

magnetic values of great scientific importance in connection with the study of the earth's magnetism.

(3) *Resurveys and retracement.*—Three surveyors will be employed on resurveys and one in retracing base lines. These retracements or resurveys are made either for the purpose of correcting errors in the original survey or to establish new boundary monuments in cases where the markings of the older surveys have disappeared.

(4) *Stadia surveys.*—Eleven surveyors will be engaged this season on stadia surveys in Saskatchewan and Alberta. These surveys are made for the purpose of determining the extent of water areas as they now exist. At the time of the early surveys many bodies of water existed which have now partially or entirely dried up, leaving considerably more land available for settlement. In some instances bodies of water are found which did not exist, or were not noticed by the surveyor when subdividing the townships; in other instances the courses of rivers are found to have greatly altered. Each township is carefully examined by a stadia party and the information collected is used in the compilation of new township plans representing conditions as they are at present.

(5) *Inspection of surveys.*—Six Dominion land surveyors will act as inspectors this season. It is their duty to visit the camps of surveyors in charge of parties, and to report to the Surveyor-General on their instrumental equipment and outfits, the work performed and the general fitness of the surveyor to have charge of a party. When not engaged on inspection work, the inspectors occupy their time as far as possible in the performance of subdivision and miscellaneous surveys that are required.

The B.C.—Alberta boundary.—The survey of the interprovincial boundary will be continued this year. This survey was started in 1913 and has been continued every season since. So far all work has been done to the south of the main line of the C.P.R. at Kicking Horse Pass. A great deal of work still remains to be done on this boundary.

Levelling.—Levelling operations will again be under the direction of S. N. Wallace, D.L.S., whose office is in Calgary. Over 10,000 miles of levels have already been run and a publication is now in the hands of the printers giving in tabulated form the information collected by the surveyors for 7,400 miles of levels already taken.

In addition to the above, four surveyors will be in charge of travelling parties to carry on miscellaneous small surveys, to investigate errors, the drying up of lakes, lost monuments, etc.

(In the following list are given: the name of the surveyor, his home address, the character and location of his work for this season, and the place where his party will organize.)

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| J. R. Akins, Edmonton—Base lines north-west of Peace River Crossing.—Edmonton. | lines east of Lac la Biche.—Prince Albert. |
| C. F. Aylesworth, Madoc—Resurveys southeast of Hudson Bay Junction.—Winnipeg. | W. J. Boulton, Top. Surveys Branch, Ottawa—Stadia survey southeast of Calgary.—High River. |
| J. C. Baker, Kingston—Subdivisions northwest of Peace River Crossing.—Edmonton. | E. P. Bowman, Top. Surveys Branch, Ottawa—Stadia survey northwest of Battleford.—Battleford. |
| G. A. Bennett, Top. Surveys Branch, Ottawa—Stadia survey vicinity of Saskatoon.—Saskatoon. | L. Brenot, Edmonton—Subdivision Upper Peace River.—Edmonton. |
| G. H. Blanchet, Ile a la Crosse, Sask.—Base | J. H. Brownlee, Dawson, Yukon Territory—Director of Surveys, Yukon Territory.—Dawson. |
| | J. A. Buchanan, Edmonton—Subdivision |