jack pine averaging 5" in diameter in stands of varying density.

N.E. 1/4 Lot 6701.

North and east of south end of Decker Lake. Classed as forest land on the basis of elevation, slopes and stony soil.

Cover: 2nd growth Jack pine of varying diameter and density but averaging about 6" in diameter.
Lots 6702 & 6703.

North of the east end of Decker Lake.
Classed as 3rd class agricultural land on the basis of rolling surface W. and E. exposures, elevation and stony soil.
  Cover: Lodgepole pine following fire in 1840.

Lot 6780.

North of Bulkley River, east of Perow.
Classed as 3rd class agricultural land on the basis of steeply sloping surface and stony soil.
  Cover: Heavily burnt-over land that carries only a thin stand of small poplars. It carried a heavy stand of big timber at one time and would re-seed itself in time.

N.B. After the major portion of these reports were completed the term "jackpine" was abolished in forest surveys in favor of "lodgepole pine". It was decided to use this latter term exclusively in the lot summaries but there was a slip up in the matter through the time taken to get these summaries finally typed, and both terms appear.
Tables of Acreages, Lots, Sec. 2, Tp. 3
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COST OF WORK

Wages ---------------------- $1813.19
Travel --------------------- 487.39
Food and Material -------- 841.53
Car ----------------------- 197.86
Equipment ---------------- 165.50
Incidentals --------------- 14.00

Total $3519.47

This works out to slightly over 3.7¢ per examined acre.

Food and material work out to $35.06 per man per month.
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The percent of silt given is low in all these samples as indicated by checks run. See memo, File 046691.
## Practical Ratings of Soils by Plant-Food

Percentages According to Prof. Maerker, Halle St., Germany.

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<td>Below .05</td>
<td>Below .05</td>
</tr>
<tr>
<td>Medium</td>
<td>.05 - .15</td>
<td>.05 – .10</td>
<td>.10 - .25</td>
<td>.05 - .10</td>
<td>.05 - .10</td>
</tr>
<tr>
<td>Normal</td>
<td>.15 - .25</td>
<td>.10 – .15</td>
<td>.25 - .50</td>
<td>.10 - .20</td>
<td>.10 - .15</td>
</tr>
<tr>
<td>Good</td>
<td>.25 - .40</td>
<td>.15 – .25</td>
<td>.50 - 1.00</td>
<td>.20 - .30</td>
<td>.15 - .25</td>
</tr>
<tr>
<td>Rich</td>
<td>Above .40</td>
<td>Above .25</td>
<td>Above 1.00</td>
<td>Above .30</td>
<td>Above .25</td>
</tr>
</tbody>
</table>

These estimates are in very close agreement with nearly all of those which have been suggested by other soil chemists in all parts of the world, although different methods of analysis are used by men in different countries. In fact, the writer believes that these standards may be fairly considered as proper ones for soils throughout the humid regions of the temperate zone.

R.W. Thatcher,
Chemist,
State Experiment Station.
<table>
<thead>
<tr>
<th>Field</th>
<th>Crop</th>
<th>Yield per Acre</th>
<th>Actual Cost</th>
<th>Estimated value of crop on the farm</th>
<th>Profit or loss(-) per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Clover and timothy hay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Clover and timothy hay</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Potatoes, Gold Coin</td>
<td>200 bus.</td>
<td>0.62 per bus.</td>
<td>1.25 per bush</td>
<td>126.0</td>
</tr>
<tr>
<td>D</td>
<td>Wheat, Marquis</td>
<td>25 bus, 19 lbs.</td>
<td>0.87 per bus.</td>
<td>2.00 per bus.</td>
<td>28.59</td>
</tr>
<tr>
<td>E</td>
<td>Demonstration Field</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Russian (ensilage)</td>
<td>8 tons</td>
<td>4.83 per ton</td>
<td>7.00 per ton</td>
<td>17.36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field</th>
<th>Crop</th>
<th>Date sown</th>
<th>Date cut</th>
<th>Yield per Acre</th>
<th>Cost</th>
<th>Profit or loss per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>Hay, second year</td>
<td>July, 14</td>
<td></td>
<td>1600 lbs.</td>
<td>12.91 per ton</td>
<td>3.27</td>
</tr>
<tr>
<td>B</td>
<td>Hay, second year</td>
<td>July, 14</td>
<td></td>
<td>1600 lbs.</td>
<td>12.91 per ton</td>
<td>3.27</td>
</tr>
<tr>
<td>C</td>
<td>Wheat, Marquis</td>
<td>May, 5</td>
<td>Sept. 1</td>
<td>23 bus.</td>
<td>0.63 per bus.</td>
<td>28.71</td>
</tr>
<tr>
<td>D</td>
<td>Potatoes, Gold Coin</td>
<td>May, 20</td>
<td>Oct. 6</td>
<td>200 bus, 40 lbs.</td>
<td>0.73 per bus.</td>
<td>74.22</td>
</tr>
<tr>
<td></td>
<td>Sunflowers, Mammoth Russian (ensilage)</td>
<td>May, 20</td>
<td>Sept. 20</td>
<td>8 tons</td>
<td>5.71 per ton</td>
<td>2.32</td>
</tr>
<tr>
<td></td>
<td>Demonstration Field</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Oats, Banner</td>
<td>May 15</td>
<td>Aug. 31</td>
<td>85 bus.</td>
<td>0.30 per bus.</td>
<td>34.00</td>
</tr>
<tr>
<td></td>
<td>Oats, Banner (cut for hay)</td>
<td>May 15</td>
<td>Aug. 17</td>
<td>4 tons</td>
<td>7.16 per ton</td>
<td>27.36</td>
</tr>
</tbody>
</table>