REPORT ON THE LODDON & JANE RIVERS

REPORT BY MR. L. K. WARD, ASSISTANT GOVERNMENT GEOLOGIST.

Geological Survey Office,

SIR.

Launceston, 19th June, 1909.

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I HAVE the honour to present the following report upon that portion of the work of western exploration which was entrusted to me during the past summer.

I.-INTRODUCTION.

I.—INTRODUCTION. Personnel of the Party.—In the work of exploration I was accompanied by Mr. L. P. Seal, of Hobart, who generically observed by Structure and Structures, and Messre. M. Donoghue and J. T. Riley, two able prospectors and experienced bushme. I desire to record my appreciation of their loyal assistance and unabating energy throughout the expedition. Period Occupied by the Examination.—I left Launceston on 15th February. The party reached Gormanation on 15th February. The party reached Gormanation on 15th February. The party reached Gormanation on the return journey on 15th April, and I arrived in Launceston on the 17th of that month. The Area which was Examined.—Acting under your instructions, the party moved southwards towards the forder River, along the track cut by Mr. J. L. Moore, form the Franklin River near the foot of Mt. Arrowsmith. We therefore followed the Linda track eastwards from Gormanston to a point near the confluence of the Surjoise and Franklin Rivers, and there crossed the latter interview.

prise and Franklin Kivers, and there crossed the latter river. During the previous summer I made a geological exam-ination of the country along the route of the proposed Great Western Railway, and my operations were carried out from the Linda track over the country between Gor-manston and the Iron Store at the foot of Mt. King Wil-liam I. The recent exploration work is thus an exten-sion of that carried out last year. From the Franklin River we made our way along the valley of the South Loddon River to its source in Calder's

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II.-GEOLOGY.

(a) Summary of Observations of 1908.

(a) Summary of Observations of 1908.
The area lying to the northward of that which was feedback examined is not characterised by a great variety of ock-types, nor are many geological systems represented over the greater part of this area.
The topography of this portion of Tasmania is notably agged, having been developed by the corrosive and erosive at long been elevated high above sea-level. Since the levation of central Tasmania at the close of the Mesozoic oxidations may have occurred, but in the central portion of the island at least there has not been any serious interaction in the work of degradation.
To long a period of continuous demudation has peel microsous schists which are the oldest rocks known in Tasmania.
Remarks of certain of the Palacozoic formations have serious interactions once represented in the district, and laid base benchare the oldest rocks known in Tasmania.

tribute largely to the bulk of the King William and Lod-don Ranges and Mt. Gell, have also been dissected by this river system. The geological systems known to occur in this region are

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these

these: (a) Pre-Cambrian.—The great complex series of quartz-ites, quartzite schists, quartz-mica schists, micaceous and argulaceous schists, cover the greater part of the area. They constitute the Raglan and Collingwood Ranges, together with Mts. Hardy and Arrowsmith, and the less prominent hills on the northern bank of the Collingwood River. These rocks are greatly contorted, and present no structional features which are constant throughout the racion

no structional features which are constant throughout the region. (b) Cambrian.—A small hill formed of reddish quartzite lies to the east of Mt. Arrowsmith, and its constituent strata rest unconformably upon the eastern borders of the Pre-Cambrian schists. This is the only outcrop of the Cambrian strata in this particular spot. However, much larger masses were observed to the southward by Mr. Twelvetrees. And it appears to be now certain that the horizon represented by these outcrops is that of the West Coast Kange conglomerate. If the formation has been once continuous across the space intervening between the west Coast Kange and the Denison Range, the effects of crustal movements and subsequent denudation have been such that all the central portion of the formation has been removed. However, it is not known that a single con-tinuous series stretched without interruption across this area.

The slates of the King River Valley probably belong also

The slates of the King River Valley probably belong also to this period. (c) Suurun.—There is an extensive deposit of fossilifer-ous Silurian sandstone lying to the northward of the Nel-son River. A small fragment of a sedimentary basin of this age occupies a part of the summit of Mt. Arrowsmith. (d) Permo-Carboniferous.—A considerable thickness of sandstone of this age was found to occupy part of the flanks of Mt. King william 1., but no traces were found in the country lying to the westward of the King William flange

statistication of this age william 1. but no traces were found in the country lying to the westward of the King William range.
Yet this formation and the subsequent sediments of Mesozoic age, which are not now visible anywhere in the region, have presumably extended for some distance to the westward of Mt. Gell and the Loddon and King william Ranges. The reason for this supposition is mainly that the diabase which caps the mountains referred to is a rock which must have consolidated at some depth below the surface. Hence, though it is now devoid of covering on the mountain ridges, there must have been sedimentary rocks above the diabase at the time of its consolidation.
(e) Mesozoic (Cretaceous).—The Mesozoic sediments are now entirely removed by denudation. The diabase invasion is thought to have taken place at the close of the Mesozoic era. This igneous rock has, in all probability, solidified in the form of great sills or laccolites of the cedar-tree "variety beneath a cover of Permo-Carbonicrous and Mesozoic sediments.
(f) Recent.—The unconsolidated river gravels which are found on the banks of the present day rivers or forming tarter cores on the fringes of the valley-floors are of recent date. They are not of importance as regards bulk.
The igneous rocks, other than the diabase which has been mentioned, are noticeably absent from the greater and between the points where the Cardigan and Balaclava Rivers unite with the Collingwood River some dykes of anetiferous zoiste amphibolite were found.
Also, near the junction of the Cardigan and Collingwood Rivers, some genetic relationship with a few veins of tour, and between the points where the Cardigan and Collingwood Rivers, some genetic relationship with a few veins of tour, and between the points where the Cardigan and Collingwood Rivers, some genetic relationship with a few veins of tour, and between the points where the cardigan and collingwood Rivers some genetic relationship with a few veins of tour,

Quartz-veins were observed widely distributed through-out the schists of Pre-Cambrian age, and in some places irregularly-shaped impregnations of the schists with pyrites, arsenical pyrites, and haematite were found.

No constant direction of fracturing could be determined in any part of the region, nor could the few outcrops of mineralised rock be traced for more than a few feet.

The main belt of mineralisation of the West Coast lies to the westward of the region examined, and no parallel metalliferous zone has yet been located to the eastward of the conglomerate of the West Coast Range.

(b) The Loddon River Valley.

The Loddon River is separated from the Franklin River by a high ridge, which extends for some miles in an east and west direction. The main mass of this ridge is known as Mt. Mullens, and extends to the westward as far as the confluence of the two rivers named. From it two spurs run northwards, and of these the more westerly is known as Junction Peak, being situated at the junction of the Collingwood and Franklin Rivers.

After leaving the deposit of river alluvial on the banks of the Franklin River, almost the whole of the country intervening between that river and the Loddon River is constituted of the Pre-Cambrian schists. There are all varieties represented—quartzitic, micaceous, and argil-laceous. And, at one point beside the track and 3 miles distant from the Franklin River the schist is graphitic, and some pyrites is present in the rock. In the bed of the small creek which flows into the Frank-lin River from the south-east, not far below the Surprise River, there is a certain amount of carbonate of line intimately intermingled with silica. The origin of this calcite cannot be definitely settled. It is a difficult question, and is bound up with that of the origin of the lines there is made below. On the northern slope of Mt. Mullens, at a considerable

Interstored to which that of the origin of the linestones found in the Jane River, mention of which is made below.
On the northern slope of Mt. Mullens, at a considerable elevation above the level of the Franklin River, there is a small deposit of alluvial material resting upon the schist. This constitutes part of an old river terrace, but the course of the stream, in the bed of which it was formed has since been diverted by the readjustment of the divides. The principal constituent boulders of the elevated terrace are of diabase and different varieties of the quartz-mica schists. Hence, we may infer that they were brought to this place by a stream which has had its source in the diabase-covered country to the eastward.
On the top of Mt. Mullens there is a small development of sandstone, which appears to be a portion of the formation more extensively developed in the region to the southward. This is, however, a local development only, for the western portion of the ridge are steep, and not heavily timbered, and the quartzose schist outcrops here and there along the whole length of the mountain.
The upper portion of the valley of the Loddon River is fairly well graded, and has been filled with alluvial material. The ridge between the two easterly branches of the sandstone is westward, and the angle of inclination is small.

the sandstone is westward, and the angle of inclination is small. The eastern branches of the Loddon River join at the end of this tongue of sandstone, and the main southern branch of the river unites with the easterly portion a little further down-stream. As the river approaches the Franklin River Valley the alluvial deposit on its banks disappears, and it flows for the last portion of its course through an exceedingly narrow gorge. The South Loddon River, too, is fringed by a deposit of recent alluvial material brought down by the river. In one place, due east of the top of Mt. Brown, a quan-tity of secondary pyrites was seen in this alluvial, but no valuable mineral was found with it. Organic matter is abundant in the river wash at this spot, and has doubtless effected a precipitation of the pyrites from iron sulphate carried down in solution by the river. The flatness of the grade of the river valley in this district makes the prospecting of the stream beds difficult without the expenditure of some considerable amount of time and labour. The prospecting effected during this expedition did not meet with any encouraging results at all The South Loddon River traverses the belt of sandstone

all The South Loddon River traverses the belt of sandstone which has been referred to above, and which extends to the westward as far as the foot of Brown Mount and the lower slopes of the Frenchman's Cap. At its western border the nature of the sandstone becomes apparent, since it carries a number of tubular casts which are circular or oval in section. Entirely similar sand-stone carrying similar casts has been recognised at a num-ber of different places in the West Coast region. The rock is commonly referred to as the "tubicolar," or "pipe-stem," sandstone. The tubular casts are thought to be most probably casts of the burrows made by tubicolar annelids. No equally satisfactory explanation of these casts can yet be offered. They are uniformly devoid of any traces of organic structure. The sandstone is usually white, and to some degree indurated by an infiltration of silica. of silica.

of silica. The lowest visible members of the series in this locality are pebbly conglomerate beds, conformable with the tubicolar sandstone. These beds outcrop along the west-ern border of the valley of the South Loddon River in a number of places. The strike at one point, where the stratification is very clearly visible, is N. 5° E., and the dip is towards the east at 40°. Variations occur, however, within short distances.

within short distances. There appear to be several horizons of the tubicolar sandstone, and between them bands of quartzite, breccia, or conglomerate. The stratigraphical relationship of the visible outcrops is difficult to determine, since the greater part of the valley floor has been levelled off by the action of denudation, and only isolated outcrops of the denser varieties stand out above the vegetable cover. The occur-rence of the breccia proves especially perplexing in this

respect, when the outcrops in the lower part of the valley are considered. From the observations made in Calder's pass it appears to be at the bottom of the series. In a few places on the slopes of the small hills in this valley there is an iron-stained argillaceous sediment associated with the sandstone. The several members of this sedimentary series rest directly upon the quartz-mica schists in every case which was observed, and there is a marked unconformity at the intervent of the second sediments are variable in aspect. The lower slopes of the high country are commonly composed of the more field sediments are variable in aspect. The lower slopes of the high country are commonly composed of the more are no well-marked divisional lines between the several varieties in the great majority of cases; and the quartz-tie schists are in some places to be seen so surrounded by the micaceous schists that the two types must be regarded as one complex whole. The micaceous varieties of the schist series carry numerow several entities and lenticles of white quartz, which cut across the foliation planes or conform with them. On the weathering of the schist the quartz from these venilets is set free, and the broken fragments remain covering the surface of white vein-quartz lying on the floor of the surface of the South Loddon River is remarkable. The quartz is quite free from visible inclusions of metallic

minerals. To the east of the South Loddon River the sandstone formation was found to continue as far as our examina-tion extended. The outcrops are very few in this portion of the area mapped, and the vegetation is exceptionally

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(c) Calder's Pass

The narrow defile between the hills, which is called Calder's Pass, is the source of the South Loddon River. The walls of the pass are steep, and the low-level passage between them is shaped like the letter L, with the two arms opening towards the north and east. The northern branch of the pass follows the line of junction between the

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mass in depth below the schists which appear at the surface. The granitic magma has no representative consolidation product visible at the surface at this place; yet its presence in depth may be deduced from the occurrence of veins consisting of such mineral aggregates as are usually the associates of granite. Moreover, during the exploratory work of last year pegamtite and quartz-tourmaline veins were found in the valley of the Collingwood River. These occurrences at Calder's Pass appear to offer strong confirmatory evidence in support of the view expressed last year—that there is connection between the granite outcrops at Cox's Bight and at Granite Tor. The question of the strension of this granite beneath the surface is one of great economic importance, since it is held that the greater part of the ore deposits of Western Tasmania have a definite genetic relationship with the magma from which the granite has consolidated. Mo metallic minerals having been observed in connection with these veins, no indication can be given as to their possible association with any deposits of the ores of valu-able metals. On the one hand tin ore, and on the other cupriferous gold ore might be found in association with tourmaline, but no higns of the presence of either vein-type were detected.

(d) The Head of the Jane River

(a) The Head of the Jane River. The Jane River takes its rise in the mountain called the Frenchman's Cap, and the main stream flows south-wards as if it would pass between the Surveyor's Range and Deception Range. But it turns abruptly at the south-ern end of Lightning Plain, and flows eastwards, cutting off the Surveyor's Range from the foothills of the French-man's Cap. The head waters are augmented by small contributing streams flowing in from both the northern and southern sides of the main stream.

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removed. An earlier stage in this cycle of erosion is exhibited by the area lying to the northward of the Raglan Range, where the Nelson River is steadily working northwards and carrying off the Silurian sediments which rest against the Pre-Cambrian of the Raglan Range.

the Pre-Cambrian of the Ragian Range. Throughout the district at the head of the Jane River all but the very base of the Ordovician seems to have dis-appeared, and the phenomena are not restricted to the valley of the Jane River only. For entirely similar features are shown by the Denison River, which lies to the east of the Prince of Wales Range. Again, a small bed of limestome was found during the expedition of last vear in the bottom of the gorge of the Surprise River, between Mt. King William I. and the Loddon Range. All these occurrences must be taken into account at the same time. If the correct explanation of them has been given, it is none the less remarkable that the drainage systems of to-day should have almost reached the level of the base of the Ordovician in so many places, while corrosion is still the prominent phase of denudation. The restriction of the present rivers to the early Palæo-

corrosion is still the prominent phase of denudation. The restriction of the present rivers to the early Palæo-zoic valleys seems to be largelv due to the superior hard-ness and consequent powers of resistance possessed by the more quartzose portions of the Pre-Cambrian schists which formed the ridges of the Pre-Ordovician topography. These ridges still remain prominent among the land forms of to-day: although it is, of course, evident that they have been modified during the present cycle of erosion.

After flowing for some miles towards the northern end of the Prince of Wales Range, the Jane River bends south-wards, and then returns towards the southern end of the Surveyor's Range. The river first turns abruptly to the southward at the base of a great rounded mountain, which I have named Algonkian Mountain, since it is largely composed of Upper Pre-Cambrian (or Algon-kian) sediments. In the time at my disposal I was unable to ascend this mountain, and regret that such a visit was impossible, for at a distance the summit appeared to be partly occupied by diabase. If this does prove to be the case, it seems probable that the diabase is a western out-lier of the masses which can be seen to the north and east, capping the Loddon and King William Ranges.

(e) The Surveyor's Range.

(e) The Surveyor's Range. The main stream of the Jane River system divides the Surveyor's Range from the Frenchman's Cap, having corroded a deep gorge between the two. The Surveyors' Range has an approximately meridional trend, and is deeply dissected, so that the ridge is crowned with a succession of eminences separated by deep gaps. The highest point of the range is on the largest of these eminences, which has a rounded top and steeply-graded sides. (1) The greater part of the range is constituted of foliated

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ing was that discovered in the Jane River and International above. The Pre-Cambrian schists extend for some distance to the westward. They form the substance of Deception Range, which is separated from the Surveyors' Range by the valley of the Acheron River and a southern branch of the head of the Jane River. The divide between the watersheds of the Acheron and Jane Rivers is a very low ridge, and the valley of the former appears to run back to the foothills of the Frenchman's Cap until a close exam-ination is made. At the south end of the Surveyors' Range the Jane River occupies a very deep and narrow gorge, and the

(1) The name "Mt. Elliott" has been applied to this rounded peak, but the name should be abandoned forthwith; for, on account of the neighbourhood of the Elliott Range, it is apt to to confusion.

rock exposed is still the micaceous schist. The bare peaks visible to the southward present the appearance of quartz schist from a distance, but I was unable to visit and examine them during this expedition.

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111.—TRACKS IN THE DISTRICT EXAMINED.

111.—TRACKS IN THE DISTRICT EXAMINED. It has been indicated that the district can best be approached by way of the Linda track, which is the main overland track between the West Coast and eastern Tas-mania. This track is in a very bad condition at a number of points between Gormanston and the toot of Mt. Arrow-smith. The smaller bridges and culverts are all in need of repairs at the present time, having been seriously impaired by the continually recurring floods. Horses cannot now be taken along this track without consider-able risk. From the Franklin River all nacking must be done

cannot now be taken along this track without consider-able risk. From the Franklin River all packing must be done without the help of horses, for the track leading south-wards is narrow and full of obstacles. It was cut in 1900 by Mr. J. L. Moore, and since that time has fallen into disrepair. Trees have fallen across it in the wooded country, and the stakes erected across the areas covered by button-grass have, for the most part, rotted and fallen. Snould any discovery be made in the future which might necessitate the frequent use of this track, it will require to be entirely reopened and restaked. The grade is steep on both sides of Mt. Mullens, but between the Loddon River and Calder's Pass there is only one small hill to cross. Moore's track from the pass is rough, and for the most part steep, until the top of the purveyors' Range is reached. The descent in either direc-tion from this range is exceedingly steep. The Jane River is crossed twice by this track, and must always prove a serious obstacle, since it rises very rapidly and floods are of frequent occurrence.

is crossed twice by this track, and must always prove a serious obstacle, since it rises very rapidly and floods are of frequent occurrence. The eastern branch track which was recently marked out for a short distance towards the Prince of Wales Range would, if completed, make it possible to travel southwards for some distance when the Jane River is too high to cross. In its present condition the track is useless. The eastern bank of the Jane River in the neighbourhood of Algonkian Mountain cannot be followed without the pre-liminary expenditure of much labour in track-cutting. In a few places the piners have marked out a rough track for a few yards between clumps of timber, but no con-tinuous track exists. To reach Moore's track from the eastward, at any point in its course, would prove a tedious and difficult matter, since the whole country is very heavily timbered. The Franklin River forms a serious obstacle on the westward. From the Gordon River on the south some track-cutting has been done in a northerly direction, but no junction with Moore's track has yet been effected.

IV.-CONCLUSION.

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I have the honour to be, Sir, Your obedient Servant,

L. KEITH WARD, B.A., B.E., Assistant Government Geologist

E. A. COUNSEL, Esq., Surveyor-General and Secretary for Lands.

APPENDIX C.

REPORT BY CHIEF FOREST OFFICER.

Department of Lands and Surveys,

Hobart, 1st July, 1909.

1 HAVE the honour to submit the following report on the Forest Branch of this Department for the year ending 30th June, 1909. *Revenue from Timber*.—The revenue received by the

30th June, 1909. Revenue from Timber.—The revenue received by the Department for the year 1908-9 under the heads rent of timber leases, royalty on timber cut on sawmilling, log-ging, and firewood leases, licence fees to obtain timber of all descriptions from Crown land, and timber inspection fees, show a small increase in the aggregate on the col-lections for the preceding 12 months of £28 6s. 9d. There is a decrease in the items rents and licences, and an increase in the items royalty and inspection fees. The items are as follows:—

Licences. Inspection Fees, Total. Rent. Royalty.

 \pounds s. d. $1907{-}8$ 929 10 0 860 5 3 1621 10 0 431 5 6 3842 16 9 1908{-}9 913 2 6 1042 6 8 1279 8 10 636 5 6 3871 3 6

The revenue in the form of licences for the right to strip wattle bark on Crown land for the year 1908-9 was £72. This is a little in excess of that received for the

Strip while our of the inexcess of that received for the preceding year. The royalty payable on beech or myrtle timber cut upon sawmilling, logging, or splitting leases which has hitherto come under the category of "other ornamental timbers." at the rate of 7s. 6d. per 1000 superficial feet, has been reduced to 2s. 6d. per 1000 feet, by regulation by the Governor in Council of 5th March, 1909. Sawmilling and Timber Industry.—The past 12 months has been a busy one for the timber industry, as is shown by the exports for the year. The value of the timber exported exceeds that of the preceding year by over. £40,000, and has not been equalled for over half a century; while the records show that the figures in respect of quantity have not been reached in the history of the State.

State. The total area of timber-bearing land held from the Crown is 96,547 acres, which consisted of 128 leases, held by 72 separate individuals or companies. Thirty-one new leases were issued during the year, comprising 19,276

leases were issued during the year, comprising acres. The Tasmanian Hardwood Corporation had the mis-fortune to have its extensive sawmilling plant, situated at Hopetoun, Dover, destroyed by fire in November last. The reconstruction of it has been undertaken, and it is anticipated that these works will be again in full opera-tion in the course of two or three months. A new company, the Hobart Timber Company, Limited, has recently been formed, and has taken over the saw-milling businesses of Messrs. Gray Brothers, Adventure Bay, and that of Messrs. Facy and Fisher, of Strath-blane, Port Esperance. Export Timber Trade.—The quantity and value of tim-ber exported from the State for the 12 months ending 31st December, 1908, was as follows:—

Foreign Exports.

Destination,	Quantity in super. feet.	and the second
New Zealand United Kingdom India Belgium. Germany Other British Ports Other Foreign Ports	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \pounds \\ 18,747 \\ 25,418 \\ 10,147 \\ 2302 \\ 2008 \\ 6281 \\ 8279 \end{array}$
	*16,768,540	£73,182
Transfe	rs, Interstate.	
New South Wales Victoria South Australia Western Australia Queensland	\dots 5,803,236 \dots 5,999,400 \dots $+4204$	$\substack{\substack{16,341\\40,529\\32,187\\654\\639}}$
	113,854,680	£90,350

816,280 palings, and 8000 laths not included in super. feet.
 † 641,147 palings, 266,276 staves, 1000 laths, and 36,701 pickets t included in super. feet.

‡ Door stocks not included in super. feet.

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bark, but swamp-gum should be excluded or be included only for certain purposes for which it is known to be adaptable.

only for certain purposes for which it is known to be adaptable. For the year ending 30th June, 1909, the quantity of timber exported from the State that received Government inspection, and for which certificates were issued, was 319,315 pieces, containing 10,730,701 superficial feet, shipped in 30 vessels, for which 39 certificates were issued. There were two shipments more than in the preceding year, and an increase in the number of pieces shipped of 18,182, containing 439,406 superficial feet of timber. *Timber Reserves.*—The constant drain upon the State must naturally cause a gradual lessening of the areas from which such supplies are derived, and it has been recog-nised for some years past that all available timber-bearing and must be withheld from selection by intending selectors for agricultural and pastoral purposes until the timber has first been removed from the land. There are at the present time 35 proclaimed timber reserves, contain-ing approximately 283,954 acres, of which about 117,000 acres have been reserved for the preservation and growth of the young race of trees that are already in various stages advancing towards maturity. The majority of these reserves are in the settled districts, and are gener-ally in the vicinity of lands that are now being operated upon for the production of marketable timber, and the trees on them for the most part consist of the varieties of eucalypts that form the staple export timbers of the State. It is in the settled districts that it is more neces-sary to use every available method for the protection of the timber-bearing lands. In the outlying and inaccessible places at present shut off from all communication there is very little cause for apprehending any danger to the forests by the advancement of settlement for many years

There are several localities in fairly favourable situ-ations where there are both mature and young trees that it is very desirable to save the future supplies of hardwood.

I propose, as opportunity offers, visiting Lady Bay, Parish of Garrett, Buckland, and Triabunna, Parish of Hodgson, and Mount Arthur, Parish of Patersonia, where I am aware there is Crown land on which good timber is said to exist, and on ascertaining the nature of it, the extent of the areas, and the boundaries of them, I will recom-mend that such of them as are found to be suitable shall be added to the timber reserves that have already been proclaimed.

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proclaimed. *Timber Samples.*—The number of applications that have been received for samples of Tasmanian timbers has been very considerable, and these have in all cases been sup-plied. They have all been provided by the Railway Department, at cost price, and have been turned out by the railway workshops in a most satisfactory manner. The majority of the applications have been from timber merchants, railway companies, and contractors, and the distribution of them has been to all parts of the world.

distribution of them has been to all parts of the world. Timber Pamphlet.—The pamphlet "Tasmanian For-estry, Timber Products, and Sawmilling Industry," of which a large number were printed by the Department a few years ago, has been much sought after and greatly appreciated. It has proved a most excellent advertise-ment. The stock has now run out, there being no copies left on hand. I am awaiting approval for the printing of a second edition, when the compilation of it will be undertaken without delay, in order to meet the constant demands that are being made from all quarters for copies of this very useful publication.

I have the honour to be, Sir, Your obedient Servant,

> J. COMPTON PENNY, Chief Forest Officer.

The Secretary for Lands, Hobart.

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APPENDIX D.

No. 1.

GENERAL RETURN, Crown Lands Branch.

$ \begin{array}{c} 1 & {\rm id} \\ 1 & {\rm id} \\ {\rm add} & {\rm adv}(1, n) = \left\{ \begin{array}{c} 1 & {\rm id} \\ {\rm $	1899.	1900.	1901.	1902.	1903.	1904.	1905.	1906.	1907.	1908.
to other a second second				141-						
Receipts from all sources £	55,860	55,804	57,303	66,140	73,086	57,407	61,248	70,585	78,314	83,151
Receipts from Deposits and	1		1100	1					The state	
Instalments (Selectio n £ Receipts from other Sales	20,086	18,115	21,111	25,273	26,537	28,775	27,559	31,118	36,885	46,773
of Crown Lands £ Rent of Crown Land for	15,597	17,530	14,762	16,094	15,078	11,784	14,838	13,800	16,110	11,366
Pastoral purposes £ Rent of Government pro-	1.	7326	7041	8328	8325	7514	6861	6118	6964	6820
Fees for Licences, Grant		•••			1170	1028	1100	1019	1232	1908
Deeds, &c £ Susveys Fees £	2089 12,363	$2746 \\ 10,087$	4156 10,233	$4882 \\ 11,563$	4664 17,312		and the second se	5607 12,923	5257 11,866	6092 10,192
Area of Country Lands sold	32,050	39,435	62,073	64,474	87,073	132,629	168,749	142,732	124,905	125,197
Area of Town, and Sub- urban Lots sold acres Area of Land leased for	840	928	. 636	663	1577	1225	Sec. and	3	2093	1632
Pastoral purposes acres Area of Land leased under "The Closer Settlement	216,634	428,969	285,160	182,339	177,347	124,020	135,791	197,686	112,723	112,100
Act"									10,365	18,756
Number of Applications for Selection and Purchase Number of Grant Deeds	1663	1784	1959	2579	2973	3981	3129	2670	2833	3225
issued	635	748	680	783	627	541	459	575	686	:67

No. 2.

RETURN showing the Number of Lots and Area of Land purchased under " The Crown Lands Acts, 1903, 1905, and 1907," during the Twelve Months ending 30th June, 1908, and 30th June, 1909, respectively.

	Twelve Months ending 30th June, 1908.		Twelve Months ending 30th June, 1909.		
The State of the State	No. of Lots.	Area.	No. of Lots.	Area.	
Frown Lands Acts, 1903, 1905, and 1907,		ACRES.		ACRES.	
(Selection) first-class land	394 38	25,933	518	35,153	
econd-class	259	$1345 \\ 25,876$	47 285 1	$1695 \\ 35,309$	
hird-class	236	57,437	327	89,359	
TOTALS	927	90,591	1177	161,516	







