

During the year under report harmonic analysis of the tidal curves of the self-registering tide-gauge records of the ports of Dunedin and Westport have been completed, and is now under check.

Continuous records have been obtained at the New Plymouth tidal station of the tide curve from the self-registering tide-gauge, and other meteorological data, together with the temperature of the sea, up to the end of August, 1921, when observations were discontinued, sufficient information having been obtained for requirements.

The mean values for each month of the temperature of the air, surface of the sea, and height of the barometer from the 1st April, 1921, to the 31st August, 1921, are given below; also the mean monthly values for the period September, 1918, to August, 1921, inclusive.

TABLE E.  
*New Plymouth Tidal Station—Mean Monthly Values.*

| Date.  |    |    |    |    | Barometer. | Attached Thermometer. | Temperature of Air. | Temperature of Sea. |
|--------|----|----|----|----|------------|-----------------------|---------------------|---------------------|
| 1921.  |    |    |    |    | In.        | Deg. (F.).            | Deg. (F.).          | Deg. (F.).          |
| April  | .. | .. | .. | .. | 30.17      | 55.97                 | 56.93               | 56.00               |
| May    | .. | .. | .. | .. | 30.21      | 54.41                 | 53.45               | 54.23               |
| June   | .. | .. | .. | .. | 30.11      | 53.00                 | 54.17               | 56.07               |
| July   | .. | .. | .. | .. | 30.06      | 51.42                 | 52.42               | 54.39               |
| August | .. | .. | .. | .. | 30.08      | 51.61                 | 52.90               | 53.42               |

*Mean Monthly Values for the Period September, 1918, to August, 1921, inclusive.*

| Month.    |    |    |    |    | Barometer. | Attached Thermometer. | Temperature of Air. | Temperature of Sea. |
|-----------|----|----|----|----|------------|-----------------------|---------------------|---------------------|
|           |    |    |    |    | In.        | Deg. (F.).            | Deg. (F.).          | Deg. (F.).          |
| January   | .. | .. | .. | .. | 30.05      | 63.69                 | 65.01               | 58.59               |
| February  | .. | .. | .. | .. | 30.14      | 65.07                 | 66.37               | 60.75               |
| March     | .. | .. | .. | .. | 30.12      | 61.78                 | 63.51               | 59.77               |
| April     | .. | .. | .. | .. | 30.17      | 57.19                 | 57.78               | 57.09               |
| May       | .. | .. | .. | .. | 30.12      | 53.41                 | 52.79               | 54.51               |
| June      | .. | .. | .. | .. | 30.08      | 52.12                 | 51.92               | 53.89               |
| July      | .. | .. | .. | .. | 30.12      | 50.17                 | 50.01               | 52.09               |
| August    | .. | .. | .. | .. | 30.02      | 50.98                 | 50.74               | 51.31               |
| September | .. | .. | .. | .. | 30.06      | 52.57                 | 53.10               | 51.77               |
| October   | .. | .. | .. | .. | 30.07      | 56.43                 | 57.21               | 54.06               |
| November  | .. | .. | .. | .. | 29.99      | 58.25                 | 59.40               | 55.21               |
| December  | .. | .. | .. | .. | 30.02      | 60.83                 | 62.16               | 55.75               |

## APPENDIX II.

### SURVEYORS BOARD.

THE examinations in September, 1921, and March, 1922, were held as usual. For the former thirty-one candidates sat, being nineteen new and twelve completing former passes; for the March examination twenty-six candidates sat, being eleven new and fifteen completing. At the March examination seven new candidates passed, with five completing; in September one new and eight completing succeeded, adding twenty-one to the list of New Zealand licensed surveyors.

Deaths were reported of seven surveyors, one of whom, Mr. R. O. Smart, had but just passed, and was murdered in the Federated Malay States soon after taking up duty there. Quite a number of New-Zealand-trained men are now in those States owing to the slackness of survey-work at home.

The number of licensed surveyors on the list is now 485.

The year's transactions were made important in the first place by the consideration and recasting of the legislation under which the Board and the Surveyor-General separately make regulations for the conduct of surveys. This was agreed upon and forwarded to the Government for amendment of the respective Acts, but did not become law during last session. One feature of the new provisions is the raising of the fee for the license from 10s. 6d. to £5 5s.

Following upon this the full Board considered and prepared a complete set of new regulations governing all surveys on which titles to land are based, excluding, however, scientific surveys. These regulations are not yet issued, pending the above amendment of the law, and the preparation of the illustrative appendices, which are in hand.

The membership of the Board was not changed at its reappointment in 1922, and consists of the Surveyor-General (Chairman), Messrs. Thomas Humphries and Thomas Brook (Government appointees), and Messrs. H. Sladden and Preston Chambers (Institute nominees).

The number of candidates offering for examination has exceeded considerably those of the other reciprocating Boards, with the exception of New South Wales. This is due, it is believed, to the scarcity of labour during the war leading surveyors to substitute apprentices for linemen, and these are now finishing their teaching period and sitting for the examination.

W. T. NEILL, Chairman.

M. CROMPTON SMITH, Secretary.