



LAND & DEEDS OFFICE

- 8 APR 1986

CHIEF CLERK

SUPPLEMENT  
TO THE  
**NEW ZEALAND GAZETTE**  
OF  
WEDNESDAY, 26 MARCH 1986

*Published by Authority*

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WELLINGTON: THURSDAY, 27 MARCH 1986

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**CLIMATOLOGICAL TABLE**  
FOR JANUARY 1986

NEW ZEALAND METEOROLOGICAL SERVICE

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1986

| Station               | Height of Station Above M.S.L. | Air Temperature in Degrees Celsius |        |                 |                        |                              |      |         |      | Rainfall in Millimetres |                  |                        |              | Bright Sun-shine Hrs |      |
|-----------------------|--------------------------------|------------------------------------|--------|-----------------|------------------------|------------------------------|------|---------|------|-------------------------|------------------|------------------------|--------------|----------------------|------|
|                       |                                | Means of                           |        | Mean of A and B | Difference From Normal | Absolute Maximum and Minimum |      |         |      | Total Fall              | No. of Rain Days | Difference From Normal | Maximum Fall |                      |      |
|                       |                                | A Max.                             | B Min. |                 |                        | Maximum                      | Date | Minimum | Date |                         |                  |                        | Amount       |                      | Date |
|                       | Metres                         | °C                                 | °C     | °C              | °C                     | °C                           | °C   |         |      | mm                      |                  | mm                     | mm           |                      |      |
| Cape Reinga           | 191                            | 22.8                               | 17.0   | 19.9            | +1.3                   | 24.5                         | 2    | 12.4    | 30   | 160                     | 17               | +97                    | 53           | 4                    | ..   |
| Aupouri Forest        | 69                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Kaitaia               | 8                              | 25.3                               | 16.6   | 21.0            | ..                     | 28.3                         | 16   | 11.3    | 30   | 252                     | 12               | ..                     | 87           | 2                    | ..   |
| Kaitaia               | 85                             | 24.6                               | 16.6   | 20.6            | ..                     | 27.8                         | 16   | 12.0    | 1    | 197                     | 16               | ..                     | 78           | 25                   | 194  |
| Kerikeri M A F        | 79                             | 24.0                               | 15.8   | 19.9            | ..                     | 26.2                         | 16   | 11.2    | 1    | 373                     | 19               | ..                     | 163          | 25                   | ..   |
| Kerikeri Downs        | 74                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Kerikeri Downs 2      | 74                             | 23.6                               | 15.2   | 19.4            | ..                     | 25.4                         | 3    | 10.6    | 1    | 315                     | 18               | ..                     | 123          | 25                   | ..   |
| Kerikeri Aerodrome    | 150                            | 24.0                               | 15.7   | 19.9            | ..                     | 28.2                         | 9    | 10.6    | 30   | 365                     | 14               | ..                     | 113          | 25                   | ..   |
| Umawera               | 9                              | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Panguru               | 9                              | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Kaikohe               | 204                            | 23.3                               | 15.5   | 19.4            | +0.6                   | 26.4                         | 15   | 11.4    | 30   | 179                     | 15               | +88                    | 51           | 25                   | 171  |
| Waiotemarama          | 229                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Waipoua Forest        | 88                             | 24.7                               | 14.6   | 19.7            | +1.7                   | 28.5                         | 18   | 8.0     | 30   | 222                     | 11               | +150                   | 98           | 3                    | ..   |
| Dargaville            | 20                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Waitangi Forest       | 55                             | 23.4                               | 16.2   | 19.8            | +0.2                   | 25.5                         | 9    | 11.8    | 3    | 224                     | 15               | +143                   | 100          | 25                   | 186  |
| Glenbervie Forest     | 107                            | ..                                 | 13.4   | ..              | ..                     | ..                           | ..   | 6.0     | 1    | 240                     | 15               | +144                   | 81           | 4                    | ..   |
| Whangarei Airport     | 37                             | 24.8                               | 16.4   | 20.6            | +0.9                   | 28.4                         | 9    | 11.1    | 1    | 162                     | 15               | +85                    | 39           | 4                    | ..   |
| Whangarei             | 29                             | 25.5                               | 15.6   | 20.6            | +1.3                   | 28.5                         | 11   | 9.8     | 1    | 163                     | 12               | ..                     | 47           | 25                   | 189* |
| Marsden Power Stn     | 3                              | 25.6                               | 16.4   | 21.0            | +1.2                   | 28.2                         | 12   | 10.0    | 8    | 211                     | 14               | +131                   | 83           | 4                    | ..   |
| Pouo                  | 97                             | 24.2                               | 17.3   | 20.8            | ..                     | 28.6                         | 19   | 13.7    | 1    | 221                     | 12               | ..                     | 115          | 3                    | ..   |
| Leigh                 | 27                             | 23.1                               | 17.9   | 20.5            | +1.5                   | 25.0                         | 10   | 13.8    | 29   | 171                     | 14               | +107                   | 51           | 25                   | 208  |
| Warkworth             | 72                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Woodhill Forest       | 30                             | 24.5                               | 15.5   | 20.0            | +1.5                   | 28.1                         | 19   | 8.8     | 1    | 177                     | 12               | +107                   | 37           | 5                    | ..   |
| Riverhead Forest      | 28                             | 24.7                               | 14.7   | 19.7            | +1.5                   | 28.7                         | 18   | 8.1     | 1    | 183                     | 10               | +111                   | 54           | 4                    | ..   |
| Kumeu                 | 32                             | 25.1                               | 14.5   | 19.8            | +1.8                   | 29.0                         | 18   | 7.9     | 1    | 186                     | 9                | ..                     | 47           | 25                   | ..   |
| Whenuapai             | 26                             | 24.6                               | 15.2   | 19.9            | +1.3                   | 28.0                         | 18   | 6.5     | 30   | 156                     | 12               | +88                    | 40           | 25                   | ..   |
| River Park Henderson  | 4                              | 26.1                               | 15.5   | 20.8            | ..                     | 29.9                         | 19   | 9.1     | 1    | 168                     | 12               | ..                     | 44           | 25                   | ..   |
| Albert Park Auckland  | 49                             | 24.6                               | 17.8   | 21.2            | +1.4                   | 27.5                         | 19   | 12.2    | 30   | 223                     | 15               | +158                   | 86           | 4                    | 195* |
| Owairaka, Auckland    | 41                             | 24.2                               | 16.8   | 20.5            | +1.5                   | 27.4                         | 18   | 10.5    | 30   | 196                     | 13               | +124                   | 59           | 25                   | ..   |
| Port Fitzroy          | 4                              | 24.8                               | 16.0   | 20.4            | +1.2                   | 27.0                         | 15   | 11.5    | 1    | 182                     | 13               | +74                    | 100          | 25                   | ..   |
| Little Barrier Is     | 2                              | 24.0                               | 17.5   | 20.8            | ..                     | 26.4                         | 17   | 13.1    | 1    | 244                     | 12               | +166                   | 115          | 3                    | ..   |
| Rotoroa Is            | 30                             | ..                                 | 18.1   | ..              | ..                     | ..                           | ..   | 14.1    | 30   | 89                      | 11               | ..                     | 42           | 3                    | ..   |
| Awaroa Valley         | 30                             | 24.4                               | 16.5   | 20.5            | ..                     | 26.9                         | 19   | 11.5    | 1    | 230                     | 10               | ..                     | 71           | 25                   | ..   |
| Manukau Heads         | 244                            | 23.4                               | 16.5   | 20.0            | ..                     | 27.9                         | 19   | 10.3    | 30   | 136                     | 11               | +80                    | 32           | 25                   | ..   |
| Coromandel            | 43                             | 25.3                               | 16.1   | 20.7            | ..                     | 29.3                         | 19   | 9.7     | 1    | 230                     | 12               | ..                     | 90           | 25                   | ..   |
| Whangapoua Forest     | 4                              | 24.9                               | 14.5   | 19.7            | +1.0                   | 28.2                         | 11   | 8.4     | 30   | 272                     | 10               | +165                   | 143          | 25                   | ..   |
| Thames                | 3                              | 25.3                               | 17.4   | 21.4            | +1.7                   | 28.1                         | 18   | 8.9     | 30   | 107                     | 14               | +44                    | 32           | 25                   | ..   |
| Tairua Forest         | 3                              | 24.5                               | 14.9   | 19.7            | +0.7                   | 27.8                         | 18   | 7.3     | 30   | 174                     | 9                | +78                    | 88           | 25                   | ..   |
| Ngatea                | 1                              | 26.4                               | 14.5   | 20.5            | ..                     | 32.0                         | 17   | 6.7     | 30   | 137                     | 14               | ..                     | 35           | 25                   | ..   |
| Paeroa                | 4                              | 26.1                               | 15.6   | 20.9            | +1.7                   | 31.2                         | 19   | 6.2     | 30   | 184                     | 15               | +111                   | 41           | 5                    | ..   |
| Waihi                 | 91                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Te Aroha              | 18                             | 25.9                               | 16.4   | 21.2            | +1.6                   | 30.8                         | 19   | 9.3     | 30   | 145                     | 13               | +60                    | 40           | 25                   | ..   |
| Katikati              | 2                              | 25.2                               | 16.1   | 20.7            | ..                     | 29.3                         | 18   | 8.2     | 30   | 261                     | 11               | ..                     | 108          | 4                    | ..   |
| Waharoa               | 60                             | 25.3                               | 15.3   | 20.3            | ..                     | 30.2                         | 18   | 6.1     | 30   | 150                     | 13               | ..                     | 56           | 3                    | ..   |
| Tauranga              | 2                              | 23.8                               | 17.2   | 20.5            | +1.4                   | 27.7                         | 10   | 9.4     | 30   | 113                     | 12               | +32                    | 64           | 25                   | ..   |
| Tauranga Airport      | 4                              | 24.3                               | 16.2   | 20.3            | +1.4                   | 27.4                         | 10   | 8.3     | 30   | 119                     | 12               | +40                    | 63           | 25                   | 211  |
| Te Puke               | 91                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Rotoehu Forest        | 72                             | 24.0                               | 14.4   | 19.2            | +1.3                   | 27.8                         | 19   | 4.5     | 30   | 99                      | 11               | +4                     | 24           | 2                    | ..   |
| Whakatane Airport     | 6                              | 24.4                               | 15.0   | 19.7            | +1.3                   | 28.4                         | 28   | 6.4     | 30   | 160                     | 14               | +83                    | 92           | 25                   | 210  |
| Te Kaha               | 6                              | 24.4                               | 16.4   | 20.4            | ..                     | 26.5                         | 19   | 10.1    | 30   | 178                     | 9                | ..                     | 140          | 25                   | ..   |
| Port Ohope            | 9                              | 24.2                               | 17.0   | 20.6            | +1.4                   | 27.8                         | 28   | 10.4    | 30   | 140                     | 12               | ..                     | 90           | 25                   | 198  |
| Kinleith              | 383                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | 287                     | 15               | +180                   | 74           | 6                    | ..   |
| Tikitere              | 338                            | 22.3                               | 14.6   | 18.5            | +1.2                   | 27.8                         | 19   | 7.1     | 30   | 367                     | 16               | ..                     | 134          | 4                    | ..   |
| Kawerau               | 30                             | 25.5                               | 15.5   | 20.5            | +1.0                   | 31.0                         | 19   | 7.0     | 10   | 250                     | 11               | +134                   | 150          | 25                   | ..   |
| Te Teko               | 8                              | 27.0                               | 15.4   | 21.2            | +2.0                   | 32.4                         | 19   | 5.6     | 30   | 201                     | 11               | +104                   | 151          | 25                   | 195  |
| Rotorua Airport       | 287                            | 22.9                               | 14.7   | 18.8            | +1.2                   | 28.5                         | 19   | 6.1     | 30   | 360                     | 15               | +270                   | 131          | 4                    | 195  |
| Waiotapu Forest       | 435                            | 22.4                               | 12.1   | 17.3            | +0.8                   | 27.7                         | 19   | 3.5     | 30   | 288                     | 14               | +200                   | 106          | 4                    | ..   |
| Atiamuri Power Stn    | 253                            | 24.5                               | 13.8   | 19.2            | +1.4                   | 30.6                         | 19   | 4.0     | 30   | 169                     | 17               | +78                    | 34           | 25                   | ..   |
| Kaingaroa Forest      | 544                            | 21.9                               | 12.8   | 17.4            | +1.1                   | 27.8                         | 19   | 3.0     | 30   | 324                     | 16               | +221                   | 68           | 4                    | ..   |
| Murupara              | 198                            | 24.8                               | 14.3   | 19.6            | +1.4                   | 30.6                         | 18   | 5.7     | 30   | 271                     | 15               | +174                   | 60           | 3                    | ..   |
| Ohaaki                | 350                            | 23.7                               | 12.6   | 18.2            | ..                     | 29.4                         | 18   | 6.0     | 10   | 162                     | 16               | ..                     | 53           | 3                    | ..   |
| Wairapukao Forest     | 437                            | 23.2                               | 12.0   | 17.6            | +1.2                   | 29.5                         | 13   | 1.1     | 30   | 287                     | 14               | +189                   | 71           | 4                    | ..   |
| Taupo                 | 376                            | 23.7                               | 13.4   | 18.6            | +1.3                   | 29.0                         | 18   | 5.5     | 30   | 185                     | 15               | +104                   | 47           | 25                   | 177  |
| Wairakei Power Stn    | 342                            | 24.0                               | 13.4   | 18.7            | +1.2                   | 29.5                         | 18   | 3.8     | 30   | 186                     | 13               | +106                   | 58           | 25                   | ..   |
| Wairakei Research Stn | 402                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..                   | ..   |
| Minginui Forest       | 366                            | 23.6                               | 13.3   | 18.5            | +1.7                   | 30.0                         | 18   | 4.5     | 30   | 275                     | 14               | +163                   | 82           | 3                    | ..   |
| Taupo Airport         | 400                            | 22.9                               | 13.1   | 18.0            | +0.8                   | 27.4                         | 18   | 3.5     | 30   | 187                     | 14               | +114                   | 46           | 20                   | ..   |
| Waimihia Forest       | 743                            | 20.2                               | 11.2   | 15.7            | +1.1                   | 26.0                         | 18   | 2.9     | 30   | 271                     | 14               | +159                   | 68           | 25                   | ..   |
| Opotiki               | 6                              | 24.1                               | 16.5   | 20.3            | +1.8                   | 29.8                         | 19   | 8.9     | 30   | 148                     | 10               | +66                    | 100          | 25                   | 218  |
| Waimana               | 37                             | 24.9                               | 15.2   | 20.1            | +1.5                   | 30.8                         | 19   | 7.2     | 30   | 262                     | 11               | +151                   | 155          | 25                   | ..   |
| Mangere Auckland      | 4                              | 24.5                               | 17.0   | 20.8            | +1.5                   | 28.8                         | 19   | 9.8     | 30   | 221                     | 14               | +160                   | 52           | 4                    | 210  |
| Otara Auckland        | 12                             | 24.5                               | 16.3   | 20.4            | +1.7                   | 28.3                         | 19   | 9.2     | 1    | 286                     | 14               | +222                   | 79           | 4                    | ..   |
| Auckland Airport      | 8                              | 24.3                               | 17.2   | 20.8            | +1.5                   | 28.7                         | 19   | 11.6    | 30   | 206                     | 14               | +140                   | 56           | 4                    | 220  |
| Ardmore               | 30                             | 24.7                               | 15.4   | 20.1            | +1.7                   | 28.3                         | 19   | 8.9     | 1    | 316                     | 15               | +249                   | 142          | 4                    | ..   |
| Pukekohe              | 82                             | 24.1                               | 15.5   | 19.8            | +1.6                   | 28.3                         | 19   | 10.0    | 1    | 259                     | 16               | ..                     | 48           | 4                    | 144  |

CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1986—continued

| Station               | Height of Station Above M.S.L. | Air Temperature in Degrees Celsius |        |                 |                         |                              |      |          |      | Rainfall in Millimetres |                  |                         |              | Bright Sun—shine<br>Hrs |      |
|-----------------------|--------------------------------|------------------------------------|--------|-----------------|-------------------------|------------------------------|------|----------|------|-------------------------|------------------|-------------------------|--------------|-------------------------|------|
|                       |                                | Means of                           |        | Mean of A and B | Differ—ence From Normal | Absolute Maximum and Minimum |      |          |      | Total Fall              | No. of Rain Days | Differ—ence From Normal | Maximum Fall |                         |      |
|                       |                                | A Max.                             | B Min. |                 |                         | Maxi—mum                     | Date | Mini—mum | Date |                         |                  |                         | Amount       |                         | Date |
|                       |                                | Metres                             | °C     | °C              | °C                      | °C                           | °C   | °C       | °C   | mm                      | mm               | mm                      | mm           |                         | Hrs  |
| Maio Forest           | 52                             | 24.4                               | 16.2   | 20.3            | +1.7                    | 28.6                         | 17   | 10.3     | 1    | 131                     | 13               | +54                     | 34           | 4                       | ..   |
| Hunua                 | 122                            | 24.0                               | 14.3   | 19.2            | ..                      | 28.5                         | 18   | 8.0      | 1    | 267                     | 13               | ..                      | 77           | 4                       | ..   |
| Maramarua Forest      | 38                             | 24.8                               | 14.4   | 19.6            | +1.5                    | 30.4                         | 19   | 5.2      | 30   | 267                     | 14               | +200                    | 70           | 6                       | ..   |
| Te Kauwhata           | 32                             | 25.0                               | 15.4   | 20.2            | +1.5                    | 30.2                         | 19   | 8.0      | 30   | 189                     | 17               | +124                    | 59           | 4                       | 187  |
| Huntly                | 34                             | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Ruakura Hamilton      | 40                             | 24.6                               | 15.1   | 19.9            | +2.0                    | 29.5                         | 19   | 7.1      | 30   | 235                     | 12               | +159                    | 47           | 25                      | 188  |
| Whatawhata            | 104                            | 24.2                               | 15.2   | 19.7            | +1.9                    | 29.7                         | 19   | 6.5      | 30   | 226                     | 13               | +132                    | 71           | 25                      | 189  |
| Hamilton Airport      | 50                             | 25.2                               | 14.3   | 19.8            | +2.2                    | 30.5                         | 19   | 4.6      | 30   | 218                     | 12               | +145                    | 57           | 7                       | ..   |
| Cambridge             | 76                             | 25.0                               | 15.0   | 20.0            | +2.0                    | 30.3                         | 19   | 7.1      | 30   | 157                     | 13               | +76                     | 35           | 25                      | ..   |
| Mohakatino Stn Mokau  | 46                             | 23.4                               | 16.4   | 19.9            | +2.1                    | 26.0                         | 19   | 9.0      | 30   | 102                     | ..               | +3                      | 32           | 25                      | ..   |
| Arapuni Power Stn     | 123                            | 24.9                               | 14.7   | 19.8            | +1.2                    | 31.5                         | 19   | 7.5      | 27   | 230                     | 15               | +148                    | 54           | 25                      | ..   |
| Waikeria              | 46                             | 24.9                               | 14.5   | 19.7            | +1.6                    | 30.6                         | 19   | 4.9      | 30   | 178                     | 12               | ..                      | 43           | 25                      | ..   |
| Te Kuiti              | 61                             | 25.2                               | 15.1   | 20.2            | +2.0                    | 30.6                         | 19   | 5.8      | 30   | 304                     | 13               | +211                    | 104          | 3                       | 172  |
| Wairere               | 156                            | 23.9                               | 14.3   | 19.1            | ..                      | 29.5                         | 19   | 4.1      | 30   | 191                     | 13               | +95                     | 53           | 3                       | ..   |
| Pureora Forest        | 549                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Mangakahu Valley      | 397                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Taumarunui            | 171                            | 25.3                               | 14.1   | 19.7            | +1.3                    | 31.0                         | 19   | 4.0      | 30   | 203                     | 16               | +107                    | 61           | 3                       | 173  |
| Tokirima              | 152                            | 25.2                               | 13.2   | 19.2            | ..                      | 31.4                         | 19   | 2.0      | 30   | 187                     | 12               | ..                      | 48           | 3                       | ..   |
| Omata                 | 61                             | 23.0                               | 16.5   | 19.8            | +2.1                    | 26.7                         | 19   | 10.5     | 30   | 254                     | 15               | +160                    | 62           | 24                      | ..   |
| New Plymouth          | 55                             | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| New Plymouth Airport  | 27                             | 22.8                               | 15.7   | 19.3            | +2.0                    | 25.9                         | 19   | 7.4      | 30   | 164                     | 16               | +67                     | 41           | 25                      | 216  |
| North Egmont          | 955                            | 17.9                               | 10.9   | 14.4            | ..                      | 23.7                         | 19   | 5.7      | 30   | 1081                    | 22               | ..                      | 204          | 25                      | ..   |
| Te Wera Forest        | 180                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Lower Retaruke        | 223                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Turangi               | 366                            | 23.3                               | 13.5   | 18.4            | +1.1                    | 29.5                         | 18   | 2.9      | 30   | 358                     | 13               | +237                    | 113          | 25                      | 169  |
| Chateau, Mt Ruapehu   | 1097                           | 18.0                               | 9.1    | 13.6            | ..                      | 24.2                         | 18   | 0.3      | 30   | 382                     | 15               | ..                      | 105          | 3                       | ..   |
| Hukanui               | 235                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Mt Bruce Res          | 305                            | 24.5                               | 13.6   | 19.1            | +3.4                    | 29.9                         | 20   | 2.5      | 30   | 153                     | 12               | +1                      | 43           | 25                      | ..   |
| Waingawa Masterton    | 114                            | 25.1                               | 13.8   | 19.5            | +2.2                    | 30.2                         | 20   | 4.0      | 30   | 74                      | 13               | +9                      | 25           | 25                      | 194  |
| Kopua                 | 311                            | 23.0                               | 13.8   | 18.4            | +1.9                    | 27.4                         | 17   | 3.7      | 30   | 183                     | 15               | +102                    | 79           | 8                       | ..   |
| Waipukurau            | 137                            | 25.6                               | 13.6   | 19.6            | +1.9                    | 30.8                         | 23   | 5.2      | 30   | 92                      | 12               | +34                     | 26           | 21                      | 158* |
| Dannevirke            | 207                            | 23.6                               | 14.0   | 18.8            | +1.7                    | 27.8                         | 17   | 2.9      | 30   | 139                     | 14               | +64                     | 36           | 23                      | 167  |
| Porangahau            | 8                              | 24.5                               | 14.4   | 19.5            | ..                      | 28.0                         | 21   | 6.3      | 30   | 60                      | 12               | ..                      | 15           | 21                      | ..   |
| Castlepoint           | 3                              | 23.2                               | 16.9   | 20.1            | +2.1                    | 28.0                         | 21   | 9.5      | 30   | 62                      | 15               | +6                      | 13           | 25                      | ..   |
| Ngaumu Forest         | 244                            | 24.2                               | 12.9   | 18.6            | +2.5                    | 28.2                         | 23   | 2.2      | 30   | 74                      | 11               | +15                     | 20           | 25                      | ..   |
| Tauherenikau          | 43                             | 24.8                               | 13.9   | 19.4            | +2.0                    | 29.3                         | 20   | 5.4      | 30   | 94                      | 13               | +13                     | 40           | 25                      | 201  |
| Waiorongomai          | 21                             | 23.6                               | 15.6   | 19.6            | +2.8                    | 28.5                         | 20   | 4.5      | 30   | 146                     | 12               | +43                     | 44           | 25                      | ..   |
| Cape Palliser         | 10                             | 23.6                               | 16.9   | 20.3            | +2.4                    | 28.5                         | 20   | 9.7      | 30   | 92                      | 11               | +23                     | 32           | 25                      | ..   |
| Ruatoria              | 61                             | 26.5                               | 15.1   | 20.8            | +1.8                    | 31.1                         | 10   | 9.3      | 31   | 87                      | 7                | -23                     | 80           | 25                      | ..   |
| Mangatu Forest        | 182                            | 27.0                               | 13.6   | 20.3            | +1.9                    | 31.0                         | 18   | 5.6      | 31   | 37                      | 7                | -46                     | 24           | 25                      | ..   |
| Manutuke Gisborne     | 9                              | 26.2                               | 14.6   | 20.4            | +1.9                    | 30.3                         | 13   | 6.8      | 31   | 20                      | 6                | -49                     | 11           | 2                       | ..   |
| Gisborne Airport      | 4                              | 27.2                               | 14.9   | 21.1            | +2.3                    | 31.1                         | 13   | 5.5      | 31   | 28                      | 7                | -42                     | 13           | 2                       | 243  |
| Onepoto, Waikaremoana | 643                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Wharerata Forest      | 439                            | 21.5                               | 14.1   | 17.8            | ..                      | 26.3                         | 13   | 8.7      | 30   | 38                      | 5                | ..                      | 13           | 25                      | ..   |
| Esk Forest            | 427                            | 23.3                               | 14.5   | 18.9            | +2.3                    | 28.4                         | 18   | 3.6      | 30   | 49                      | 10               | -73                     | 25           | 25                      | ..   |
| Ngamatea              | 885                            | 20.2                               | 10.1   | 15.2            | ..                      | 24.5                         | 5    | -1.0     | 30   | 131                     | 13               | ..                      | 37           | 5                       | ..   |
| Kaweka Forest         | 414                            | 23.9                               | 14.4   | 19.2            | +1.9                    | 28.8                         | 18   | 6.3      | 30   | 102                     | 13               | +11                     | 28           | 25                      | ..   |
| Napier Airport        | 2                              | 25.1                               | 16.1   | 20.6            | +2.1                    | 30.5                         | 13   | 7.5      | 30   | 32                      | 9                | -24                     | 13           | 25                      | ..   |
| Napier                | 2                              | 25.8                               | 16.3   | 21.1            | +1.9                    | 30.1                         | 10   | 8.2      | 30   | 33                      | 9                | -17                     | 16           | 25                      | 218  |
| Hastings              | 16                             | 25.9                               | 15.5   | 20.7            | ..                      | 30.5                         | 18   | 6.3      | 30   | 41                      | 6                | ..                      | 16           | 25                      | ..   |
| Whakatu               | 6                              | 24.8                               | 14.9   | 19.9            | ..                      | 29.8                         | 14   | 6.5      | 30   | 40                      | 8                | ..                      | 17           | 25                      | ..   |
| Gwawau Forest         | 335                            | 23.8                               | 12.3   | 18.1            | +2.0                    | 27.8                         | 18   | 3.1      | 30   | 90                      | 14               | +1                      | 29           | 21                      | ..   |
| Makaretu              | 335                            | 24.1                               | 13.2   | 18.7            | +1.8                    | 27.8                         | 17   | 3.2      | 30   | 105                     | 19               | +24                     | 18           | 21                      | ..   |
| Mohaka Forest         | 286                            | 24.8                               | 14.6   | 19.7            | +2.2                    | 30.0                         | 18   | 5.5      | 30   | 47                      | 7                | -51                     | 14           | 25                      | ..   |
| Frasertown, Wairoa    | 8                              | 26.3                               | 15.4   | 20.9            | +1.9                    | 29.8                         | 24   | 9.3      | 30   | 49                      | 12               | -45                     | 16           | 3                       | ..   |
| Wairoa                | 20                             | 25.8                               | 15.6   | 20.7            | +1.8                    | 30.0                         | 12   | 9.8      | 30   | 35                      | 8                | -59                     | 14           | 3                       | 216  |
| Kapiti Is             | 16                             | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Paraparaumu Airport   | 7                              | 22.7                               | 16.3   | 19.5            | +2.5                    | 27.6                         | 19   | 5.8      | 30   | 154                     | 13               | +79                     | 42           | 25                      | 219  |
| Flockhouse Bulls      | 9                              | 23.5                               | 15.1   | 19.3            | +2.1                    | 26.5                         | 16   | 4.6      | 30   | 116                     | 13               | +51                     | 32           | 3                       | ..   |
| Ohakea                | 48                             | 23.6                               | 15.6   | 19.6            | +1.9                    | 26.9                         | 16   | 6.1      | 30   | 109                     | 9                | +39                     | 29           | 3                       | 221  |
| Wharite Peak          | 914                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Kairanga Palmerston N | 15                             | 23.9                               | 14.8   | 19.4            | +2.3                    | 27.0                         | 3    | 3.3      | 30   | 137                     | 13               | +63                     | 62           | 3                       | ..   |
| Palmerston N Airport  | 45                             | 24.0                               | 15.3   | 19.7            | +2.4                    | 27.5                         | 20   | 4.3      | 30   | 112                     | 14               | +42                     | 27           | 3                       | ..   |
| Palmerston N D S I R  | 34                             | 23.8                               | 15.6   | 19.7            | +2.0                    | 27.3                         | 20   | 5.6      | 30   | 128                     | 15               | +51                     | 40           | 3                       | 181  |
| Foxton                | 9                              | 24.0                               | 15.3   | 19.7            | ..                      | 27.8                         | 19   | 4.2      | 30   | 111                     | 11               | ..                      | 44           | 3                       | 214  |
| Tiritea               | 100                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                      | ..           | ..                      | ..   |
| Waitarere Forest      | 3                              | 23.2                               | 15.6   | 19.4            | +2.1                    | 26.8                         | 16   | 3.0      | 30   | 133                     | 11               | +66                     | 43           | 3                       | ..   |
| Levin                 | 46                             | ..                                 | 15.6   | ..              | ..                      | ..                           | ..   | 6.9      | 30   | 147                     | 14               | +62                     | 46           | 3                       | 182  |
| Titahi Bay            | 31                             | 22.8                               | 16.7   | 19.8            | ..                      | 26.0                         | 6    | 5.0      | 30   | 133                     | 8                | ..                      | 51           | 25                      | ..   |
| Avalon, Lower Hutt    | 15                             | 23.2                               | 15.9   | 19.6            | +2.3                    | 26.9                         | 16   | 6.7      | 30   | 130                     | 10               | +27                     | 47           | 25                      | ..   |
| Highland Pk Wgtn      | 120                            | ..                                 | ..     | ..              | ..                      | ..                           | ..   | ..       | ..   | 166                     | 9                | ..                      | 53           | 25                      | ..   |
| Kelburn, Wellington   | 125                            | 22.2                               | 15.9   | 19.1            | +2.5                    | 25.7                         | 16   | 7.5      | 30   | 161                     | 10               | +75                     | 52           | 25                      | 242  |
| Somes Is              | 43                             | 21.8                               | 16.8   | 19.3            | +2.4                    | 25.5                         | 20   | 8.5      | 30   | 110                     | 9                | +40                     | 44           | 25                      | ..   |
| Gracefield Lower Hutt | 34                             | 22.8                               | 16.2   | 19.5            | +2.4                    | 26.8                         | 20   | 6.3      | 30   | 119                     | 7                | +37                     | 51           | 25                      | ..   |
| Wainuiomata           | 82                             | 22.9                               | 15.2   | 19.1            | +2.6                    | 26.5                         | 20   | 4.9      | 30   | 129                     | 9                | +41                     | 44           | 25                      | ..   |



CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1986—continued

| Station              | Height of Station Above M.S.L. | Air Temperature in Degrees Celsius |        |                 |                        |                              |      |          |      | Rainfall in Millimetres |                  |                        |              |      | Bright Sun—shine Hrs |
|----------------------|--------------------------------|------------------------------------|--------|-----------------|------------------------|------------------------------|------|----------|------|-------------------------|------------------|------------------------|--------------|------|----------------------|
|                      |                                | Means of                           |        | Mean of A and B | Difference From Normal | Absolute Maximum and Minimum |      |          |      | Total Fall              | No. of Rain Days | Difference From Normal | Maximum Fall |      |                      |
|                      |                                | A Max.                             | B Min. |                 |                        | Maxi—mum                     | Date | Mini—mum | Date |                         |                  |                        | Amount       | Date |                      |
|                      | Metres                         | °C                                 | °C     | °C              | °C                     | °C                           | °C   | °C       | mm   | mm                      | mm               | mm                     | Hrs          |      |                      |
| Lake Coleridge       | 364                            | 23.3                               | 12.3   | 17.8            | +2.1                   | 30.2                         | 20   | 2.9      | 29   | 43                      | 12               | -21                    | 12           | 28   | ..                   |
| Highbank Power Stn   | 336                            | ..                                 | 13.0   | ..              | ..                     | ..                           | ..   | 3.8      | 29   | 111                     | 12               | +22                    | 27           | 28   | 189                  |
| Hororata Substation  | 192                            | 24.3                               | 12.3   | 18.3            | +2.0                   | 30.1                         | 22   | 4.4      | 29   | 83                      | 13               | +6                     | 24           | 25   | 187                  |
| Winchmore            | 160                            | 23.0                               | 12.8   | 17.9            | +2.0                   | 28.2                         | 22   | 3.7      | 29   | 44                      | 11               | -20                    | 14           | 28   | ..                   |
| Peel Forest          | 274                            | 22.7                               | 11.2   | 17.0            | +2.0                   | 27.3                         | 21   | 1.6      | 29   | 145                     | 22               | +47                    | 36           | 12   | ..                   |
| Ashburton            | 101                            | 24.0                               | 13.0   | 18.5            | +1.4                   | 30.2                         | 3    | 4.3      | 29   | 41                      | 10               | -25                    | 11           | 28   | 177                  |
| Waipara              | 64                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Ashley Forest        | 107                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Rangiora             | 46                             | 23.9                               | 12.9   | 18.4            | +2.0                   | 32.0                         | 21   | 6.4      | 29   | 55                      | 8                | -10                    | 22           | 28   | ..                   |
| Darfield             | 195                            | 24.9                               | 13.2   | 19.1            | +2.3                   | 31.1                         | 22   | 4.3      | 29   | 66                      | 8                | -6                     | 23           | 28   | ..                   |
| Eyrewell Forest      | 158                            | 24.0                               | 12.6   | 18.3            | +1.9                   | 30.9                         | 22   | 2.4      | 30   | 65                      | 10               | -4                     | 18           | 25   | ..                   |
| Christchurch Airport | 30                             | 24.1                               | 13.4   | 18.8            | +2.0                   | 31.4                         | 22   | 6.8      | 29   | 41                      | 9                | -11                    | 14           | 25   | 223                  |
| Templeton            | 46                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Christchurch         | 7                              | 24.1                               | 13.9   | 19.0            | +2.0                   | 31.0                         | 22   | 7.2      | 29   | 30                      | 6                | -23                    | 13           | 25   | ..                   |
| Bromley Christchurch | 9                              | 23.3                               | 14.8   | 19.1            | +2.0                   | 31.5                         | 18   | 7.5      | 29   | 49                      | 10               | +4                     | 14           | 25   | ..                   |
| Mt Pleasant          | 137                            | 22.4                               | 14.9   | 18.7            | +2.3                   | 28.2                         | 18   | 6.5      | 29   | 50                      | 11               | -5                     | 20           | 28   | ..                   |
| Lincoln              | 11                             | 23.7                               | 13.1   | 18.4            | +1.8                   | 31.3                         | 21   | 7.0      | 29   | 35                      | 6                | -24                    | 15           | 28   | 205                  |
| Quail Island         | 75                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Akaroa               | 3                              | 24.8                               | 13.2   | 19.0            | +2.2                   | 31.5                         | 21   | 5.6      | 30   | 79                      | 9                | ..                     | 26           | 28   | ..                   |
| Lake Tekapo          | 683                            | 21.9                               | 10.5   | 16.2            | +0.8                   | 27.0                         | 6    | 1.6      | 29   | 32                      | 10               | -20                    | 13           | 12   | ..                   |
| Fairlie              | 304                            | 23.1                               | 10.8   | 17.0            | ..                     | 28.3                         | 3    | 1.4      | 30   | 27                      | 10               | ..                     | 6            | 11   | ..                   |
| Twizel               | 457                            | 23.3                               | 9.7    | 16.5            | +0.5                   | 27.2                         | 19   | 1.4      | 29   | 69                      | 14               | +0                     | 25           | 12   | ..                   |
| Twizel Substation    | 451                            | 24.2                               | 11.5   | 17.9            | ..                     | 28.1                         | 19   | 3.7      | 29   | 73                      | 14               | ..                     | 25           | 12   | ..                   |
| Ikawai               | 70                             | 22.7                               | 12.6   | 17.7            | +2.5                   | 26.5                         | 22   | 3.5      | 29   | 70                      | 9                | +14                    | 28           | 12   | ..                   |
| Geraldine            | 119                            | 23.5                               | 12.7   | 18.1            | +2.0                   | 29.3                         | 21   | 4.0      | 29   | 57                      | 12               | -23                    | 17           | 12   | ..                   |
| Orari Estate         | 81                             | 23.1                               | 12.3   | 17.7            | +1.8                   | 28.3                         | 21   | 3.8      | 29   | 64                      | 13               | -15                    | 23           | 12   | ..                   |
| Temuka               | 24                             | 22.5                               | ..     | ..              | ..                     | 29.5                         | 21   | ..       | ..   | 53                      | 9                | -13                    | 28           | 12   | ..                   |
| Timaru Airport       | 26                             | 22.6                               | 12.5   | 17.6            | +2.0                   | 28.3                         | 1    | 4.2      | 29   | 47                      | 9                | -11                    | 21           | 12   | ..                   |
| Adair                | 85                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Timaru 2             | 17                             | 21.6                               | 13.7   | 17.7            | ..                     | 28.5                         | 1    | 4.8      | 29   | 58                      | 12               | ..                     | 22           | 12   | 185                  |
| Waimate              | 61                             | 22.1                               | 13.0   | 17.6            | +1.4                   | 26.9                         | 27   | 5.9      | 30   | 80                      | 13               | +23                    | 36           | 12   | ..                   |
| Aviemore             | 241                            | ..                                 | 12.5   | ..              | ..                     | ..                           | ..   | 3.8      | 29   | 41                      | 13               | -11                    | 22           | 12   | ..                   |
| Kurou                | 207                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Oamaru Airport       | 30                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Knobs Flat           | 375                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Lake Hawea           | 350                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Wanaka               | 296                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Queensberry          | 277                            | 25.8                               | 13.3   | 19.6            | ..                     | 31.8                         | 19   | 3.8      | 29   | 14                      | 9                | ..                     | 5            | 12   | ..                   |
| Bendigo              | 200                            | 26.2                               | 13.3   | 19.8            | ..                     | 32.5                         | 19   | 3.7      | 29   | 30                      | 11               | ..                     | 13           | 10   | ..                   |
| Naseby               | 607                            | 22.3                               | 9.5    | 15.9            | ..                     | 27.6                         | 20   | 0.4      | 29   | 105                     | 11               | ..                     | 40           | 24   | ..                   |
| Windsor              | 88                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Oamaru               | 5                              | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Ranfurlly            | 427                            | 24.5                               | 11.2   | 17.9            | +3.3                   | 29.5                         | 20   | 1.2      | 29   | 34                      | ..               | -24                    | ..           | ..   | ..                   |
| Herbert Forest       | 61                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Palmerston           | 21                             | 20.9                               | 12.1   | 16.5            | +1.8                   | 25.9                         | 21   | 2.9      | 30   | 67                      | 11               | +15                    | 21           | 12   | 183                  |
| Cherry Farm Hospital | 6                              | 21.0                               | 11.8   | 16.4            | +1.9                   | 26.3                         | 21   | 5.1      | 29   | 80                      | 18               | +19                    | 18           | 25   | ..                   |
| Taiaroa Head         | 72                             | 18.5                               | 12.5   | 15.5            | +1.4                   | 25.7                         | 17   | 1.0      | 29   | 58                      | 18               | -1                     | 18           | 25   | ..                   |
| Berwick Forest       | 18                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Dunedin Airport      | 1                              | 22.1                               | 10.9   | 16.5            | +1.8                   | 27.2                         | 21   | 1.0      | 30   | 58                      | 15               | -12                    | 17           | 21   | 175                  |
| Musselburgh Dunedin  | 2                              | 19.9                               | 13.3   | 16.6            | +1.5                   | 27.8                         | 17   | 6.9      | 29   | 41                      | 16               | -30                    | 14           | 25   | 184                  |
| Te Anau              | 215                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| West Arm, Manapouri  | 232                            | 20.0                               | 11.4   | 15.7            | +1.8                   | 29.0                         | 20   | 3.0      | 29   | 351                     | 22               | -13                    | 95           | 1    | ..                   |
| Borland Burn         | 183                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Queenstown           | 329                            | 23.7                               | 12.4   | 18.1            | +1.9                   | 30.5                         | 19   | 3.3      | 29   | 39                      | 14               | -30                    | 13           | 1    | 196                  |
| Queenstown Airport   | 349                            | 23.1                               | 11.4   | 17.3            | +2.0                   | 29.3                         | 19   | 3.3      | 29   | 31                      | 13               | -27                    | 9            | 25   | ..                   |
| Gibbston             | 354                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Cromwell Sub Stn     | 213                            | 26.7                               | 14.1   | 20.4            | ..                     | 32.3                         | 19   | 4.8      | 29   | 9                       | 5                | -26                    | 4            | 12   | ..                   |
| Cromwell             | 213                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Northburn            | 210                            | 26.3                               | 13.7   | 20.0            | ..                     | 32.0                         | 19   | 4.9      | 29   | 11                      | 11               | ..                     | 5            | 12   | ..                   |
| Cromwell 2           | 213                            | 26.6                               | 13.4   | 20.0            | ..                     | 32.4                         | 19   | 4.0      | 29   | 12                      | 10               | ..                     | 5            | 12   | 253                  |
| Lauder               | 370                            | 24.8                               | 11.7   | 18.3            | ..                     | 29.0                         | 19   | 1.0      | 29   | 46                      | 11               | ..                     | 16           | 14   | ..                   |
| Clyde Dam            | 160                            | 25.7                               | 13.8   | 19.8            | ..                     | 30.7                         | 16   | 4.9      | 29   | 24                      | 9                | ..                     | 7            | 25   | ..                   |
| Ophir                | 305                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Clyde(Dsir)          | 171                            | 26.5                               | 13.1   | 19.8            | ..                     | 31.0                         | 16   | 3.1      | 29   | 22                      | 11               | ..                     | 8            | 12   | ..                   |
| Alexandra            | 141                            | 27.6                               | 13.1   | 20.4            | ..                     | 33.1                         | 19   | 4.6      | 29   | 27                      | 7                | ..                     | 9            | 10   | 240                  |
| Roxburgh Power Stn   | 110                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Ettrick No 1         | 83                             | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Ettrick No 2         | 91                             | 24.9                               | 11.6   | 18.3            | ..                     | 30.4                         | 16   | 3.0      | 5    | 55                      | 13               | ..                     | 14           | 9    | ..                   |
| Deep Stream          | 396                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..       | ..   | ..                      | ..               | ..                     | ..           | ..   | ..                   |
| Beaumont             | 46                             | 23.4                               | 11.4   | 17.4            | ..                     | 30.0                         | 3    | 3.6      | 30   | 46                      | 17               | -38                    | 10           | 9    | ..                   |
| Mahinerangi Dam      | 396                            | 19.6                               | 10.0   | 14.8            | +1.8                   | 25.8                         | 20   | 1.8      | 29   | 56                      | 17               | -33                    | 12           | 25   | ..                   |
| Tapanui              | 226                            | 22.0                               | 11.0   | 16.5            | +1.8                   | 28.3                         | 16   | 4.4      | 30   | 33                      | 15               | -56                    | 6            | 9    | ..                   |
| Taiari Mouth         | 15                             | 19.4                               | 11.7   | 15.6            | +1.8                   | 26.7                         | 17   | 5.2      | 30   | 31                      | 14               | -39                    | 8            | 25   | ..                   |
| Tuatapere            | 27                             | 21.2                               | 11.9   | 16.6            | ..                     | 26.9                         | 16   | 4.5      | 5    | 129                     | 22               | ..                     | 52           | 1    | ..                   |
| Otautau              | 55                             | 21.0                               | 11.4   | 16.2            | +2.2                   | 28.6                         | 16   | 4.4      | 5    | 99                      | 20               | +8                     | 27           | 1    | 130                  |



CLIMATOLOGICAL TABLE—Summary of the Records of Temperature, Rainfall, and Sunshine for January 1986—continued

| Station                      | Height of Station Above M.S.L. | Air Temperature in Degrees Celsius |        |                 |                        |                              |      |         |      | Rainfall in Millimetres |                  |                        |              |      | Bright Sunshine |
|------------------------------|--------------------------------|------------------------------------|--------|-----------------|------------------------|------------------------------|------|---------|------|-------------------------|------------------|------------------------|--------------|------|-----------------|
|                              |                                | Means of                           |        | Mean of A and B | Difference From Normal | Absolute Maximum and Minimum |      |         |      | Total Fall              | No. of Rain Days | Difference From Normal | Maximum Fall |      |                 |
|                              |                                | A Max.                             | B Min. |                 |                        | Maximum                      | Date | Minimum | Date |                         |                  |                        | Amount       | Date |                 |
|                              | Metres                         | °C                                 | °C     | °C              | °C                     | °C                           | °C   | °C      | mm   | mm                      | mm               | mm                     | Hrs          |      |                 |
| Ranfurlly 09/1985            | 427                            | ..                                 | ..     | ..              | -0.5                   | 23.2                         | 31   | -4.5    | 11   | 48                      | 11               | +4                     | 15           | 23   | 213             |
| Ranfurlly 10/1985            | 427                            | 15.9                               | 2.3    | 9.1             | -0.5                   | 23.2                         | 31   | -4.5    | 11   | 48                      | 11               | +4                     | 15           | 23   | 213             |
| Ranfurlly 11/1985            | 427                            | ..                                 | ..     | ..              | ..                     | ..                           | ..   | ..      | ..   | ..                      | ..               | ..                     | ..           | ..   | ..              |
| Ranfurlly 12/1985            | 427                            | 20.5                               | 7.6    | 14.1            | +0.5                   | 26.6                         | 14   | 2.4     | 4    | 64                      | 9                | +12                    | 18           | 1    | 170             |
| Palmerston 12/1985           | 21                             | 18.9                               | 10.1   | 14.5            | +1.1                   | 29.4                         | 21   | 2.8     | 6    | 66                      | 15               | +6                     | 27           | 22   | 122             |
| Taiaroa Head 11/1985         | 72                             | 13.8                               | 8.3    | 11.1            | -0.3                   | 22.3                         | 17   | 1.7     | 4    | 58                      | 19               | -6                     | 8            | 18   | ..              |
| Musselburgh Dunedin 12/1985  | 2                              | 18.0                               | 11.6   | 14.8            | +0.8                   | 27.2                         | 21   | 6.5     | 5    | 85                      | 18               | +12                    | 20           | 22   | 139             |
| Te Anau 11/1985              | 215                            | ..                                 | 7.0    | ..              | ..                     | ..                           | ..   | -0.6    | 13   | 81                      | 14               | -17                    | 34           | 30   | ..              |
| Gibbston 12/1985             | 354                            | 22.1                               | 10.7   | 16.4            | ..                     | 26.5                         | 21   | 4.0     | 5    | 54                      | 13               | ..                     | 14           | 1    | ..              |
| Cromwell 2 09/1985           | 213                            | 15.9                               | 3.2    | 9.6             | ..                     | 19.8                         | 21   | -2.1    | 11   | 26                      | 6                | ..                     | 8            | 3    | 202             |
| Cromwell 2 12/1985           | 213                            | 23.0                               | 11.3   | 17.2            | ..                     | 27.9                         | 17   | 5.0     | 4    | 43                      | 13               | ..                     | 11           | 23   | 203             |
| Alexandra 12/1985            | 141                            | 23.7                               | 10.9   | 17.3            | ..                     | 30.6                         | 14   | 3.0     | 4    | 67                      | 12               | ..                     | 29           | 17   | 183             |
| Roxburgh Power Stn 12/1985   | 110                            | 22.0                               | 10.7   | 16.4            | +1.0                   | 28.1                         | 21   | 4.6     | 6    | 41                      | 12               | -15                    | 9            | 1    | ..              |
| Winton 12/1985               | 44                             | 20.1                               | 9.2    | 14.7            | +1.2                   | 27.2                         | 14   | 1.5     | 3    | 45                      | 11               | -25                    | 13           | 26   | 170             |
| Gore 11/1985                 | 123                            | 16.4                               | 7.7    | 12.1            | +0.5                   | 24.8                         | 14   | 2.2     | 6    | 64                      | 19               | -12                    | 14           | 3    | 184             |
| Gore 12/1985                 | 123                            | 19.4                               | 9.8    | 14.6            | +1.2                   | 27.0                         | 21   | 3.2     | 3    | 76                      | 20               | -7                     | 21           | 23   | 196             |
| Finegand Balclutha 12/1985   | 6                              | 19.1                               | 9.9    | 14.5            | +0.8                   | 27.5                         | 14   | 1.4     | 6    | 42                      | 16               | -22                    | 16           | 23   | 134             |
| Nugget Point 12/1985         | 129                            | 16.7                               | 10.0   | 13.4            | +1.1                   | 24.7                         | 20   | 5.7     | 5    | 54                      | 19               | -22                    | 15           | 23   | ..              |
| Totokoitu, Rarotonga 10/1985 | 9                              | 25.4                               | 20.6   | 23.0            | +0.2                   | 29.2                         | 27   | 16.9    | 9    | 65                      | 11               | ..                     | 32           | 6    | ..              |
| Totokoitu, Rarotonga 11/1985 | 9                              | 26.6                               | 21.7   | 24.2            | +0.5                   | 29.0                         | 29   | 17.0    | 20   | 236                     | 18               | ..                     | 90           | 15   | ..              |

The "normal" refers to the present site of the instruments. Standard period for normals is 1951-1980. No normals are available for stations with only short records.

\*Indicates that the sunshine recorder is not located at the station but is in the near vicinity.

A rainday is a day with rainfall equal to or greater than 0.1 mm.

Where the extremes of temperature and rainfall have occurred more than once during the month, the date of the first occurrence is given.

## THE WEATHER IN NEW ZEALAND IN JANUARY 1986

*General*—January was much warmer than average throughout New Zealand.

North-easterlies prevailed over the North Island with a much greater frequency than usual, and north-westerlies were predominant over the South Island, with their second highest frequency since 1956.

Flooding occurred in some North Island regions during the period from the 4th to the 6th. The worst affected places were:

Pawarenga (Northland) where people were evacuated from all of the 18 houses there;

Ngongotaha (near Rotorua) where water had surrounded 30 properties and 25 people were evacuated;

Tarawera where 5 families had to leave their homes, and 3 major roads were blocked in the area due to slips;

The Henderson Valley (Northwest Auckland) where residents fled from their houses due to flood waters up to 2 or 3 metres high (due to the Opanuku Stream which had burst its banks). Twelve people were rescued by the fire brigade.

On the 25th floods also occurred in Nelson City. Almost 150 mm of rain fell in the 48 hours to 9 a.m. on the 27th, which has a return period of nearly 50 years. Major damage to some homes, bridges, and the sewage system resulted, together with severe slips, causing roads out of the city to be blocked. A state of emergency was declared at 2 p.m. on the 25th. Approximately 150 people in the Brightwater and Matai regions evacuated their houses.

During this time high seas affected Northland and the Bay of Plenty. A yacht capsized just off the coast near Leigh, and a woman was swept away and assumed drowned. Winds in the area were estimated to be gusting up to 110 kmph from the north-east, with waves up to 11 metres.

Mean sea level pressures were 1 to 2 hPa above average over the North Island, and near average over the South Island.

Farmers reported excellent pasture growth this month. Most stock were in good condition, although a large number of cases of flystrike affected cattle in southern and eastern regions of the North Island.

*Rainfall*—Rainfall was well above normal throughout the North Island, apart from Gisborne, Hawkes Bay and the Wairarapa. Rainfall totals for the Gisborne region ranged between 45 and 60 percent of normal.

Record January rainfalls resulted at:

|                  |        |                         |
|------------------|--------|-------------------------|
| Rotorua Airport  | 359 mm | (399 percent of normal) |
| Kinleith         | 275 mm | (257 percent of normal) |
| Auckland City    | 225 mm | (381 percent of normal) |
| Hamilton Airport | 219 mm | (300 percent of normal) |

Over the South Island rainfall was generally near average apart from Buller, Marlborough and Nelson where it ranged from 150 to over 300 percent of normal. Nelson's high rainfall of 227 mm (329 percent of normal) was also a record.

Some high 24 and 48 hour rainfalls this month were:

| Station               | Period             | Date | Rainfall (mm) |
|-----------------------|--------------------|------|---------------|
| Milford Sound         | 48 hours to 9 a.m. | 1st  | 545           |
| Pawarenga (Northland) | 24 hours to 9 a.m. | 4th  | 255           |
| Rotorua Airport       | 24 hours to 9 a.m. | 5th  | 131           |

*Temperatures*—Nationwide January was one of the warmest months ever. Mean temperatures were 2°C above the long term averages, making it the second warmest month since records began in the 1860's. The mean daily temperature was 2.5°C above normal in the King Country, Wellington, South Canterbury and central Otago regions.

Some of the greatest departures from normal this month were:

| Station              | Start of record | Mean Daily Temperature°C | and Rank                   |
|----------------------|-----------------|--------------------------|----------------------------|
| Onepoto              | 1936            | 19.1°                    | highest on record          |
| Gisborne Airport     | 1938            | 21.1°                    | highest on record          |
| New Plymouth         | 1944            | 19.4°                    | highest on record          |
| Ohakea               | 1940            | 19.7°                    | 2nd highest, equal to 1975 |
| Palmerston North     | 1962            | 19.6°                    | highest on record          |
| Paraparaumu Airport  | 1953            | 19.5°                    | highest on record          |
| Kelburn (Wellington) | 1928            | 19.1°                    | 2nd highest                |
| Waingawa             | 1906            | 19.6°                    | 3rd highest                |
| Blenheim             | 1941            | 19.7°                    | 2nd highest                |
| Kaikoura             | 1964            | 18.2°                    | highest on record          |
| Timaru Airport       | 1962            | 17.7°                    | highest on record          |
| Christchurch Airport | 1954            | 18.8°                    | 2nd highest                |
| Oamaru Airport       | 1968            | 18.2°                    | highest on record          |
| Alexandra            | 1929            | 19.8°                    | 2nd highest                |

At Gisborne Airport the mean daily maximum temperature averaged 27.4°C which is the second highest since records began in 1938.

*Sunshine*—Throughout the whole of the country hours of sunshine ranged between 85 and 105 percent of normal. The region with the least amount of sunshine was in Southern Hawke's Bay.

J. S. HICKMAN, Director.



THESE MAPS ARE MEAN SEA LEVEL ANALYSES  
FOR 0000 HOURS. THEY WERE PREPARED BY  
NEW ZEALAND METEOROLOGICAL SERVICE  
MINISTRY OF TRANSPORT  
P.O. BOX 722  
WELLINGTON







