

The machine-running times, together with details of outages and shut-downs, are as follows:—

| ---              | Running Time. |    |             | Idle Time. |    |             | Outage Time<br>(under<br>Repair). |    | Outage Time<br>on Demand. |    | Percentage<br>Availability<br>for Service. |  |
|------------------|---------------|----|-------------|------------|----|-------------|-----------------------------------|----|---------------------------|----|--------------------------------------------|--|
| <i>Coleridge</i> |               |    |             |            |    |             |                                   |    |                           |    |                                            |  |
|                  | h.            | m. | Percentage. | h.         | m. | Percentage. | h.                                | m. | h.                        | m. | Percentage.                                |  |
| 1                | 6,501         | 30 | 74·3        | 2,141      | 20 | 24·4        | 117                               | 10 | ..                        | .. | 98·65                                      |  |
| 2                | 6,203         | 00 | 70·8        | 1,964      | 10 | 22·4        | 590                               | 50 | 2                         | 0  | 93·26                                      |  |
| 3                | 4,946         | 25 | 56·5        | 1,919      | 45 | 21·9        | 1,893                             | 50 | ..                        | .. | 78·4                                       |  |
| 4                | 1,916         | 11 | 21·9        | 5,027      | 19 | 57·4        | 1,816                             | 30 | ..                        | .. | 79·3                                       |  |
| 5                | 1,816         | 30 | 20·7        | 6,943      | 30 | 79·3        | ..                                | .. | ..                        | .. | 100·0                                      |  |
| 6                | 1,611         | 55 | 18·4        | 7,045      | 15 | 80·5        | 102                               | 50 | ..                        | .. | 98·83                                      |  |
| 7                | 1,674         | 15 | 19·1        | 7,071      | 35 | 80·7        | 14                                | 10 | ..                        | .. | 99·8                                       |  |
| 8                | 2,999         | 00 | 34·2        | 5,524      | 30 | 63·1        | 236                               | 30 | ..                        | .. | 97·31                                      |  |
| 9                | 3,238         | 35 | 37·0        | 3,841      | 15 | 43·7        | 1,680                             | 10 | ..                        | .. | 80·7                                       |  |
| <i>Waitaki</i>   |               |    |             |            |    |             |                                   |    |                           |    |                                            |  |
| 1                | 7,790         | 45 | 88·9        | 774        | 50 | 8·9         | 194                               | 25 | ..                        | .. | 97·8                                       |  |
| 2                | 7,700         | 07 | 87·9        | 991        | 13 | 11·3        | 64                                | 40 | ..                        | .. | 99·26                                      |  |
| 3                | 6,217         | 08 | 71·0        | 2,365      | 27 | 27·0        | 177                               | 25 | ..                        | .. | 97·98                                      |  |
| 4                | 5,842         | 07 | 66·7        | 2,739      | 43 | 31·3        | 178                               | 10 | ..                        | .. | 97·97                                      |  |
| <i>Arnold</i>    |               |    |             |            |    |             |                                   |    |                           |    |                                            |  |
| 1                | 7,978         | 25 | 91·1        | ..         | .. | ..          | 781                               | 35 | ..                        | .. | 91·08                                      |  |
| 2                | 8,758         | 05 | 99·9        | ..         | .. | ..          | 1                                 | 55 | ..                        | .. | 99·98                                      |  |
| <i>Dobson</i>    |               |    |             |            |    |             |                                   |    |                           |    |                                            |  |
| 1                | 107           | 09 | 1·2         | 8,652      | 51 | 98·8        | ..                                | .. | ..                        | .. | 100·0                                      |  |
| 2                | 117           | 48 | 1·3         | 8,642      | 12 | 98·7        | ..                                | .. | ..                        | .. | 100·0                                      |  |
| 3                | 114           | 55 | 1·3         | 8,645      | 05 | 98·7        | ..                                | .. | ..                        | .. | 100·0                                      |  |
| 4                | 17            | 39 | 0·2         | 2,375      | 52 | 27·1        | 6,366                             | 29 | ..                        | .. | 27·3                                       |  |
| <i>Highbank*</i> |               |    |             |            |    |             |                                   |    |                           |    |                                            |  |
| Main             | 2,559         | 04 | 35·9        | 4,568      | 56 | 64·1        | ..                                | .. | ..                        | .. | 100·0                                      |  |

\* From 8th June, 1945, only.

### (b) Transmission and Distribution

The most severe weather conditions ever recorded in the north Canterbury and Coleridge districts were experienced during the year. Sixteen inches of snow fell at Coleridge on 14th July, and lay for seven weeks in sheltered places near Coleridge village.

On 8th August heavy snow did considerable damage to the Coleridge-Hororata transmission-lines, Coleridge Station being isolated from the system for 9 hours 16 minutes.

On 31st August and 1st September a violent north-west gale swept across Canterbury, doing further damage to transmission and telephone lines.

On each of these occasions supply to consumers was seriously interrupted, the worst conditions being experienced during the July outage, when South Canterbury Power Board was without supply for 10 hours 5 minutes. Ashburton Power Board for 21 hours 13 minutes, Waitaki Power Board for 18 minutes, North Canterbury Power Board for 36 hours., and Banks Peninsula Power Board for 35 hours.

There was also a number of short interruptions to the West Coast supply due to the opening of the O.C.B.s at Coleridge during the storm. Supply to the West Coast in general was satisfactory throughout the year, there being no failures on the transmission-lines between Coleridge and that area.

Routine inspections, insulator testing, and general maintenance was performed.