



REGULATORY DISCLOSURE

Gas transmission services: Peak flow disclosure

Year ended 30 September 2021



Introduction

First Gas Limited (Firstgas) operates 2,500 kilometres of gas transmission pipelines and more than 4,900 kilometres of gas distribution pipelines across the North Island. These gas infrastructure assets transport natural gas from Taranaki to major industrial gas users, electricity generators, businesses and homes, and transport around 20 percent of New Zealand's primary energy supply. Our distribution network services approximately 66,000 consumers across the regions of Northland, Waikato, Central Plateau, Bay of Plenty, Gisborne, and Kapiti Coast.

Firstgas is part of the wider Firstgas Group. The Firstgas Group owns energy infrastructure assets across New Zealand through our affiliate Gas Services NZ Limited (GSNZ), a separate business with common shareholders that owns the Ahuroa gas storage facility and Rockgas.

The Ahuroa gas storage facility (trading as Flexgas) is New Zealand's only underground gas storage facility. Rockgas has over 80 years' experience providing LPG to over 100,000 customers throughout New Zealand. Rockgas is New Zealand's largest LPG retail business and supplies its customers with LPG from both domestic and imported services.

Firstgas is committed to helping Aotearoa achieve its climate change goal of zero carbon emissions by 2050. Our gas transmission and distribution networks are ideally placed to support the development, transfer, and use of emerging fuels such as hydrogen or biogas. For more information, visit our website:

www.gasischanging.co.nz.

Compliance statement

This document is a regulatory disclosure prepared pursuant to section 2.5.2 of the *Gas Transmission Information Disclosure Determination 2012* consolidating all amendments as of 24 March 2015 issued by the Commerce Commission. The regulatory disclosure covers Firstgas' gas transmission business (both the Maui and Non-Maui transmission systems) for the 12-month period ending 30 September 2021.

This regulatory disclosure was prepared on 22 November 2021.

Further information

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Disclaimer

For presentation purposes, some numbers in the regulatory disclosure have been rounded. This may cause small discrepancies or rounding inconsistencies when aggregating some of the information presented in the document. These discrepancies do not affect the overall calculations which are based on the more detailed information.

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1. Peak flow information

1.1 North System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Rotowaro Net Flow North (Total Rotowaro Flow – CEN Flow)		13-Aug-21	351,275		
	Bruce McLaren	13-Aug-21	7,511	02-Jul-21	7,656
	Drury	13-Aug-21	5,392	13-Aug-21	5,392
	Flat Bush	13-Aug-21	7,364	02-Jul-21	8,582
	Glenbrook	13-Aug-21	24,411	16-Jul-21	32,929
	Harrisville 2	13-Aug-21	8,275	13-Aug-21	8,275
	Henderson	13-Aug-21	18,217	02-Jul-21	19,918
	Hunua	13-Aug-21	5,392	16-Oct-20	7,350
	Kauri	13-Aug-21	8,467	10-Sep-21	11,108
	Marsden Point	13-Aug-21	25,021	09-Oct-20	49,965
	Maungaturoto	13-Aug-21	8,507	17-Sep-21	10,372
	Papakura	13-Aug-21	37,013	11-Jun-21	68,564
	Tuakau	13-Aug-21	6,977	23-Oct-20	15,184
	Waikumete	13-Aug-21	30,311	02-Jul-21	30,738
	Waitoki	13-Aug-21	4,988	02-Jul-21	5,512
	Warkworth	13-Aug-21	5,957	16-Jul-21	7,463
	Westfield	13-Aug-21	139,184	16-Oct-20	151,885
	Whangarei	13-Aug-21	2,834	16-Jul-21	2,916

Note:

1. The North System peak flow period was identified as the period ending 13 August 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the North System's Peak Flow period have been reported.

1.2 Central North System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Rotowaro Net Flow South (Total Rotowaro Flow – North Flow)		13-Aug-21	112,892		
	Cambridge	13-Aug-21	9,116	17-Sep-21	10,096
	Hamilton Te Kowhai	13-Aug-21	12,347	09-Jul-21	14,223
	Hamilton Temple View	13-Aug-21	22,608	13-Aug-21	22,608
	Horotiu	13-Aug-21	6,553	28-May-21	7,009
	Kiwitahi (Degussa)	13-Aug-21	4,671	14-May-21	4,965
	Morrinsville DF	13-Aug-21	2,007	18-Jun-21	5,414
	Tatuanui DF	13-Aug-21	6,084	23-Oct-20	7,062
	Te Rapa Cogen	13-Aug-21	71,539	09-Oct-20	72,764
	Waitoa	13-Aug-21	8,256	13-Aug-21	8,256

Note:

1. The Central North System peak flow period was identified as the period ending 13 August 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Central North System's Peak Flow period have been reported.
4. The throughput for Te Rapa Cogen was included when calculating the timing of the System Peak Flow period.

1.3 Central South System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Kapuni		16-Jul-21	83,335		
	New Plymouth	16-Jul-21	16,547	02-Jul-21	17,323
	Pokuru Offtake	16-Jul-21	49,608	16-Jul-21	49,608
	Waitara	16-Jul-21	2,149	02-Jul-21	2,354

Note:

1. The Central South System Peak flow period was identified as the period ending 16 July 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Central South System's Peak Flow period have been reported.
4. The throughput for Pokuru Offtake was included when calculating the timing of the System Peak Flow period.
5. The throughput for Eltham has been excluded in 2021 as its System Peak flow was less than 2,000 Gigajoules during the peak flow period.

1.4 Bay of Plenty System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Pokuru		09-Oct-20	38,584		
Pokuru 2		09-Oct-20	139,340		
	Edgecumbe DF	09-Oct-20	23,093	16-Oct-20	23,357
	Gisborne	09-Oct-20	3,021	19-Mar-21	10,788
	Kawerau (Tasman)	09-Oct-20	8,234	13-Aug-21	9,537
	Kinleith (CHH Mill)	09-Oct-20	52,951	20-Nov-20	58,089
	Lichfield 2	09-Oct-20	20,066	16-Oct-20	20,306
	Lichfield DF	09-Oct-20	9,090	23-Apr-21	10,255
	Mt Maunganui	09-Oct-20	9,177	09-Jul-21	11,254
	Pyes Pa	09-Oct-20	2,421	16-Jul-21	2,817
	Reporoa	09-Oct-20	10,529	16-Oct-20	10,562
	Rotorua	09-Oct-20	4,813	09-Jul-21	8,556
	Tauranga	09-Oct-20	2,420	16-Jul-21	4,344
	Tirau DF	09-Oct-20	6,955	28-May-21	7,573
	Whakatane	09-Oct-20	13,044	21-May-21	17,570

Note:

1. The Bay of Plenty System Peak flow period was identified as the period ending 09 October 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Bay of Plenty System's Peak Flow period have been reported.
4. The throughput for Kawerau (Caxton) has been excluded in 2021 as its System Peak flow was less than 2,000 Gigajoules during the peak flow period.

1.5 South System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Kapuni (South)		17-Sep-21	201,714		
Rimu Production Station		17-Sep-21	0		
	Belmont	17-Sep-21	27,702	02-Jul-21	31,737
	Feilding	17-Sep-21	4,255	28-May-21	4,859
	Hastings	17-Sep-21	31,862	16-Apr-21	43,684
	Hawera	17-Sep-21	5,232	25-Dec-20	5,858
	Levin	17-Sep-21	4,505	13-Aug-21	4,990
	Longburn	17-Sep-21	3,680	16-Oct-20	4,491
	Marton	17-Sep-21	2,996	28-May-21	3,381
	Pahiatua DF	17-Sep-21	15,368	16-Oct-20	16,578
	Palmerston North	17-Sep-21	18,653	02-Jul-21	20,275
	Paraparaumu	17-Sep-21	2,081	02-Jul-21	2,474
	Pauatahanui	17-Sep-21	2,294	02-Jul-21	2,478
	Waikanae	17-Sep-21	2,116	02-Jul-21	2,466
	Waitangirua (Hutt Valley)	17-Sep-21	6,766	02-Jul-21	7,542
	Wanganui	17-Sep-21	19,468	17-Sep-21	19,468
	Wellington (Tawa)	17-Sep-21	51,549	02-Jul-21	55,746

Note:

1. The South System Peak flow period was identified as the period ending 17 September 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the South System's Peak Flow period have been reported.

1.6 Frankley Road System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Kupe Production Station		11-Jun-21	288,112		
Sidewinder		11-Jun-21	23		
Cheal Mixing Station		11-Jun-21	-		
Kaimiro		11-Jun-21	7,759		
KGTP		11-Jun-21	2,771		
Frankley Road		11-Jun-21	333,370		
Stratford 3 Receipt		11-Jun-21	11,705		
	Taranaki Combined Cycle	11-Jun-21	239,897	30-Apr-2021	242,857
	Stratford 3	11-Jun-21	37,400	01-Jan-2021	190,496
	AUP	11-Jun-21	103,889	11-Jun-2021	103,889

Note:

1. The Frankley Road System Peak flow period was identified as the period ending 11 June 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Frankley Road System's Peak Flow period have been reported.
4. The throughput for Taranaki Combined Cycle, Stratford 2 and Stratford 3 were included when calculating the timing of the System Peak Flow period.
5. The throughput for Stratford 2 has been excluded in 2021 as its System Peak flow was less than 2,000 Gigajoules during the peak flow period.

1.7 Maui System

INTAKE POINTS	OFFTAKE POINTS >2000 GIGAJOULES DURING PEAK FLOW PERIOD	SYSTEM PEAK FLOW		OFFTAKE PEAK FLOW	
		Period Ending	Throughput (GJ)	Period Ending	Throughput (GJ)
Oaonui		09-Oct-20	360,672		
Tikorangi 1		09-Oct-20	41,329		
Tikorangi 2		09-Oct-20	208,918		
Tikorangi 3		09-Oct-20	441,380		
Kowhai		09-Oct-20	21,216		
Ngatimaru Road		09-Oct-20	592,886		
Turangi		09-Oct-20	259,653		
Frankley Road		09-Oct-20	170,924		
	Bertrand Road	09-Oct-20	474,739	13-Nov-20	478,867
	Frankley Road	09-Oct-20	2,192	11-Jun-21	333,370
	Huntly Power Station	09-Oct-20	384,464	11-Jun-21	463,904
	Ngatimaru Road	09-Oct-20	550,680	19-Mar-21	724,424
	Pirongia	09-Oct-20	10,419	16-Apr-21	16,555
	Pokuru	09-Oct-20	139,340	17-Sep-21	168,796
	Rotowaro	09-Oct-20	468,644	09-Oct-20	468,644
	Te Kuiti South	09-Oct-20	2,766	28-May-21	4,251

Note:

1. The Maui System Peak flow period was identified as the period ending 09 October 2021.
2. Consistent with the Asset Management Plan, the duration of the peak flow period is 5 days (Monday to Friday inclusive). This is for both the System Peak Flow period and the Offtake Peak Flow period.
3. Offtake points that had a total throughput of 2,000 Gigajoules or more during the Maui System's Peak Flow period have been reported.

2. Peak hourly information

The throughput of gas (in Gigajoules/hour) during each system's Peak 5-day flow period is shown in the following tables. This is reported for all offtake points that had a total throughput of 2,000 Gigajoules or more during their sub-system peak flow period.

2.1 North System

Harrisville 2

Hour	9-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	75	97	60	42	70
1	80	103	67	34	54
2	86	96	58	53	64
3	86	122	67	88	56
4	97	125	87	86	67
5	106	125	77	83	70
6	115	106	83	100	84
7	115	103	40	92	74
8	88	86	55	69	61
9	81	59	54	43	66
10	74	74	58	54	72
11	81	77	71	64	79
12	82	78	77	78	80
13	89	69	74	76	87
14	75	65	70	74	87
15	67	71	68	59	79
16	76	52	72	60	70
17	83	70	59	64	59
18	55	41	32	31	35
19	71	43	37	39	36
20	76	47	41	37	35
21	88	45	35	35	48
22	86	41	39	39	40
23	86	67	33	52	55

Drury

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	61	72	68	69	62
1	67	77	66	65	58
2	61	69	65	67	54
3	64	75	67	65	51
4	63	75	62	67	50
5	64	74	52	64	59
6	58	73	57	60	49
7	56	63	51	51	36
8	48	47	44	38	36
9	36	34	28	32	32
10	28	30	32	32	36
11	35	37	36	33	36
12	33	36	34	33	35
13	33	31	27	33	34
14	35	30	23	30	33
15	35	28	22	36	33
16	30	29	29	35	36
17	30	23	22	23	22
18	35	31	21	22	19
19	37	28	27	24	20
20	67	32	25	24	24
21	73	65	39	31	35
22	70	63	60	39	56
23	70	71	66	48	61

Hunua

Hour	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021	14-Aug-2021
0	17	56	28	29	30
1	16	55	28	29	26
2	20	55	28	31	25
3	22	55	29	27	31
4	19	54	28	29	27
5	19	57	30	30	28
6	27	61	31	30	32
7	20	58	61	32	58
8	35	60	65	36	62
9	52	62	59	34	63
10	56	60	65	54	62
11	52	58	49	57	61
12	54	59	31	59	62
13	49	61	34	58	59
14	56	60	31	64	58
15	61	59	30	62	55
16	60	54	57	63	30
17	55	58	58	61	28
18	58	59	62	61	31
19	56	61	61	58	32
20	52	51	67	61	25
21	55	30	50	51	22
22	55	25	31	28	29
23	53	25	31	29	26

Kauri

Hour	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021	14-Aug-2021
0	55	24	26	69	68
1	55	20	34	70	83
2	61	20	66	62	109
3	60	36	65	63	107
4	61	94	62	64	105
5	61	111	63	65	108
6	62	119	59	62	105
7	66	113	66	66	107
8	62	113	64	71	107
9	40	115	62	72	73
10	21	111	64	73	69
11	21	105	57	72	72
12	22	112	53	67	64
13	48	110	65	78	61
14	66	105	66	72	64
15	69	108	47	71	61
16	64	92	12	40	63
17	67	113	25	43	66
18	66	109	14	66	66
19	58	107	17	75	104
20	66	103	37	96	108
21	63	107	48	119	112
22	56	99	35	103	110
23	54	34	44	73	110

Flat Bush

Hour	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021	14-Aug-2021
0	21	43	44	38	46
1	22	38	40	38	36
2	21	43	44	35	35
3	26	50	39	33	38
4	44	53	60	52	42
5	51	57	61	62	46
6	70	71	77	72	57
7	76	81	83	86	63
8	86	86	82	88	69
9	79	78	81	91	69
10	80	82	83	87	65
11	81	82	87	87	66
12	83	80	87	86	60
13	89	82	83	78	61
14	81	74	78	68	58
15	77	78	76	68	61
16	74	79	74	70	55
17	65	65	66	58	50
18	67	66	72	54	47
19	71	74	77	56	43
20	63	74	75	51	47
21	49	57	53	50	45
22	34	43	41	55	33
23	37	43	36	49	31

Bruce McLaren

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	29	42	42	41	34
1	30	41	36	37	31
2	34	44	42	39	33
3	39	43	40	40	35
4	36	44	42	39	36
5	43	55	53	52	49
6	61	66	64	65	59
7	80	87	86	84	75
8	85	94	86	85	81
9	81	88	84	80	80
10	83	81	79	76	78
11	81	83	79	78	79
12	80	81	76	73	78
13	75	79	79	73	75
14	71	69	75	68	67
15	65	61	65	63	58
16	67	66	64	61	55
17	74	68	65	63	57
18	81	74	71	67	67
19	81	78	75	72	67
20	72	71	71	66	60
21	66	64	63	59	56
22	61	56	55	50	48
23	48	47	43	42	40

Marsden Point

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	205	215	220	205	218
1	208	213	214	205	218
2	207	211	211	207	210
3	207	210	211	212	208
4	207	206	212	212	208
5	210	207	210	211	208
6	208	206	209	212	208
7	208	206	210	209	206
8	206	203	208	204	204
9	206	199	205	202	202
10	205	198	206	203	200
11	201	198	205	201	202
12	200	196	205	202	203
13	200	196	208	204	202
14	205	198	208	204	202
15	207	198	207	208	211
16	209	198	211	209	214
17	210	201	209	210	212
18	214	211	209	210	212
19	215	227	207	212	211
20	215	226	204	215	212
21	215	225	204	216	211
22	217	227	204	217	212
23	216	226	205	219	212

Waitoki

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	9	33	30	32	18
1	7	32	30	10	7
2	7	34	29	6	6
3	6	33	17	7	6
4	6	17	7	6	7
5	19	20	18	18	19
6	37	49	36	33	67
7	56	98	62	59	79
8	59	81	61	61	60
9	52	81	41	51	58
10	41	74	34	44	43
11	45	84	29	42	35
12	33	71	32	32	34
13	29	61	28	39	33
14	33	63	29	37	30
15	43	51	22	23	26
16	50	43	31	30	31
17	67	59	44	42	44
18	87	77	63	60	59
19	88	79	63	65	57
20	69	73	68	73	49
21	51	59	66	62	40
22	47	28	51	46	27
23	39	18	39	33	17

Glenbrook

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	160	127	113	128	157
1	135	125	116	158	140
2	124	180	125	186	149
3	146	203	126	225	148
4	152	168	112	144	146
5	144	272	112	215	194
6	140	268	248	318	238
7	195	199	338	229	258
8	263	196	286	197	255
9	223	218	288	214	247
10	134	253	250	143	225
11	153	268	270	133	229
12	185	198	227	201	215
13	162	178	222	218	220
14	149	121	216	240	212
15	137	120	324	194	163
16	175	138	291	207	101
17	248	236	304	227	121
18	249	237	353	270	206
19	239	228	272	265	199
20	248	236	300	252	194
21	254	192	232	264	191
22	232	190	231	281	187
23	212	172	186	192	192

Westfield

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	620	795	773	763	822
1	577	774	757	742	774
2	564	779	728	702	811
3	630	801	752	684	681
4	721	785	840	763	715
5	785	982	983	894	864
6	1,234	1,394	1,369	1,239	1,297
7	1,575	1,802	1,679	1,576	1,519
8	1,534	1,580	1,573	1,491	1,548
9	1,456	1,435	1,340	1,362	1,329
10	1,426	1,488	1,289	1,255	1,296
11	1,327	1,359	1,265	1,154	1,291
12	1,255	1,316	1,246	1,168	1,248
13	1,277	1,175	1,169	1,175	1,210
14	1,205	1,143	1,081	1,234	1,175
15	1,134	1,110	1,049	1,194	1,002
16	1,241	1,276	1,130	1,237	1,040
17	1,455	1,426	1,339	1,294	1,208
18	1,668	1,576	1,480	1,441	1,328
19	1,692	1,632	1,442	1,447	1,369
20	1,465	1,564	1,362	1,417	1,227
21	1,348	1,299	1,226	1,222	1,021
22	1,062	1,064	1,100	984	867
23	873	995	856	848	755

Warkworth

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	10	34	13	11	14
1	12	39	19	13	12
2	47	74	48	15	16
3	53	92	76	40	35
4	71	100	96	89	61
5	84	101	89	80	55
6	89	97	97	83	75
7	55	90	73	63	47
8	63	74	65	63	56
9	66	64	61	65	63
10	68	74	74	73	68
11	67	74	73	72	67
12	70	73	73	72	65
13	70	72	72	72	65
14	68	71	73	71	64
15	65	69	70	69	65
16	52	55	54	53	54
17	51	51	52	52	60
18	16	17	7	8	12
19	15	13	8	7	7
20	17	18	8	8	5
21	15	17	15	14	15
22	30	15	9	12	11
23	40	19	8	8	18

Tuakau

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	63	18	69	22	73
1	62	18	68	20	72
2	67	19	71	21	67
3	64	19	71	23	74
4	62	22	72	21	77
5	64	22	83	38	90
6	76	31	96	64	100
7	75	53	119	76	110
8	57	43	86	78	117
9	59	47	90	66	98
10	59	44	73	71	72
11	44	63	66	68	68
12	36	70	64	66	67
13	39	67	68	72	66
14	40	33	67	74	71
15	59	48	65	70	70
16	56	76	63	71	62
17	44	53	67	70	61
18	31	56	66	80	62
19	22	67	66	75	44
20	19	71	39	72	28
21	18	69	30	77	28
22	20	75	25	72	19
23	19	74	20	74	20

Papakura

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	285	318	254	281	279
1	279	311	247	264	274
2	274	298	245	262	265
3	270	290	244	259	261
4	270	286	240	254	258
5	276	295	249	262	259
6	323	334	301	294	291
7	376	371	346	338	328
8	381	370	356	340	337
9	382	352	340	323	334
10	376	324	326	308	332
11	376	312	320	296	331
12	369	308	315	260	328
13	363	307	310	253	322
14	360	300	305	254	319
15	360	294	301	255	313
16	359	296	299	255	310
17	364	307	308	272	308
18	386	333	320	284	306
19	391	340	321	290	305
20	381	335	318	290	308
21	371	322	312	289	307
22	355	307	309	285	285
23	340	282	302	283	256

Henderson

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	47	89	17	14	19
1	67	85	15	4	24
2	56	79	26	22	29
3	56	89	33	17	28
4	74	86	63	40	22
5	111	130	86	73	43
6	212	220	192	177	169
7	312	328	270	284	262
8	310	325	261	250	255
9	269	255	213	177	210
10	241	156	172	166	187
11	223	174	178	156	188
12	215	213	159	119	174
13	197	169	158	121	152
14	175	149	115	95	121
15	138	121	92	109	75
16	174	147	101	120	75
17	246	196	162	156	129
18	322	259	220	229	187
19	331	278	236	238	191
20	294	253	218	230	166
21	244	213	178	181	130
22	192	128	106	115	74
23	136	59	39	43	19

Whangarei

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	8	10	11	13	10
1	10	10	12	13	9
2	9	10	11	12	11
3	10	11	12	12	11
4	11	13	14	12	13
5	19	20	19	20	17
6	26	28	27	30	30
7	32	37	36	38	36
8	35	36	38	36	36
9	36	40	35	34	37
10	36	34	33	35	34
11	32	30	32	34	34
12	31	31	31	31	31
13	28	29	31	28	32
14	25	25	27	25	26
15	21	28	25	26	23
16	22	28	27	25	25
17	25	29	27	28	25
18	28	28	31	30	27
19	26	26	30	27	26
20	22	24	25	23	23
21	19	20	21	17	18
22	13	17	16	13	15
23	12	14	14	11	11

Maungaturoto

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	59	66	58	87	82
1	54	69	50	91	88
2	61	83	48	92	90
3	63	82	49	92	91
4	56	69	42	87	92
5	56	78	42	78	89
6	50	92	44	69	78
7	49	89	43	47	78
8	51	87	38	42	78
9	45	91	43	35	68
10	59	90	44	31	73
11	64	89	31	29	68
12	66	87	29	36	77
13	67	86	47	35	84
14	68	91	63	67	88
15	70	93	83	78	87
16	68	89	89	85	88
17	64	65	90	87	87
18	54	63	84	89	89
19	56	75	87	89	88
20	53	86	77	91	92
21	63	75	85	92	85
22	55	69	80	90	89
23	63	69	87	93	87

Waikumete

Hour	9-Aug-2021	10-Aug-2021	11-Aug-2021	12-Aug-2021	13-Aug-2021
0	171	187	179	178	178
1	169	180	173	167	168
2	169	179	170	166	165
3	170	181	171	167	165
4	181	191	182	175	172
5	204	214	204	199	195
6	278	284	278	270	265
7	344	361	341	333	325
8	345	357	333	320	323
9	325	315	296	280	298
10	312	303	276	268	290
11	300	295	270	259	290
12	287	283	261	250	285
13	272	263	252	244	270
14	263	255	240	231	246
15	254	247	233	233	228
16	274	264	241	241	235
17	317	298	275	269	263
18	359	327	302	304	287
19	352	329	304	303	281
20	323	308	288	290	264
21	288	277	261	261	242
22	238	229	222	223	211
23	204	194	192	191	182

2.2 Central North System

Hamilton Temple View

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	96	116	107	125	122
1	94	109	107	97	98
2	93	110	99	90	97
3	97	116	96	98	94
4	108	128	105	101	101
5	142	177	149	147	133
6	222	265	231	233	197
7	308	357	301	301	266
8	286	327	271	271	242
9	270	265	230	233	209
10	235	232	205	197	197
11	223	217	186	172	196
12	198	203	175	167	188
13	196	187	187	158	162
14	171	177	167	148	144
15	166	175	159	138	141
16	190	201	183	157	160
17	261	257	235	203	206
18	310	300	270	239	232
19	294	298	262	236	227
20	248	271	230	241	215
21	246	239	203	212	180
22	169	183	162	171	142
23	136	144	142	137	112

Tatuanui DF

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	45	62	56	65	52
1	52	63	51	66	64
2	57	63	53	65	67
3	50	61	55	65	64
4	46	51	56	53	63
5	47	58	58	50	56
6	45	64	64	58	55
7	52	69	58	57	48
8	57	64	52	56	46
9	60	60	51	50	46
10	46	65	46	48	44
11	44	66	44	44	43
12	39	59	44	39	43
13	41	48	40	32	46
14	37	40	43	20	49
15	27	43	41	23	42
16	43	44	32	39	35
17	57	58	30	46	43
18	58	57	48	47	54
19	51	50	46	41	50
20	54	53	44	38	47
21	58	55	61	45	46
22	65	57	65	42	42
23	64	53	63	45	46

Waitoa

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	64	78	76	64	69
1	61	70	67	59	70
2	56	69	70	54	64
3	62	72	68	57	69
4	65	70	71	62	71
5	71	78	74	69	69
6	68	80	74	66	76
7	67	80	74	74	71
8	66	76	71	69	73
9	68	73	69	67	71
10	67	69	71	64	74
11	64	68	67	59	73
12	69	70	66	70	72
13	72	68	61	70	72
14	71	65	58	72	66
15	73	64	63	72	71
16	73	71	63	70	68
17	73	68	60	72	68
18	74	72	57	70	71
19	71	69	59	65	65
20	70	67	59	69	66
21	75	69	64	69	70
22	79	74	60	74	77
23	76	73	63	74	75

Cambridge

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	59	68	63	54	64
1	73	77	68	44	51
2	59	72	66	53	61
3	64	65	68	68	68
4	68	71	66	67	65
5	89	84	68	59	73
6	97	106	89	67	83
7	112	124	100	74	89
8	101	101	86	83	83
9	98	88	75	89	79
10	76	79	63	83	74
11	73	75	50	78	72
12	75	75	51	63	68
13	73	51	62	63	74
14	83	57	59	61	68
15	81	65	56	70	72
16	86	83	55	74	80
17	100	93	77	82	78
18	109	102	82	96	84
19	103	99	86	94	88
20	102	89	77	88	85
21	98	83	74	74	69
22	85	73	66	69	63
23	68	53	65	69	69

Kiwitahi (Degussa)

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	37	41	41	38	37
1	37	39	40	37	37
2	37	38	41	39	37
3	37	39	41	40	37
4	37	39	39	37	37
5	38	38	39	39	37
6	40	39	39	40	39
7	41	39	39	38	37
8	39	38	38	36	37
9	44	40	38	37	38
10	43	43	37	37	37
11	42	41	36	36	38
12	39	42	38	36	39
13	38	44	39	38	39
14	39	41	37	39	39
15	38	40	39	39	38
16	39	41	42	40	38
17	38	40	41	40	39
18	38	40	40	38	39
19	40	40	39	40	40
20	42	40	39	40	39
21	40	39	38	37	37
22	40	40	39	37	39
23	42	41	38	37	39

Hamilton Te Kowhai

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	35	61	50	57	48
1	31	54	44	53	41
2	31	55	44	37	35
3	35	59	45	38	38
4	46	68	51	45	42
5	71	96	73	70	63
6	131	156	130	125	109
7	179	216	176	171	156
8	173	216	162	160	155
9	168	170	135	124	133
10	145	141	121	102	129
11	132	128	98	89	118
12	119	109	85	84	113
13	107	96	93	77	95
14	94	83	85	69	78
15	98	86	81	72	73
16	108	103	89	86	85
17	159	139	130	118	115
18	192	168	153	143	135
19	181	170	147	139	129
20	148	149	129	125	118
21	146	126	110	107	100
22	99	92	84	75	74
23	71	66	67	55	54

Te Rapa Cogen

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	517	641	600	604	608
1	486	635	604	616	624
2	533	634	604	616	624
3	568	641	616	620	628
4	567	635	628	608	620
5	567	642	620	608	624
6	567	638	616	616	596
7	566	648	656	620	580
8	550	594	656	604	568
9	546	589	648	584	572
10	545	585	600	568	564
11	543	556	588	564	568
12	545	548	572	572	564
13	554	547	576	608	560
14	539	544	576	620	560
15	540	549	600	604	576
16	558	560	612	604	576
17	658	580	620	608	596
18	672	612	616	604	600
19	667	576	608	612	600
20	677	588	612	616	600
21	667	572	612	608	600
22	654	584	600	612	584
23	643	600	588	612	584

Morrinsville DF

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	40	13	13	27	14
1	40	13	13	25	15
2	40	12	13	25	17
3	36	12	15	24	19
4	36	12	14	24	11
5	37	14	16	16	10
6	24	13	22	15	11
7	18	14	26	14	11
8	17	14	16	13	17
9	14	16	13	15	17
10	8	10	12	15	15
11	7	6	12	14	17
12	6	3	16	17	19
13	6	4	19	12	24
14	8	6	19	8	18
15	20	7	21	12	21
16	18	11	20	17	25
17	17	17	17	16	23
18	15	16	15	15	23
19	13	14	16	14	26
20	13	13	17	14	26
21	13	14	18	13	23
22	13	13	19	14	25
23	13	13	19	14	29

Horotiu

Hour	09-Aug-21	10-Aug-21	11-Aug-21	12-Aug-21	13-Aug-21
0	53	63	63	59	62
1	48	57	61	46	53
2	47	49	61	46	46
3	48	49	48	46	47
4	48	49	48	45	45
5	47	48	47	47	47
6	53	55	51	52	45
7	48	57	47	46	45
8	49	53	24	49	46
9	56	57	20	45	54
10	75	73	43	56	74
11	69	53	34	49	72
12	77	44	30	46	72
13	70	52	46	39	67
14	45	69	72	35	69
15	44	64	66	36	34
16	37	61	58	42	28
17	61	63	65	50	49
18	70	67	68	57	62
19	68	63	64	62	65
20	67	66	67	65	65
21	67	66	62	66	48
22	63	60	61	60	46
23	63	62	63	63	64

2.3 Central South System

New Plymouth

Hour	12-Jul-21	13-Jul-21	14-Jul-21	15-Jul-21	16-Jul-21
0	98	97	98	96	80
1	86	91	93	87	76
2	87	86	83	76	63
3	81	85	93	74	68
4	87	88	90	75	68
5	93	90	82	70	60
6	109	102	108	92	78
7	162	152	164	130	117
8	214	210	227	176	153
9	226	233	240	170	169
10	207	196	213	152	149
11	184	160	159	157	138
12	164	141	129	136	134
13	142	127	121	119	118
14	124	126	114	121	108
15	117	107	125	109	108
16	130	108	130	113	124
17	149	118	141	131	154
18	214	175	188	167	186
19	243	214	220	193	186
20	234	221	216	184	171
21	217	204	200	164	148
22	173	168	169	136	125
23	130	128	129	107	99

Pokuru Offtake

Hour	12-Jul-21	13-Jul-21	14-Jul-21	15-Jul-21	16-Jul-21
0	736	792	0	0	0
1	792	792	0	0	0
2	788	792	0	0	0
3	792	792	0	0	0
4	788	792	0	0	0
5	764	792	0	0	0
6	788	792	0	584	0
7	784	792	0	1432	0
8	788	800	0	1420	0
9	784	796	0	1344	0
10	788	796	0	1172	0
11	784	800	0	1200	0
12	784	792	0	1180	0
13	784	648	0	1164	0
14	784	492	0	1160	0
15	784	360	0	1160	0
16	784	360	0	1168	0
17	784	500	0	1168	0
18	784	632	0	688	0
19	792	632	0	0	0
20	792	632	0	0	304
21	792	504	0	0	560
22	792	0	0	0	0
23	792	0	0	0	0

Waitara

Hour	12-Jul-21	13-Jul-21	14-Jul-21	15-Jul-21	16-Jul-21
0	18	15	18	16	11
1	16	15	17	16	11
2	16	15	19	16	10
3	16	15	18	15	11
4	17	14	19	14	10
5	18	15	19	16	10
6	20	18	22	18	13
7	25	22	27	19	16
8	27	23	28	20	18
9	25	20	23	19	19
10	24	17	18	16	18
11	20	16	15	14	16
12	16	14	14	12	15
13	16	14	14	12	15
14	17	11	15	13	14
15	16	13	16	13	15
16	18	17	18	16	19
17	25	25	23	20	20
18	28	27	26	20	19
19	26	27	26	19	19
20	25	26	25	18	17
21	22	23	23	16	15
22	19	23	21	14	14
23	16	19	17	12	13

2.4 Bay of Plenty System

Lichfield DF

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	76	71	76	52	90
1	79	70	90	60	88
2	82	72	82	63	86
3	77	63	81	66	88
4	79	71	86	75	104
5	72	53	82	73	94
6	68	49	81	66	80
7	84	60	89	74	79
8	92	71	94	85	83
9	88	68	89	93	88
10	91	77	94	97	102
11	90	79	83	96	90
12	72	69	68	86	75
13	70	55	67	73	91
14	73	61	72	67	78
15	69	61	67	71	85
16	69	57	76	87	68
17	79	68	67	83	79
18	69	70	63	76	91
19	78	64	48	63	77
20	86	64	53	66	76
21	82	68	53	78	76
22	90	73	58	79	69
23	78	71	58	85	81

Lichfield 2

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	165	168	171	165	169
1	171	165	171	173	172
2	171	170	172	174	175
3	173	169	167	172	176
4	171	172	168	169	171
5	178	172	173	175	173
6	170	175	171	173	175
7	170	166	169	171	173
8	167	165	166	162	169
9	163	164	161	164	166
10	170	166	167	165	169
11	166	165	161	169	169
12	163	160	115	164	166
13	168	161	159	162	165
14	167	166	157	166	165
15	167	160	160	168	164
16	158	163	170	171	170
17	158	159	176	169	170
18	167	164	173	171	166
19	159	167	169	168	161
20	161	166	173	168	165
21	159	164	169	171	175
22	165	170	170	171	169
23	170	165	170	167	165

Edgecumbe DF

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	196	201	185	206	205
1	202	181	187	205	200
2	210	187	192	202	214
3	200	183	208	210	212
4	191	176	203	198	206
5	193	179	198	168	204
6	197	181	200	174	197
7	198	170	194	153	194
8	193	165	187	181	184
9	199	162	183	195	181
10	177	168	182	186	184
11	161	176	194	172	185
12	176	188	200	170	195
13	189	191	199	177	197
14	180	197	216	189	193
15	185	194	209	194	201
16	186	195	201	200	202
17	205	193	190	195	204
18	196	195	188	197	198
19	198	194	186	191	195
20	198	202	188	201	198
21	202	194	199	197	206
22	204	178	199	192	208
23	206	184	205	199	209

Reporoa

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	92	87	92	91	94
1	92	82	90	96	89
2	99	86	96	96	93
3	97	84	95	96	92
4	98	81	93	95	95
5	99	84	96	97	94
6	95	80	93	94	95
7	96	76	90	85	91
8	95	68	92	82	92
9	95	52	87	77	89
10	95	50	90	76	88
11	91	52	90	81	91
12	92	56	92	81	91
13	87	48	92	86	91
14	91	56	90	89	89
15	89	55	92	94	89
16	89	54	90	92	89
17	92	61	92	90	93
18	90	83	93	94	94
19	92	85	95	94	93
20	90	88	91	93	96
21	89	88	93	93	93
22	91	93	93	91	92
23	85	89	94	93	93

Whakatane

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	117	114	36	113	122
1	118	118	39	35	118
2	118	118	106	111	123
3	118	107	124	120	123
4	118	67	124	122	123
5	120	110	129	125	126
6	121	125	131	128	129
7	124	126	128	126	129
8	122	65	129	129	129
9	125	44	128	128	131
10	126	46	129	130	130
11	127	71	131	128	133
12	129	75	128	131	134
13	127	73	127	127	130
14	128	67	127	129	130
15	131	45	126	126	131
16	121	42	119	126	129
17	122	41	89	127	129
18	124	39	36	126	130
19	122	38	37	125	129
20	122	37	70	123	119
21	121	36	54	125	129
22	117	35	116	122	121
23	119	36	126	122	116

Tirau DF

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	61	62	69	63	62
1	59	62	66	61	55
2	58	59	61	57	57
3	60	63	65	57	56
4	65	50	62	60	55
5	66	45	68	67	62
6	64	45	67	70	59
7	64	46	65	71	53
8	66	43	63	72	52
9	50	48	63	69	43
10	50	48	65	67	67
11	39	41	45	66	70
12	55	48	47	55	65
13	54	48	43	56	61
14	52	55	32	38	59
15	46	52	42	47	51
16	42	54	54	59	53
17	47	52	60	62	59
18	51	54	64	64	60
19	59	60	66	63	61
20	63	65	66	61	60
21	62	66	66	62	60
22	63	65	67	60	60
23	65	66	63	64	59

Pyes Pa

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	10	12	13	13	12
1	10	11	12	12	13
2	10	12	13	13	13
3	12	13	14	13	14
4	16	16	16	16	16
5	21	20	21	20	20
6	26	24	23	26	25
7	26	25	26	27	27
8	27	26	26	29	28
9	25	26	26	28	26
10	26	27	27	29	27
11	26	27	28	28	27
12	26	26	28	28	25
13	24	24	26	26	25
14	24	26	26	24	25
15	22	24	26	22	23
16	19	20	22	21	20
17	19	19	20	22	20
18	18	20	21	21	20
19	18	19	19	20	19
20	16	18	18	18	18
21	15	15	16	16	15
22	14	15	15	15	14
23	13	14	14	14	13

Kinleith (CHH Mill)

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	338	394	731	364	572
1	327	298	781	385	550
2	338	293	777	266	439
3	299	228	806	514	486
4	310	201	683	461	481
5	332	217	723	557	476
6	353	245	702	643	444
7	326	228	712	669	476
8	336	271	703	702	380
9	323	216	655	638	341
10	306	308	655	674	437
11	305	281	681	774	384
12	290	210	665	743	336
13	274	209	664	738	319
14	293	305	685	843	320
15	303	286	643	883	330
16	287	318	592	806	346
17	314	324	571	779	250
18	299	282	553	621	363
19	206	276	547	464	304
20	190	325	493	404	277
21	190	314	381	420	271
22	266	489	401	399	293
23	411	632	412	461	287

Kawerau (Tasman)

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	70	68	72	69	71
1	70	69	72	69	71
2	70	68	72	69	71
3	70	68	68	69	71
4	70	68	64	70	70
5	70	68	63	70	70
6	71	68	63	69	69
7	71	68	58	70	70
8	70	68	58	70	69
9	70	68	59	70	69
10	71	68	60	70	69
11	72	69	61	69	69
12	71	69	61	69	69
13	72	69	61	69	69
14	72	69	61	69	69
15	73	70	60	70	69
16	73	71	59	72	69
17	72	71	58	72	69
18	72	71	61	72	69
19	70	71	64	71	69
20	69	72	65	71	70
21	68	72	65	72	70
22	68	71	66	71	70
23	68	71	69	72	70

Tauranga

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	1	3	3	3	4
1	1	3	3	4	7
2	1	3	4	4	6
3	2	5	5	5	7
4	10	9	13	14	11
5	20	23	21	23	25
6	31	32	31	37	38
7	32	33	34	36	40
8	28	29	29	33	37
9	28	26	29	31	31
10	24	26	27	29	31
11	24	24	33	29	31
12	23	23	33	27	32
13	18	19	27	24	26
14	19	17	26	21	23
15	18	15	22	21	25
16	19	18	25	29	24
17	22	22	30	34	32
18	26	25	32	36	34
19	21	24	28	31	32
20	16	17	22	25	26
21	12	11	14	15	17
22	6	8	10	10	9
23	5	6	7	7	8

Gisborne

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	9	13	13	14	16
1	9	13	13	13	14
2	10	13	14	14	16
3	13	16	15	15	18
4	15	17	17	17	19
5	22	22	28	22	25
6	36	30	29	33	36
7	37	33	30	35	40
8	33	38	32	37	40
9	35	28	30	37	37
10	29	28	28	35	34
11	28	30	29	34	32
12	30	25	26	35	33
13	30	22	24	34	29
14	28	22	25	33	28
15	25	23	26	35	28
16	25	23	33	37	31
17	25	25	34	41	30
18	26	25	34	39	34
19	25	23	28	36	33
20	19	20	23	29	29
21	18	17	20	24	25
22	14	14	16	18	20
23	14	13	15	16	17

Mount Maunganui

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	58	54	60	64	64
1	55	53	56	65	61
2	59	58	59	66	61
3	57	63	62	65	63
4	67	64	68	69	65
5	65	78	79	76	76
6	87	102	96	95	89
7	94	97	102	98	94
8	95	97	101	103	94
9	94	95	97	94	92
10	95	94	95	89	90
11	83	83	89	82	88
12	86	85	91	84	86
13	85	85	88	81	90
14	87	89	88	83	80
15	79	74	81	98	75
16	73	82	77	98	76
17	74	85	82	98	70
18	75	74	81	94	67
19	65	66	77	98	67
20	62	61	74	89	62
21	57	59	66	64	51
22	50	59	62	56	45
23	55	58	59	57	45

Rotorua

Hour	5-Oct-2020	6-Oct-2020	7-Oct-2020	8-Oct-2020	9-Oct-2020
0	17	10	22	18	26
1	16	12	23	19	26
2	17	10	23	19	25
3	19	14	25	22	28
4	29	24	37	36	42
5	47	35	50	53	58
6	60	50	62	69	75
7	65	49	66	68	75
8	53	43	61	57	63
9	45	41	58	52	58
10	42	46	55	57	55
11	41	45	54	54	52
12	39	41	52	51	48
13	39	36	47	49	49
14	33	37	41	46	40
15	31	34	36	45	37
16	33	38	37	56	42
17	34	43	41	63	47
18	35	45	46	66	55
19	31	44	44	62	55
20	25	36	39	54	48
21	19	31	33	42	34
22	14	25	23	32	28
23	12	24	21	28	20

2.6 South System

Paraparaumu

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	6	6	7	6	7
1	5	4	6	5	6
2	4	4	6	5	6
3	4	5	6	4	6
4	6	5	7	6	7
5	8	8	11	9	11
6	16	21	24	21	21
7	26	26	32	29	32
8	23	23	29	31	31
9	21	17	22	29	28
10	18	14	17	25	21
11	20	12	15	26	17
12	21	12	14	25	15
13	20	12	12	23	14
14	19	11	13	22	12
15	21	9	15	26	11
16	25	12	19	30	17
17	29	17	25	39	27
18	29	28	31	39	32
19	26	29	28	35	32
20	21	25	24	29	29
21	16	21	19	23	24
22	16	17	19	18	18
23	8	10	12	12	12

Hawera

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	14	14	11	32	33
1	14	12	29	31	33
2	5	6	33	31	39
3	6	6	32	32	37
4	11	12	38	36	43
5	26	25	52	51	55
6	53	34	63	59	63
7	64	42	74	67	73
8	61	35	75	67	87
9	55	31	67	65	87
10	52	31	66	65	69
11	56	29	66	64	56
12	61	24	64	66	49
13	62	20	65	46	50
14	61	20	61	44	46
15	60	14	60	45	42
16	63	19	45	41	44
17	69	25	41	54	50
18	70	31	43	47	73
19	61	30	42	44	73
20	55	27	31	48	68
21	33	22	23	51	62
22	19	14	38	42	56
23	15	10	35	35	49

Wanganui

Hour	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021	18-Sep-2021
0	114	129	101	145	156
1	108	105	99	144	150
2	111	106	114	117	145
3	120	121	138	141	148
4	128	110	140	147	151
5	150	156	159	169	164
6	185	190	190	198	196
7	203	216	214	210	197
8	162	199	184	183	178
9	150	186	173	177	167
10	139	170	156	178	188
11	160	164	152	200	168
12	157	166	150	198	163
13	172	156	153	198	164
14	164	154	155	198	161
15	151	125	164	207	161
16	163	125	175	197	168
17	177	148	201	229	191
18	176	189	201	244	211
19	168	169	196	221	199
20	162	159	180	193	163
21	143	139	162	203	142
22	128	123	137	182	107
23	137	105	123	165	132

Marston

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	21	36	8	24	36
1	20	33	8	23	36
2	16	31	8	25	33
3	16	28	14	24	31
4	14	28	29	20	30
5	14	29	31	19	29
6	14	31	36	20	32
7	10	25	35	22	33
8	9	24	35	24	33
9	27	25	34	17	30
10	25	23	33	31	25
11	25	17	32	34	22
12	25	11	34	35	16
13	28	9	33	35	10
14	28	10	33	34	10
15	28	9	34	36	10
16	33	10	35	36	10
17	35	11	37	38	12
18	34	12	39	39	11
19	35	12	39	38	12
20	34	13	36	35	11
21	33	13	32	51	10
22	33	12	29	37	9
23	33	9	25	37	8

Palmerston North

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	61	61	71	64	76
1	57	56	64	59	67
2	53	57	63	59	65
3	55	60	68	66	69
4	66	72	84	79	74
5	95	103	117	109	104
6	179	189	206	203	201
7	222	233	265	257	263
8	189	214	244	231	247
9	172	187	220	223	218
10	159	160	204	214	196
11	147	149	204	221	184
12	152	139	192	211	169
13	171	132	188	216	160
14	160	120	178	208	156
15	168	116	191	211	154
16	192	133	215	242	170
17	210	169	236	263	191
18	209	209	238	268	210
19	189	206	220	243	210
20	168	182	186	213	187
21	130	147	148	180	156
22	94	110	110	132	122
23	69	81	81	93	92

Pahiatua DF

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	111	109	155	134	151
1	118	120	143	136	151
2	116	124	121	135	152
3	117	126	125	130	156
4	122	131	136	142	153
5	125	130	143	153	157
6	131	132	100	132	154
7	125	120	92	123	136
8	121	120	89	132	111
9	121	117	82	149	103
10	122	113	78	152	103
11	126	113	78	151	114
12	122	115	83	148	109
13	124	115	95	142	109
14	124	116	106	139	116
15	118	121	116	142	125
16	117	124	137	149	147
17	120	131	137	144	151
18	115	132	135	140	152
19	115	127	136	139	151
20	112	130	139	138	153
21	111	132	138	144	149
22	111	146	131	150	152
23	100	145	142	149	149

Longburn

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	26	27	31	30	26
1	24	24	30	34	28
2	24	28	27	29	30
3	22	23	26	24	25
4	23	24	23	28	28
5	23	25	26	24	27
6	32	26	30	27	24
7	33	34	35	30	29
8	36	35	36	35	32
9	35	35	43	31	29
10	35	37	39	31	31
11	30	42	32	33	31
12	30	32	30	32	32
13	35	30	32	35	32
14	33	29	31	36	31
15	28	22	31	31	33
16	29	26	33	34	39
17	30	28	34	37	35
18	31	34	34	34	32
19	30	29	32	36	40
20	30	33	34	34	35
21	30	33	32	28	32
22	30	31	31	26	32
23	27	29	32	29	29

Levin

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	14	29	28	22	24
1	13	27	27	19	22
2	13	21	18	14	18
3	15	19	15	14	16
4	17	25	23	25	21
5	31	30	31	24	29
6	39	39	37	32	44
7	52	45	51	40	51
8	52	47	52	44	60
9	42	43	42	48	57
10	40	42	38	39	48
11	45	40	37	43	45
12	43	30	39	42	43
13	45	34	46	56	47
14	46	37	45	60	47
15	58	40	39	61	47
16	47	34	39	53	37
17	47	38	45	52	41
18	47	47	48	53	46
19	44	47	45	50	46
20	42	44	42	47	46
21	38	40	37	42	41
22	31	33	29	35	34
23	29	27	24	27	28

Belmont

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	67	76	118	96	100
1	65	75	106	86	98
2	64	70	102	84	90
3	63	72	108	90	96
4	74	83	123	102	109
5	120	135	187	152	165
6	255	285	350	296	312
7	348	391	469	409	435
8	304	330	401	357	415
9	253	275	304	307	339
10	242	244	233	291	283
11	244	223	209	288	275
12	244	232	188	283	262
13	244	222	176	275	234
14	227	208	165	265	222
15	224	201	162	279	223
16	265	233	201	332	282
17	311	290	275	388	352
18	322	371	329	414	383
19	293	368	329	394	369
20	236	330	294	341	327
21	194	276	257	274	273
22	141	192	176	185	198
23	96	142	121	131	141

Feilding

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	14	21	24	22	27
1	14	23	25	23	24
2	17	25	23	23	25
3	15	21	24	23	24
4	18	23	29	26	29
5	24	27	34	29	33
6	34	37	41	38	42
7	44	47	57	48	53
8	40	45	51	48	48
9	39	37	47	47	46
10	37	33	51	46	44
11	35	33	47	47	44
12	34	36	43	45	39
13	34	36	45	45	46
14	36	35	44	46	42
15	38	35	42	43	35
16	38	30	40	46	35
17	41	36	42	50	38
18	40	41	44	49	42
19	37	39	40	46	39
20	34	38	36	44	36
21	32	34	34	39	33
22	25	29	28	32	27
23	24	27	23	26	25

Hastings

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	116	164	223	212	250
1	115	190	237	214	249
2	125	191	237	223	236
3	132	192	241	223	227
4	158	213	225	221	237
5	181	219	244	236	244
6	227	293	290	310	293
7	289	327	339	359	352
8	257	343	376	381	386
9	254	326	340	345	356
10	243	308	321	356	355
11	246	320	325	352	334
12	219	291	306	347	335
13	218	267	282	328	317
14	217	287	291	347	313
15	227	271	299	351	285
16	225	240	290	333	265
17	217	279	289	332	290
18	221	257	288	316	280
19	235	274	290	313	288
20	220	272	269	306	306
21	184	229	225	256	262
22	187	204	233	264	248
23	160	213	224	260	249

Pauatahani

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	9	8	12	10	11
1	8	8	12	9	11
2	7	7	12	9	11
3	8	8	12	10	11
4	9	10	13	11	12
5	12	13	17	13	14
6	22	24	30	26	28
7	28	31	37	33	36
8	23	25	26	28	32
9	19	17	16	23	24
10	19	14	13	22	18
11	19	14	11	20	17
12	19	14	11	21	15
13	19	12	11	20	15
14	18	11	11	20	14
15	20	12	11	23	15
16	24	13	15	29	18
17	30	19	22	37	28
18	32	30	28	41	36
19	28	32	28	38	35
20	23	29	26	31	31
21	18	25	22	22	27
22	13	17	16	19	20
23	11	13	12	13	14

Wellington (Tawa)

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	125	125	178	161	184
1	112	119	177	143	173
2	113	120	169	142	183
3	127	126	182	145	200
4	156	159	211	176	224
5	238	247	313	264	323
6	438	486	559	509	560
7	639	711	781	725	809
8	587	679	669	714	835
9	488	574	489	620	730
10	480	536	420	596	670
11	482	505	384	584	649
12	479	486	363	595	600
13	489	476	345	584	575
14	459	437	327	580	508
15	466	448	318	584	494
16	508	508	356	641	554
17	542	576	422	698	654
18	519	635	480	708	680
19	454	630	485	674	643
20	384	573	454	597	588
21	304	475	391	489	500
22	214	324	286	341	374
23	152	218	189	227	264

Waitangirua (Hutt Valley)

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	15	15	21	16	21
1	12	14	18	15	17
2	13	14	21	17	18
3	14	15	23	16	21
4	17	20	29	20	25
5	32	36	45	37	41
6	68	80	91	81	88
7	92	102	114	105	116
8	79	90	92	95	109
9	68	72	65	85	92
10	68	62	52	80	73
11	65	56	42	77	72
12	64	55	38	77	59
13	61	48	34	71	54
14	56	40	31	70	48
15	61	41	31	75	49
16	70	47	43	87	68
17	84	66	63	105	88
18	83	91	79	109	96
19	73	92	78	104	93
20	60	82	70	84	80
21	47	68	57	63	64
22	31	44	38	47	47
23	20	28	23	28	31

Waikanae

Hour	13-Sep-2021	14-Sep-2021	15-Sep-2021	16-Sep-2021	17-Sep-2021
0	3	3	4	3	4
1	1	2	3	2	4
2	2	2	3	3	3
3	2	2	4	3	4
4	4	4	7	4	6
5	8	9	11	9	11
6	18	21	25	21	22
7	26	28	34	30	34
8	26	24	32	34	38
9	24	17	24	29	29
10	20	13	14	26	20
11	20	11	13	25	15
12	21	10	14	25	14
13	21	8	12	23	12
14	21	8	13	23	12
15	23	8	13	26	11
16	26	11	20	32	17
17	31	17	27	40	28
18	33	29	33	42	36
19	29	31	31	39	36
20	23	27	27	33	34
21	19	23	21	26	27
22	11	14	13	15	18
23	4	6	6	7	10

2.6 Frankley Road System

Taranaki Combined Cycle

Hour	5-Apr-2021	6-Apr-2021	7-Apr-2021	8-Apr-2021	9-Apr-2021
0	1,386	1,379	1,645	1,681	-
1	1,382	1,378	1,399	1,527	-
2	1,384	1,377	1,393	1,391	-
3	1,384	1,378	1,394	1,391	-
4	1,383	1,376	1,396	1,391	-
5	1,384	1,375	1,520	1,391	-
6	1,382	1,376	1,725	1,948	-
7	1,382	1,375	2,157	2,292	-
8	1,476	1,372	2,018	2,224	-
9	1,702	1,371	1,954	2,217	-
10	1,767	1,370	2,072	2,216	-
11	1,763	1,372	2,211	2,218	-
12	1,560	1,646	2,215	2,217	-
13	1,413	1,654	2,214	2,425	-
14	1,360	1,652	2,215	2,222	-
15	1,366	1,653	2,214	2,229	-
16	1,368	1,654	2,215	2,223	-
17	1,778	1,654	2,253	2,225	-
18	1,948	1,849	2,402	2,273	-
19	1,807	1,819	2,427	2,182	-
20	1,645	1,648	2,219	2,074	-
21	2,022	1,648	2,119	2,089	-
22	1,460	1,649	1,880	2,082	-
23	1,374	1,397	2,054	1,106	-

Stratford 3

Hour	5-Apr-2021	6-Apr-2021	7-Apr-2021	8-Apr-2021	9-Apr-2021
0	996	1,568	1,920	1,876	1,600
1	1,024	1,484	1,836	2,084	1,944
2	1,020	1,516	1,836	2,004	1,838
3	1,010	1,530	1,850	2,024	1,840
4	1,010	1,554	1,858	2,040	1,842
5	1,004	1,568	1,802	2,036	1,792
6	994	1,296	1,796	1,996	1,812
7	922	1,156	1,804	2,040	1,848
8	948	1,164	1,888	1,974	1,824
9	1,064	1,160	1,742	1,986	1,614
10	1,322	1,192	1,600	1,996	-
11	1,858	1,708	1,508	2,004	-
12	2,356	1,664	1,556	2,002	-
13	2,396	1,784	1,552	1,986	-
14	2,474	1,896	868	1,556	386
15	2,474	2,088	882	896	1,024
16	2,514	2,088	858	588	140
17	2,506	2,138	8	-	-
18	2,740	2,718	-	-	-
19	2,712	2,700	-	-	-
20	2,662	2,652	-	-	-
21	2,694	2,620	-	-	-
22	2,716	2,224	-	-	-
23	2,704	2,752	-	-	16

AUP

Hour	5-Apr-2021	6-Apr-2021	7-Apr-2021	8-Apr-2021	9-Apr-2021
0	851	833	856	848	865
1	839	832	852	847	861
2	847	828	852	846	861
3	852	831	857	846	865
4	849	831	857	851	861
5	849	831	853	843	867
6	852	831	857	851	861
7	840	828	856	842	859
8	844	836	851	852	856
9	840	828	855	855	859
10	835	837	855	858	854
11	838	834	852	853	854
12	840	835	851	857	844
13	840	840	850	852	851
14	839	850	850	853	842
15	838	850	846	857	834
16	834	851	845	854	831
17	836	856	841	858	827
18	838	852	845	854	832
19	839	855	845	859	832
20	839	851	843	861	830
21	839	851	849	861	840
22	839	852	849	864	832
23	839	856	845	860	840

2.7 Maui System

Pirongia

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	95	90	96	93	91
1	94	90	94	95	95
2	94	91	92	100	95
3	95	92	93	96	91
4	91	93	93	96	89
5	94	91	87	94	90
6	91	91	68	96	90
7	91	91	69	93	88
8	91	93	89	90	86
9	89	93	87	86	88
10	87	91	86	89	87
11	89	89	83	88	80
12	84	87	87	86	63
13	84	87	86	87	55
14	87	87	86	85	57
15	84	86	88	88	60
16	85	89	91	90	62
17	88	90	90	92	59
18	90	89	92	86	67
19	94	82	90	88	71
20	91	90	91	88	73
21	90	83	89	94	69
22	83	90	86	79	75
23	89	90	87	88	74

Ngatimaru Road

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	4,496	4,628	4,604	4,558	4,662
1	4,496	4,622	4,608	4,560	4,666
2	4,500	4,626	4,608	4,548	4,662
3	4,492	4,620	4,604	4,622	4,666
4	4,492	4,624	4,600	4,622	4,668
5	4,488	4,616	4,596	4,622	4,664
6	4,484	4,616	4,596	4,618	4,666
7	4,484	4,616	4,592	4,616	4,664
8	4,488	4,616	4,636	4,618	4,662
9	4,486	4,618	4,716	4,618	4,660
10	4,492	4,614	4,724	4,620	4,492
11	4,492	4,618	4,728	4,624	4,362
12	4,490	4,618	4,728	4,624	4,366
13	4,492	4,622	4,732	4,620	4,368
14	4,496	4,622	4,728	4,624	4,368
15	4,492	4,616	4,728	4,624	4,480
16	4,492	4,600	4,726	4,624	4,516
17	4,494	4,596	4,728	4,624	4,514
18	4,490	4,596	4,726	4,622	4,514
19	4,490	4,600	4,728	4,620	4,516
20	4,488	4,596	4,724	4,620	4,516
21	4,494	4,600	4,724	4,618	4,520
22	4,494	4,604	4,728	4,620	4,508
23	4,610	4,604	4,582	4,656	4,444

Te Kuiti South

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	21	22	25	21	23
1	20	23	24	20	22
2	22	24	25	22	23
3	22	23	23	22	22
4	22	23	24	22	22
5	22	25	24	22	23
6	21	25	25	23	23
7	22	24	24	22	23
8	22	24	9	22	23
9	22	24	3	23	23
10	22	24	18	22	22
11	23	25	25	24	24
12	23	19	17	25	24
13	24	25	25	23	23
14	23	24	26	24	24
15	22	25	26	25	25
16	23	26	26	25	25
17	23	26	25	24	24
18	23	25	26	25	25
19	23	26	25	25	23
20	23	26	25	24	16
21	23	26	25	25	25
22	23	26	11	24	25
23	23	26	21	24	25

Rotowaro

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	2,328	2,808	3,140	3,440	3,740
1	2,484	2,692	2,852	3,296	3,460
2	2,176	3,044	3,092	3,024	3,460
3	2,564	2,944	2,752	2,168	3,436
4	3,024	3,320	3,216	3,080	3,508
5	3,492	3,636	3,480	3,360	3,760
6	3,940	4,100	3,824	3,976	4,464
7	4,184	4,352	4,184	4,320	4,668
8	4,240	4,400	4,236	4,392	4,600
9	4,504	4,400	4,276	4,360	4,532
10	4,488	4,400	4,300	4,328	4,756
11	4,412	4,464	4,312	4,244	4,480
12	4,612	4,784	4,804	4,196	4,504
13	4,592	4,616	4,520	4,232	4,112
14	4,200	4,112	4,488	4,176	3,852
15	3,980	3,924	4,288	4,524	3,740
16	3,884	3,908	4,224	4,192	3,792
17	4,296	3,992	4,552	4,212	4,064
18	4,196	4,216	4,496	4,360	4,124
19	4,116	4,244	4,488	4,596	4,060
20	3,888	4,116	4,404	4,368	3,864
21	3,712	3,708	4,224	4,036	3,664
22	3,612	3,496	3,876	3,916	3,360
23	3,396	3,256	3,592	3,804	3,172

Huntly Power Station

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	3,816	2,544	2,736	2,800	2,848
1	3,264	2,800	2,544	2,728	2,688
2	3,072	2,816	2,584	2,736	2,672
3	3,024	3,000	3,088	2,920	2,880
4	3,432	3,448	3,640	3,304	3,224
5	3,440	3,480	3,576	3,432	3,608
6	3,432	2,968	3,472	3,328	4,144
7	3,000	2,944	3,304	3,560	3,976
8	2,840	2,936	3,256	3,392	3,696
9	2,928	2,992	3,216	3,216	3,688
10	2,960	3,152	3,176	3,192	3,584
11	3,008	3,128	3,208	3,248	3,560
12	3,144	3,088	3,192	3,288	3,408
13	3,400	3,024	3,448	3,296	3,224
14	3,424	3,224	3,400	3,344	3,232
15	3,232	3,440	3,320	3,480	3,456
16	3,264	3,576	3,312	3,480	3,728
17	3,096	3,600	3,192	3,440	3,904
18	3,064	3,592	3,216	3,272	3,952
19	3,464	3,672	3,424	3,240	3,312
20	3,488	3,720	3,568	3,240	2,408
21	3,416	3,416	3,608	3,608	1,016
22	3,152	3,496	3,464	3,728	1,152
23	2,584	2,744	2,872	2,928	1,344

Pokuru

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	984	1088	1208	1136	1152
1	988	1016	1284	1100	1164
2	996	1008	1316	1032	1148
3	988	932	1344	1068	1108
4	976	908	1388	1140	1116
5	1020	884	1348	1184	1136
6	1064	932	1424	1300	1128
7	1112	972	1468	1392	1164
8	1144	1008	1512	1456	1172
9	1144	1004	1504	1448	1096
10	1144	1000	1492	1468	1128
11	1136	1008	1492	1512	1152
12	1104	956	1468	1552	1096
13	1084	916	1456	1536	1052
14	1084	924	1456	1444	1048
15	1092	968	1448	1448	1032
16	1080	972	1440	1472	1012
17	1048	1000	1412	1488	992
18	1068	960	1388	1472	1012
19	1040	952	1376	1360	1024
20	1000	968	1328	1272	992
21	964	972	1256	1220	960
22	968	1000	1164	1180	932
23	1012	1124	1156	1116	888

Bertrand Road

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	4,042	3,953	3,959	3,887	3,930
1	4,045	3,949	3,949	3,899	3,925
2	4,048	3,909	3,950	3,894	3,919
3	4,052	3,923	3,962	3,906	3,917
4	4,061	3,934	3,949	3,926	3,924
5	4,068	3,936	3,958	3,924	3,930
6	4,066	3,948	3,971	3,925	3,933
7	4,073	3,968	3,977	3,924	3,962
8	4,055	3,962	3,979	3,916	3,957
9	4,053	3,964	3,983	3,922	3,937
10	4,054	3,958	3,967	3,908	3,925
11	4,044	3,962	3,940	3,908	3,882
12	4,047	3,976	3,941	3,825	3,864
13	4,045	3,996	3,938	3,899	3,886
14	4,047	3,992	3,935	3,901	3,873
15	4,054	3,987	3,937	3,908	3,933
16	4,047	3,990	3,942	3,911	3,908
17	4,062	3,987	3,938	3,928	3,906
18	4,054	3,997	3,954	3,942	3,878
19	4,047	3,982	3,962	3,943	3,881
20	4,075	4,006	3,946	3,941	3,877
21	4,030	3,976	3,920	3,913	3,895
22	3,970	3,990	3,918	3,911	3,891
23	3,947	3,953	3,901	3,920	3,865

Frankley Road

Hour	5-Oct-20	6-Oct-20	7-Oct-20	8-Oct-20	9-Oct-20
0	-	-	-	-	-
1	-	-	-	-	-
2	-	-	-	-	-
3	-	-	-	-	-
4	-	-	-	-	-
5	-	-	-	-	-
6	-	-	-	-	-
7	-	-	-	-	-
8	-	-	-	-	-
9	-	-	-	-	-
10	-	-	-	-	-
11	-	28	-	-	-
12	-	164	-	-	-
13	-	4	-	-	-
14	-	-	-	-	-
15	-	-	-	-	-
16	-	12	-	-	-
17	-	56	-	-	-
18	-	268	-	-	-
19	16	596	-	-	-
20	8	460	-	-	-
21	28	532	-	-	-
22	-	20	-	-	-
23	-	-	-	-	-