



REGULATORY DISCLOSURE

Gas transmission services: Peak flow disclosure

Year ended 30 September 2017



Introduction

First Gas operates 2,500km of gas transmission pipelines (including the Maui pipeline), and more than 4,800km of gas distribution pipelines across the North Island. These gas infrastructure assets transport 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.

For further information on First Gas, please visit our website www.firstgas.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 First Gas' gas transmission business (both the Maui and Non-Maui transmission systems) for the 12-month period ending 30 September 2017.

This regulatory disclosure was prepared on 28 November 2017.

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.

Map of First Gas transmission system

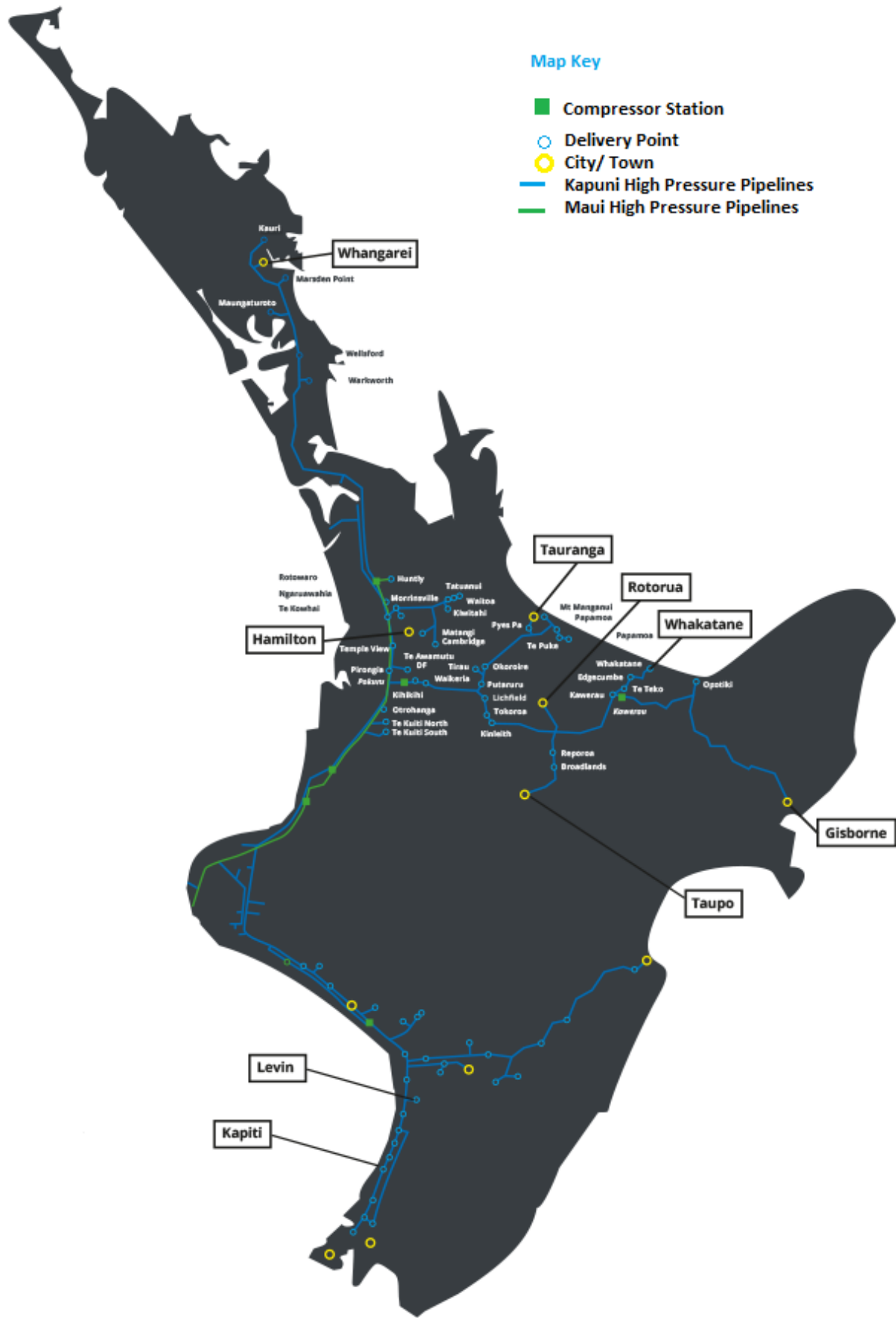


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1. Peak flow information

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		14-Jul-17	405,660		
	Harrisville 2	14-Jul-17	10,317	14-Jul-17	10,317
	Drury	14-Jul-17	5,635	14-Jul-17	5,635
	Hunua	14-Jul-17	5,498	7-Jul-17	6,422
	Flat Bush	14-Jul-17	6,769	26-May-17	8,280
	Bruce McLaren	14-Jul-17	7,421	14-Jul-17	7,421
	Marsden Point	14-Jul-17	75,992	21-Jul-17	76,760
	Waitoki	14-Jul-17	3,486	14-Jul-17	3,486
	Glenbrook	14-Jul-17	31,926	14-Jul-17	31,926
	Westfield	14-Jul-17	115,778	4-Aug-17	121,340
	Warkworth	14-Jul-17	6,109	14-Jul-17	6,109
	Tuakau	14-Jul-17	8,800	26-May-17	11,313
	Papakura	14-Jul-17	68,756	14-Jul-17	68,756
	Henderson	14-Jul-17	18,869	4-Aug-17	21,809
	Whangarei	14-Jul-17	2,823	14-Jul-17	2,823
	Maungaturoto	14-Jul-17	5,341	15-Sep-17	9,631
	Waikumete	14-Jul-17	28,376	4-Aug-17	28,842

Note:

1. The North System peak flow period was identified as the period ending 14 July 2017.
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		25-Aug-17			
	Hamilton Temple View	25-Aug-17	22,734	14-Jul-17	23,968
	Tatuanui DF	25-Aug-17	6,020	4-Nov-16	7,330
	Waitoa	25-Aug-17	6,224	26-May-17	6,900
	Cambridge	25-Aug-17	9,989	25-Aug-17	9,989
	Kiwitahi (Degussa)	25-Aug-17	4,288	30-Jun-17	4,953
	Hamilton Te Kowhai	25-Aug-17	8,540	7-Jul-17	13,485
	Te Rapa Cogen	25-Aug-17	77,910	25-Aug-17	77,910
	Morrinsville DF	25-Aug-17	2,951	29-Sep-17	5,122

Note:

1. The Central North System peak flow period was identified as the period ending 25 August 2017.
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		30-Dec-16	78,281		
	New Plymouth	30-Dec-16	6,177	14-Jul-17	17,433
	Pokuru Offtake	30-Dec-16	74,472	30-Dec-16	74,472

Note:

1. The Central South System Peak flow period was identified as the period ending 30 December 2016.
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.

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		29-Sep-17	112,124		
Pokuru 2		29-Sep-17	66,264		
	Lichfield DF	29-Sep-17	7,989	1-Sep-17	10,302
	Lichfield 2	29-Sep-17	18,014	4-Nov-16	18,096
	Edgecumbe DF	29-Sep-17	21,809	8-Sep-17	23,716
	Reporoa	29-Sep-17	8,474	22-Sep-17	10,651
	Whakatane	29-Sep-17	12,447	8-Sep-17	16,011
	Tirau DF	29-Sep-17	5,313	11-Nov-16	7,977
	Pyes Pa	29-Sep-17	2,193	14-Jul-17	2,582
	Kinleith (CHH Mill) 2	29-Sep-17	54,199	1-Sep-17	65,476
	Kawerau (Tasman)	29-Sep-17	8,807	23-Jun-17	9,250
	Tauranga	29-Sep-17	2,414	14-Jul-17	4,191
	Kawerau (Caxton)	29-Sep-17	3,022	25-Aug-17	3,315
	Gisborne	29-Sep-17	5,431	24-Mar-17	10,227
	Mt Maunganui	29-Sep-17	9,838	28-Jul-17	10,073
	Rotorua	29-Sep-17	5,717	14-Jul-17	9,013

Note:

1. The Bay of Plenty System Peak flow period was identified as the period ending 29 September 2017.
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 Tokoroa, has been excluded in 2017 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		14-Jul-17	198,989		
Rimu Production Station		14-Jul-17	3,709		
	Paraparaumu	14-Jul-17	3,835	14-Jul-17	3,835
	Hawera	14-Jul-17	4,162	4-Nov-16	8,285
	Wanganui	14-Jul-17	15,445	22-Sep-17	17,894
	Okaiawa (taranaki) by products	14-Jul-17	5,282	20-Jan-17	8,646
	Marton	14-Jul-17	2,607	4-Aug-17	3,496
	Palmerston North	14-Jul-17	21,154	4-Aug-17	21,287
	Longburn	14-Jul-17	3,697	25-Aug-17	4,001
	Levin	14-Jul-17	5,882	14-Jul-17	5,882
	Belmont	14-Jul-17	34,564	14-Jul-17	34,564
	Feilding	14-Jul-17	4,207	30-Jun-17	4,488
	Hastings	14-Jul-17	34,021	7-Apr-17	43,574
	Wellington (Tawa)	14-Jul-17	59,211	14-Jul-17	59,211
	Waitangirua (Hutt Valley)	14-Jul-17	7,484	14-Jul-17	7,484
	Pauatahanui 1	14-Jul-17	2,149	14-Jul-17	2,149

Note:

1. The South System Peak flow period was identified as the period ending 14 July 2017.
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 ,2000 Gigajoules or more during the South System's Peak Flow period have been reported.
4. Pahiatua has been excluded in 2017 as its System Peak flow was less than 2,000 Gigajoules during the South System peak flow period.

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		9-Jun-17	385,032		
Sidewinder		9-Jun-17	2,629		
Cheal Mixing Station		9-Jun-17	4,470		
Kaimiro		9-Jun-17	0		
KGTP		9-Jun-17	29,540		
Frankley Road		9-Jun-17	337,595		
Stratford 3		9-Jun-17	3		
	Taranaki Combined Cycle	9-Jun-17	243,179	9-Jun-17	243,179
	Kaimiro	9-Jun-17	12,693	28-Jul-17	32,341
	Stratford 2	9-Jun-17	200,538	16-Jun-17	205,632
	AUP	9-Jun-17	106,023	16-Jun-17	107,955

Note:

1. The Frankley Road System Peak flow period was identified as the period ending 9 June 2017.
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. Due to low customer nominations, the throughput for Frankley Road DP was not included in 2017. The throughput for Frankley Road DP was less than 2,000 Gigajoules during the System 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		2-Dec-16	551,102		
Tikorangi 1		2-Dec-16	25,478		
Tikorangi 2		2-Dec-16	188,263		
Tikorangi 3		2-Dec-16	453,650		
Kowhai		2-Dec-16	39,642		
Ngatimaru Road		2-Dec-16	902,195		
Turangi		2-Dec-16	160,379		
Frankley Road		2-Dec-16	0		
	Pirongia	2-Dec-16	9,046	25-Aug-17	14,685
	Ngatimaru Road	2-Dec-16	712,751	11-Aug-17	719,128
	Te Kuiti South	2-Dec-16	3,009	4-Nov-16	4,364
	Rotowaro	2-Dec-16	400,120	25-Aug-17	537,436
	Huntly PowerStation	2-Dec-16	172,650	23-Jun-17	543,822
	Pokuru	2-Dec-16	105,280	25-Aug-17	165,340
	Bertrand Road	2-Dec-16	514,678	14-Oct-16	529,683
	Frankley Road	2-Dec-16	414,187	2-Dec-16	414,187

Note:

1. The Maui System Peak flow period was identified as the period ending 2 December 2016.
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	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	44	39	20	70	84
1	50	49	46	70	99
2	72	58	63	86	109
3	82	72	69	108	90
4	86	87	80	123	107
5	79	92	83	129	110
6	79	90	85	131	108
7	104	96	103	128	125
8	106	107	101	96	96
9	81	80	84	82	79
10	87	92	94	108	113
11	102	101	99	115	141
12	127	116	107	140	141
13	129	108	122	145	141
14	123	102	126	145	137
15	105	89	117	144	135
16	87	102	134	143	135
17	78	79	83	119	107
18	41	38	30	107	77
19	16	17	36	94	53
20	15	17	37	92	30
21	16	15	45	87	55
22	15	19	52	80	56
23	21	25	63	64	67

Drury

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	68	55	63	58	71
1	58	54	53	63	83
2	58	45	51	76	73
3	58	57	44	80	48
4	51	58	38	82	69
5	38	64	43	86	59
6	50	54	57	82	57
7	55	47	46	68	61
8	44	42	42	43	41
9	25	27	29	27	27
10	25	24	25	29	33
11	32	31	30	25	41
12	30	32	32	48	53
13	33	28	32	62	41
14	35	32	28	48	36
15	27	30	31	55	41
16	29	29	49	61	47
17	22	25	33	69	51
18	26	21	34	71	49
19	20	23	38	69	57
20	32	27	67	72	49
21	28	28	52	69	42
22	45	27	58	74	51
23	41	64	68	70	69

Hunua

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	42	12	16	19	51
1	47	11	16	20	55
2	47	11	16	30	51
3	48	11	16	22	55
4	44	11	19	24	59
5	48	14	17	32	58
6	47	21	20	39	59
7	44	46	51	62	61
8	47	48	47	66	54
9	47	60	52	64	59
10	45	52	60	62	62
11	54	41	59	61	56
12	53	45	62	69	56
13	51	45	65	63	59
14	47	52	56	65	55
15	50	52	60	68	50
16	46	45	54	61	52
17	50	45	55	57	62
18	49	49	57	60	59
19	45	42	53	58	57
20	46	42	53	54	52
21	43	43	49	54	50
22	11	45	53	56	43
23	12	42	18	49	39

Flat Bush

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	21	47	40	50	53
1	23	47	42	50	48
2	24	44	42	48	50
3	20	49	44	51	49
4	30	45	41	51	44
5	50	48	43	50	51
6	52	52	49	53	58
7	64	58	59	66	65
8	69	65	69	68	69
9	66	68	70	67	69
10	66	69	62	66	71
11	67	70	62	66	72
12	66	66	63	66	68
13	66	63	65	66	65
14	64	65	64	66	66
15	62	65	59	70	66
16	65	60	58	69	49
17	62	58	61	67	55
18	54	57	58	67	51
19	53	57	60	65	49
20	54	56	61	60	45
21	56	56	59	62	50
22	58	57	57	57	47
23	47	48	51	54	39

Bruce McLaren

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	31	39	43	44	43
1	30	43	41	44	43
2	31	41	37	41	39
3	30	41	39	42	41
4	27	41	42	44	42
5	40	44	47	48	50
6	52	58	58	64	59
7	68	71	71	79	70
8	73	77	77	83	78
9	76	80	76	82	81
10	77	78	72	80	81
11	74	73	75	80	82
12	69	68	74	79	82
13	70	64	74	80	83
14	67	62	68	79	85
15	66	60	66	82	78
16	66	63	69	81	74
17	68	71	74	80	73
18	69	71	75	80	76
19	67	67	73	77	72
20	57	63	66	70	68
21	53	57	61	61	62
22	44	50	55	55	52
23	42	48	49	48	46

Marsden Point

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	614	672	605	656	606
1	623	667	625	639	606
2	623	667	631	654	622
3	624	666	633	640	632
4	623	663	634	656	632
5	624	649	635	648	631
6	623	650	630	651	631
7	623	650	634	647	630
8	623	628	632	626	628
9	614	626	621	625	632
10	574	639	615	623	630
11	599	637	622	622	636
12	608	628	627	622	631
13	633	619	614	624	637
14	603	613	618	622	646
15	641	625	628	622	647
16	691	620	631	623	641
17	697	641	636	622	641
18	725	631	639	622	641
19	693	626	641	612	635
20	669	625	640	613	635
21	666	613	639	606	641
22	666	598	644	606	642
23	670	597	642	606	637

Waitoki

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	8	11	8	14	13
1	4	3	5	4	6
2	3	4	6	6	9
3	4	5	3	6	7
4	3	7	5	7	4
5	10	10	9	12	12
6	22	24	23	27	25
7	39	39	37	45	41
8	54	46	41	60	52
9	49	38	38	56	46
10	35	42	33	48	46
11	30	28	40	38	46
12	26	24	33	31	38
13	29	24	25	28	39
14	22	23	22	30	40
15	19	20	21	30	37
16	21	18	24	37	38
17	34	29	38	50	45
18	46	46	59	60	55
19	50	50	58	62	55
20	44	44	49	54	48
21	35	35	41	43	39
22	23	23	29	30	29
23	16	16	17	19	19

Glenbrook

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	128	128	239	207	143
1	146	117	196	209	106
2	158	130	201	265	104
3	173	139	186	260	90
4	182	175	173	188	111
5	305	247	210	193	114
6	364	212	347	235	113
7	348	209	333	369	198
8	342	309	316	321	284
9	355	336	310	290	325
10	349	332	318	344	378
11	346	309	319	376	416
12	393	237	338	347	374
13	332	235	293	261	348
14	344	300	328	287	329
15	324	357	369	297	277
16	273	343	391	316	261
17	236	295	320	297	266
18	221	286	284	311	272
19	220	275	276	289	272
20	209	280	280	277	273
21	205	351	297	281	269
22	202	330	203	280	297
23	214	229	189	274	282

Westfield

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	440	531	558	572	590
1	422	502	531	561	582
2	394	500	555	527	572
3	427	512	549	542	572
4	477	567	565	551	586
5	582	648	664	632	707
6	880	938	915	950	1,006
7	1,135	1,227	1,099	1,223	1,280
8	1,145	1,285	1,145	1,307	1,351
9	1,021	1,213	1,107	1,255	1,276
10	1,038	1,321	1,063	1,210	1,223
11	1,046	1,172	1,086	1,183	1,228
12	1,017	1,152	1,057	1,151	1,311
13	984	1,117	1,026	1,163	1,330
14	976	1,090	994	1,162	1,257
15	923	1,089	975	1,186	1,247
16	942	1,062	1,069	1,261	1,246
17	1,091	1,132	1,221	1,392	1,312
18	1,179	1,187	1,338	1,463	1,359
19	1,190	1,154	1,310	1,360	1,299
20	1,073	1,096	1,206	1,207	1,173
21	998	998	987	1,088	1,023
22	780	807	880	867	840
23	616	650	667	657	648

Warkworth

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	46	49	47	53	66
1	53	58	54	68	69
2	61	55	62	73	73
3	51	64	52	74	75
4	67	61	64	84	82
5	73	71	66	83	66
6	69	71	74	88	70
7	54	54	59	86	66
8	46	41	48	76	55
9	24	33	26	38	27
10	64	62	55	53	26
11	75	75	67	48	52
12	74	70	75	57	59
13	73	66	63	61	82
14	56	55	38	37	63
15	33	42	32	25	44
16	19	24	22	35	43
17	33	14	45	81	63
18	5	8	15	48	47
19	3	5	22	48	48
20	4	7	52	57	49
21	6	15	54	53	50
22	14	20	45	59	56
23	25	27	61	67	59

Tuakau

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	12	51	73	73	69
1	11	48	59	63	72
2	10	49	57	59	58
3	12	39	53	58	56
4	10	27	61	56	62
5	19	35	85	74	90
6	68	60	96	93	122
7	78	88	96	107	123
8	67	95	94	113	107
9	63	59	88	109	99
10	66	56	94	94	113
11	74	71	108	89	105
12	82	71	108	87	85
13	87	67	107	108	79
14	86	52	103	115	84
15	95	63	92	113	93
16	78	79	101	125	92
17	59	72	100	108	90
18	54	72	88	86	80
19	56	68	60	69	62
20	46	62	57	71	61
21	55	68	58	60	59
22	58	73	66	59	55
23	45	79	69	67	58

Papakura

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	474	545	544	563	558
1	469	531	519	563	549
2	464	513	512	541	540
3	459	481	503	540	525
4	458	490	520	554	529
5	490	506	566	597	555
6	528	516	601	638	578
7	579	585	634	697	647
8	602	593	659	693	638
9	592	568	631	635	611
10	567	457	590	631	597
11	544	500	541	620	625
12	535	470	529	608	642
13	529	455	560	641	626
14	526	419	556	655	604
15	525	431	551	662	602
16	527	481	625	660	604
17	553	579	685	667	611
18	594	629	692	668	620
19	595	620	690	654	609
20	594	606	678	644	590
21	583	575	644	622	542
22	575	571	604	585	515
23	564	567	582	565	510

Henderson

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	12	23	39	65	68
1	7	13	20	53	54
2	4	11	21	50	48
3	3	12	12	48	46
4	4	14	12	55	35
5	17	28	37	96	58
6	119	123	126	180	162
7	205	216	220	285	254
8	233	245	262	311	285
9	179	200	205	240	255
10	158	165	169	234	234
11	137	137	165	228	236
12	127	116	152	204	260
13	118	110	139	204	269
14	103	88	139	223	252
15	81	67	133	248	245
16	89	79	175	262	257
17	153	147	250	315	284
18	211	212	313	345	297
19	231	234	319	337	285
20	216	226	300	315	262
21	183	192	258	271	221
22	116	130	175	199	161
23	51	54	112	125	100

Whangarei

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

Maungaturoto

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	38	47	39	52	43
1	27	42	38	56	49
2	21	41	41	62	46
3	19	43	42	52	42
4	20	42	41	34	43
5	38	43	31	29	41
6	38	39	29	34	44
7	40	39	30	40	45
8	39	41	49	41	43
9	40	40	60	46	47
10	40	39	56	40	49
11	48	29	54	39	47
12	59	28	60	41	52
13	57	30	55	40	52
14	61	23	62	38	53
15	64	31	70	42	65
16	66	25	63	38	64
17	60	30	68	29	56
18	45	36	65	33	52
19	26	38	62	30	59
20	25	42	63	33	65
21	29	51	63	40	62
22	31	45	66	36	62
23	37	41	57	39	64

Waikumete

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	119	133	143	157	163
1	106	124	129	149	152
2	96	122	129	145	147
3	101	124	129	146	145
4	110	133	133	154	148
5	155	164	167	187	178
6	231	232	238	257	245
7	295	300	303	329	317
8	307	307	314	336	330
9	268	278	284	308	311
10	250	254	265	298	297
11	233	236	253	293	305
12	227	223	244	284	315
13	220	220	246	287	316
14	208	203	240	297	302
15	206	200	235	305	292
16	212	207	268	318	297
17	258	256	313	350	322
18	290	290	337	362	329
19	288	288	328	348	311
20	267	270	309	322	287
21	240	240	277	288	256
22	195	198	224	233	211
23	158	163	180	184	173

2.2 Central North SystemHamilton Temple View

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	94	96	127	123	124
1	89	90	123	117	122
2	96	86	124	121	118
3	94	88	126	113	124
4	109	98	145	126	138
5	148	145	195	171	183
6	256	255	296	273	292
7	318	337	390	361	369
8	275	275	333	301	308
9	229	235	260	237	247
10	181	191	205	190	199
11	166	165	176	167	170
12	161	172	156	153	152
13	145	182	154	147	136
14	131	169	141	133	142
15	124	165	138	133	140
16	151	189	170	160	157
17	204	248	221	200	196
18	265	310	276	262	242
19	263	310	303	266	239
20	241	285	288	246	218
21	206	232	245	213	188
22	158	173	185	165	147
23	119	131	148	125	109

Tatuanui DF

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	49	51	56	47	58
1	46	46	57	48	58
2	47	42	57	44	57
3	52	49	58	46	62
4	51	51	57	55	58
5	45	52	59	50	56
6	49	54	55	46	52
7	53	56	50	44	54
8	43	49	48	49	52
9	42	49	47	52	59
10	42	47	61	43	50
11	44	43	58	42	48
12	43	44	61	44	56
13	42	49	43	39	56
14	44	46	40	23	41
15	45	55	41	29	22
16	49	55	56	38	32
17	50	46	53	54	42
18	52	51	53	62	42
19	54	57	53	61	52
20	50	53	53	61	53
21	50	50	57	61	53
22	48	57	53	62	63
23	49	58	49	61	60

Waitoa

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	32	61	62	61	62
1	32	60	62	60	61
2	35	63	62	62	60
3	33	60	58	63	62
4	32	56	60	63	58
5	36	55	59	61	53
6	42	56	57	56	51
7	40	58	53	55	54
8	40	53	51	52	55
9	40	47	42	47	58
10	43	46	43	40	57
11	41	52	49	45	56
12	42	50	48	44	57
13	43	46	48	43	56
14	45	47	48	42	55
15	46	49	45	40	52
16	47	49	45	40	52
17	43	50	48	41	50
18	50	55	51	47	47
19	51	58	52	46	49
20	50	60	53	50	53
21	58	65	64	63	63
22	62	61	63	62	61
23	60	61	59	61	56

Cambridge

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	75	82	66	63	67
1	70	62	72	78	67
2	68	71	89	95	80
3	74	58	93	79	83
4	73	58	98	83	90
5	78	66	109	85	92
6	95	71	112	85	99
7	107	88	112	85	106
8	103	83	93	79	93
9	99	78	87	82	91
10	92	68	83	85	91
11	89	67	71	79	80
12	85	53	64	82	85
13	79	63	70	83	78
14	64	71	72	85	47
15	56	77	67	85	46
16	66	91	78	98	57
17	92	97	90	97	71
18	109	102	102	112	87
19	104	102	106	111	84
20	90	95	97	101	78
21	91	96	99	101	82
22	85	80	89	93	88
23	76	77	62	83	82

Kiwitahi (Degussa)

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

Hamilton Te Kowhai

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	29	38	33	34	29
1	26	35	33	30	24
2	24	33	28	28	25
3	23	34	27	28	25
4	24	34	29	29	25
5	30	42	42	39	35
6	79	93	101	100	91
7	133	156	177	173	162
8	116	128	138	141	140
9	96	100	103	107	103
10	76	82	80	83	80
11	66	74	70	71	71
12	62	70	63	64	64
13	60	70	59	60	58
14	56	66	58	56	57
15	55	60	57	53	55
16	59	65	59	56	58
17	75	86	76	67	68
18	107	126	108	98	93
19	112	132	116	109	96
20	102	118	110	99	89
21	84	93	88	80	74
22	63	67	64	60	57
23	48	44	44	39	41

Te Rapa Cogen

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	296	576	596	940	608
1	284	572	584	953	612
2	288	576	588	962	616
3	292	576	592	957	616
4	284	556	588	964	616
5	436	560	588	969	612
6	804	572	600	1,001	624
7	804	588	632	1,000	628
8	784	588	640	968	624
9	752	592	644	960	632
10	740	568	608	936	600
11	732	560	580	944	600
12	740	560	604	952	616
13	476	584	604	940	600
14	432	568	648	820	588
15	496	560	768	564	560
16	532	536	760	524	564
17	532	552	896	636	572
18	536	568	920	588	596
19	552	564	920	580	612
20	568	572	940	580	608
21	572	576	932	584	596
22	572	584	932	608	596
23	572	600	928	604	604

Morrinsville DF

Hour	21-Aug-17	22-Aug-17	23-Aug-17	24-Aug-17	25-Aug-17
0	38	40	41	5	4
1	38	39	41	8	4
2	39	41	41	7	4
3	40	40	41	8	5
4	41	50	40	10	4
5	40	53	46	8	9
6	40	40	51	7	6
7	39	41	49	6	8
8	40	43	51	5	5
9	39	37	51	7	2
10	34	15	57	12	6
11	13	16	57	14	14
12	14	17	58	12	18
13	16	33	57	12	19
14	17	38	37	12	16
15	38	41	22	13	17
16	36	48	24	5	8
17	36	48	25	4	4
18	36	50	24	4	4
19	37	40	13	4	4
20	36	40	6	4	4
21	36	40	4	4	4
22	37	41	4	4	4
23	37	43	5	5	4

2.3 Central South SystemNew Plymouth

Hour	26-Dec-16	27-Dec-16	28-Dec-16	29-Dec-16	30-Dec-16
0	25	27	30	32	39
1	26	27	29	30	39
2	29	27	25	30	39
3	26	30	26	30	42
4	27	29	34	36	45
5	39	36	42	42	57
6	47	46	58	59	73
7	63	67	68	71	80
8	70	80	78	85	81
9	66	79	69	83	71
10	57	69	62	73	66
11	51	61	57	69	60
12	48	54	53	70	55
13	40	48	46	68	53
14	38	44	45	62	52
15	39	48	50	58	56
16	42	53	57	64	62
17	49	57	63	70	69
18	53	63	65	71	67
19	52	60	63	65	65
20	47	52	58	62	59
21	41	47	51	56	55
22	36	39	43	50	47
23	27	34	36	45	40

Pokuru Offtake

Hour	26-Dec-16	27-Dec-16	28-Dec-16	29-Dec-16	30-Dec-16
0	660	500	524	636	664
1	664	516	524	636	664
2	656	516	520	580	664
3	672	516	524	564	664
4	668	516	524	564	668
5	672	516	520	564	668
6	672	516	520	564	628
7	668	516	524	660	596
8	556	520	520	660	664
9	476	516	524	660	728
10	480	520	520	660	852
11	480	516	520	660	940
12	480	516	656	660	832
13	472	516	724	656	996
14	452	520	708	660	1,136
15	452	512	680	660	1,120
16	452	520	668	688	1,116
17	120	516	660	688	1,120
18	16	600	664	692	1,112
19	8	776	700	680	1,136
20	0	776	696	676	1,120
21	0	736	668	672	1,096
22	0	700	652	664	1,076
23	0	680	640	664	1,036

2.4 Bay of Plenty SystemLichfield DF

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	59	53	75	48	81
1	64	66	74	45	81
2	73	70	70	42	82
3	66	75	56	48	82
4	67	86	64	44	92
5	70	72	57	52	89
6	44	67	48	40	87
7	39	66	51	44	108
8	50	64	57	55	106
9	60	59	62	39	95
10	55	54	73	48	106
11	59	60	75	53	86
12	59	77	68	53	71
13	52	76	68	65	74
14	66	75	61	74	80
15	62	72	62	78	85
16	76	75	67	79	85
17	70	60	58	84	86
18	70	54	48	75	83
19	54	52	49	82	80
20	58	61	48	80	85
21	58	64	47	81	88
22	53	67	47	73	81
23	30	71	54	83	89

Lichfield 2

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	151	147	150	149	156
1	154	151	158	157	159
2	155	162	155	157	160
3	164	160	157	161	160
4	157	156	156	158	168
5	156	160	153	161	159
6	151	159	152	159	156
7	153	156	154	159	157
8	150	156	160	160	170
9	152	154	159	167	161
10	148	155	159	152	165
11	154	160	155	149	154
12	149	154	153	152	158
13	156	155	158	152	158
14	113	163	155	148	156
15	70	163	153	150	154
16	59	160	159	146	157
17	54	158	153	153	159
18	39	151	155	148	152
19	36	157	161	158	153
20	43	158	158	161	162
21	134	157	155	163	151
22	145	159	154	157	160
23	146	151	149	157	151

Edgecumbe DF

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	176	163	198	198	177
1	173	160	194	201	202
2	182	161	194	187	201
3	175	164	185	172	198
4	174	166	171	180	197
5	175	170	159	189	199
6	175	176	159	180	191
7	183	177	161	179	180
8	176	166	157	190	160
9	198	164	159	189	166
10	200	155	177	192	138
11	206	148	193	183	137
12	200	167	193	187	146
13	186	180	185	189	157
14	183	179	187	198	180
15	186	197	204	198	196
16	191	195	193	201	195
17	191	188	186	196	201
18	173	191	181	188	198
19	163	195	181	187	190
20	159	198	183	173	195
21	169	197	191	170	193
22	174	193	194	170	192
23	165	199	191	169	193

Reporoa

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	79	81	47	82	76
1	78	83	0	83	77
2	81	83	11	84	80
3	82	84	39	84	79
4	81	83	51	83	79
5	80	84	60	73	79
6	81	83	79	55	82
7	80	76	74	32	82
8	79	78	78	29	80
9	82	82	75	32	81
10	81	77	82	26	81
11	82	82	77	27	81
12	81	84	79	24	78
13	80	82	83	24	76
14	81	84	81	28	77
15	86	86	80	52	59
16	81	86	80	55	56
17	79	82	76	47	56
18	79	82	75	44	55
19	72	82	74	40	58
20	72	83	77	39	53
21	75	82	76	48	68
22	75	79	80	70	84
23	74	80	79	74	81

Whakatane

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	99	116	106	98	106
1	100	114	105	95	107
2	100	111	104	97	106
3	100	111	106	95	111
4	104	113	110	98	112
5	107	113	106	101	114
6	110	110	109	105	114
7	108	111	111	105	111
8	107	114	113	103	111
9	105	115	112	105	103
10	109	112	115	103	39
11	108	113	114	103	69
12	109	93	111	99	102
13	110	37	111	100	102
14	109	41	107	102	114
15	109	36	108	103	104
16	107	105	105	100	108
17	104	111	103	101	109
18	106	111	102	100	104
19	104	108	101	100	105
20	106	110	99	103	102
21	119	106	99	105	103
22	122	105	95	109	103
23	117	108	97	105	105

Tirau DF

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	24	6	6	41	17
1	24	8	6	32	32
2	24	6	5	32	39
3	28	11	4	38	27
4	22	11	7	36	18
5	36	39	5	43	45
6	49	47	27	36	64
7	58	59	32	34	68
8	55	58	25	40	62
9	54	73	30	39	62
10	48	75	39	39	61
11	37	67	45	42	59
12	42	56	76	60	78
13	38	54	84	71	75
14	25	41	79	68	76
15	16	32	79	70	79
16	10	25	82	70	77
17	10	25	81	72	75
18	8	25	81	72	72
19	7	26	79	73	72
20	6	27	73	71	72
21	8	26	65	59	72
22	6	26	61	61	73
23	6	25	49	61	71

Pyes Pa

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

Kinleith (CHH Mill) 2

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	545	630	262	376	492
1	524	573	311	317	473
2	569	561	255	348	493
3	588	603	331	414	569
4	551	706	239	334	501
5	515	703	250	307	463
6	555	662	238	285	457
7	570	610	249	268	440
8	633	605	232	274	259
9	578	445	205	262	330
10	591	329	237	283	427
11	582	496	220	299	440
12	724	514	232	310	423
13	640	477	252	316	424
14	659	483	280	374	513
15	442	407	275	320	547
16	393	369	367	487	589
17	430	319	378	542	786
18	420	328	416	541	938
19	383	399	447	553	862
20	388	395	464	553	798
21	487	481	374	557	797
22	503	308	348	496	628
23	644	278	309	446	520

Kawerau (Tasman)

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	71	78	79	74	70
1	71	79	78	74	70
2	72	79	77	74	69
3	72	79	77	74	69
4	72	79	76	75	69
5	72	79	75	75	69
6	72	79	75	76	69
7	72	78	76	75	70
8	72	75	76	74	70
9	72	75	76	73	71
10	71	76	76	73	72
11	71	75	76	72	71
12	74	74	77	71	70
13	74	73	75	70	69
14	74	74	74	69	67
15	74	74	75	70	67
16	75	74	75	67	68
17	76	75	75	70	69
18	76	74	74	71	70
19	76	73	74	71	70
20	76	73	74	69	70
21	77	75	74	70	72
22	78	78	74	70	72
23	78	78	74	69	72

Tauranga

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	0	1	1	0	0
1	0	0	0	0	0
2	0	0	1	0	0
3	0	0	0	0	0
4	7	6	7	5	9
5	18	18	20	20	25
6	38	36	37	39	41
7	40	39	35	38	44
8	32	33	34	35	37
9	29	29	30	35	35
10	29	29	32	36	34
11	24	26	31	35	34
12	24	26	26	32	30
13	22	23	23	28	23
14	17	22	23	22	26
15	17	26	23	24	29
16	22	30	27	25	29
17	23	41	32	28	32
18	26	39	33	28	33
19	21	29	26	27	28
20	13	19	20	19	21
21	7	11	12	10	11
22	4	5	7	10	5
23	1	2	2	2	2

Kawerau (Caxton)

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

Gisborne

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	25	22	33	36	42
1	14	22	34	34	42
2	19	22	33	36	43
3	17	22	44	44	52
4	36	34	38	42	45
5	34	35	46	48	53
6	45	51	53	63	69
7	46	54	57	67	70
8	41	52	59	63	69
9	43	45	58	66	60
10	37	46	59	64	58
11	39	49	61	64	55
12	41	49	61	60	50
13	38	47	54	59	59
14	33	46	56	58	66
15	36	42	56	60	60
16	34	43	54	56	49
17	33	43	52	57	45
18	35	49	51	59	66
19	30	44	48	55	62
20	28	34	47	50	47
21	23	34	42	46	39
22	22	31	40	44	36
23	20	29	37	41	33

Mount Maunganui

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	59	56	65	70	62
1	63	60	66	74	67
2	74	63	64	78	68
3	73	65	68	78	65
4	70	78	70	78	65
5	78	90	83	96	70
6	94	96	98	110	87
7	95	96	101	111	92
8	90	102	107	103	95
9	90	95	107	107	89
10	91	92	112	106	86
11	87	91	111	99	90
12	91	84	100	99	93
13	98	87	98	90	85
14	91	90	93	88	85
15	97	91	78	78	84
16	93	94	82	76	81
17	81	92	85	83	73
18	77	92	84	84	79
19	73	86	84	79	77
20	66	83	80	76	69
21	60	74	73	68	64
22	57	64	66	66	62
23	57	64	65	62	61

Rotorua

Hour	25-Sep-17	26-Sep-17	27-Sep-17	28-Sep-17	29-Sep-17
0	23	19	23	20	25
1	22	17	25	20	25
2	21	17	23	21	26
3	21	17	25	23	29
4	31	28	38	36	42
5	50	46	54	52	62
6	75	72	83	81	88
7	64	69	73	77	85
8	57	60	68	70	75
9	56	58	65	66	71
10	50	56	58	70	68
11	52	58	58	65	64
12	47	57	51	62	61
13	42	50	48	59	51
14	37	51	44	54	46
15	38	59	43	47	40
16	44	73	48	50	49
17	53	74	54	57	54
18	54	70	60	61	62
19	50	64	56	62	60
20	41	51	50	56	52
21	29	38	35	44	40
22	21	29	26	34	28
23	19	25	21	25	23

2.5 South SystemParaparaumu

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	8	7	7	12	10
1	7	7	7	10	9
2	6	8	7	10	9
3	7	9	8	10	9
4	9	13	11	14	12
5	17	21	19	22	19
6	29	33	33	36	31
7	40	48	43	45	43
8	43	53	50	55	50
9	35	44	50	58	52
10	29	32	47	58	48
11	25	25	42	54	46
12	21	23	38	56	41
13	19	21	33	57	40
14	17	16	33	55	40
15	17	17	35	56	42
16	22	23	47	58	47
17	36	39	58	63	54
18	43	46	64	64	54
19	41	45	61	60	52
20	37	40	55	51	46
21	29	30	44	40	38
22	18	17	27	24	25
23	10	9	15	13	15

Hawera

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	7	8	7	12	19
1	6	7	7	11	16
2	6	7	6	10	16
3	6	7	6	10	16
4	9	10	12	12	21
5	25	27	26	32	36
6	32	35	36	40	43
7	39	42	51	65	52
8	43	42	51	68	58
9	35	35	51	75	59
10	32	33	60	70	59
11	31	30	61	53	58
12	29	29	66	66	59
13	27	37	65	50	58
14	25	35	56	48	59
15	24	37	47	46	56
16	27	45	46	45	57
17	35	38	50	45	53
18	38	21	51	47	51
19	35	33	47	46	52
20	29	30	43	42	46
21	21	27	34	37	39
22	13	17	22	31	28
23	10	10	16	21	22

Wanganui

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	85	68	114	81	118
1	75	61	102	80	102
2	77	48	85	73	88
3	77	44	88	67	91
4	95	50	94	60	94
5	109	74	117	84	111
6	135	111	162	124	143
7	152	138	187	149	159
8	145	146	193	161	165
9	130	132	171	162	168
10	116	118	168	160	155
11	101	107	162	171	145
12	97	105	150	168	129
13	95	99	144	172	121
14	90	98	142	176	112
15	86	100	141	169	120
16	99	123	168	187	146
17	133	155	192	196	164
18	147	164	191	203	172
19	134	181	183	214	165
20	123	183	168	205	147
21	112	166	147	181	125
22	98	143	111	153	96
23	83	123	91	127	80

Okaiawa (Taranaki) by products

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	26	55	67	85	50
1	26	50	73	79	49
2	26	56	73	65	63
3	25	46	66	72	68
4	23	41	63	81	59
5	23	39	61	68	55
6	22	42	71	75	51
7	23	41	71	76	52
8	28	60	72	70	63
9	25	57	59	64	72
10	24	68	52	48	68
11	23	63	37	2	58
12	23	40	38	0	69
13	29	37	38	0	57
14	24	28	36	0	44
15	23	24	35	7	17
16	26	25	32	32	7
17	24	30	32	32	4
18	23	5	43	36	14
19	37	31	55	34	45
20	44	39	55	35	45
21	58	47	71	33	39
22	49	53	72	37	42
23	46	55	75	29	49

Marton

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	30	8	36	5	5
1	28	8	38	5	4
2	31	7	33	5	3
3	30	16	35	5	13
4	32	26	32	5	19
5	32	28	31	5	27
6	34	31	29	8	31
7	33	34	24	8	33
8	34	35	23	10	34
9	31	33	22	10	34
10	28	31	17	10	35
11	21	31	14	9	35
12	18	31	12	10	34
13	17	32	13	10	33
14	9	32	13	11	34
15	11	33	12	12	35
16	9	35	12	9	36
17	11	37	14	9	38
18	12	39	13	9	40
19	11	40	13	10	40
20	10	39	11	9	41
21	10	40	8	9	43
22	8	40	7	7	42
23	8	38	5	6	36

Palmerston North

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	57	59	64	79	81
1	59	57	58	72	70
2	63	61	63	69	68
3	61	65	66	74	71
4	78	81	84	87	83
5	108	116	120	126	118
6	187	200	199	214	195
7	244	267	260	275	261
8	235	271	263	294	267
9	229	245	246	292	265
10	217	215	244	292	254
11	200	189	237	293	244
12	174	161	222	292	229
13	165	161	209	285	224
14	149	137	192	269	218
15	134	138	190	254	218
16	147	163	225	268	227
17	188	208	260	273	245
18	211	225	269	277	244
19	199	210	246	260	222
20	180	188	220	234	201
21	145	156	185	190	173
22	108	115	137	139	132
23	74	81	99	98	95

Longburn

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	23	31	24	28	28
1	25	27	26	27	28
2	26	29	25	27	30
3	22	29	25	23	28
4	25	29	27	26	27
5	26	32	27	24	29
6	32	40	34	38	34
7	35	34	36	40	29
8	37	35	36	40	34
9	38	35	38	37	37
10	33	36	40	39	38
11	32	33	41	38	37
12	35	32	42	34	35
13	27	32	40	33	30
14	27	24	32	28	27
15	29	26	32	32	29
16	29	26	34	35	30
17	30	25	35	34	31
18	31	30	29	31	30
19	31	28	31	34	31
20	30	27	31	33	27
21	31	26	30	28	27
22	28	26	29	32	26
23	31	24	28	29	24

Levin

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	15	26	25	35	32
1	13	24	23	33	32
2	12	25	22	31	35
3	16	22	18	25	32
4	24	23	24	29	27
5	35	42	43	47	38
6	53	60	57	62	50
7	58	71	61	69	62
8	64	74	74	81	70
9	64	70	73	76	70
10	58	62	75	82	68
11	58	61	75	84	64
12	52	54	71	80	50
13	54	57	69	78	47
14	48	51	57	67	44
15	42	46	55	64	45
16	45	41	58	61	49
17	48	50	62	66	54
18	51	51	61	65	55
19	51	49	59	59	54
20	49	44	56	52	50
21	43	43	49	48	45
22	37	35	42	41	37
23	30	28	38	32	33

Belmont

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	98	103	120	146	124
1	89	97	114	135	113
2	95	101	114	134	116
3	97	105	115	138	119
4	110	127	128	153	132
5	163	188	197	212	185
6	300	347	341	353	318
7	369	439	428	449	405
8	354	449	432	452	418
9	316	386	437	445	408
10	286	315	422	448	393
11	252	267	389	443	378
12	210	240	376	424	357
13	191	206	378	436	357
14	176	193	377	429	352
15	180	192	389	422	344
16	216	246	408	436	357
17	309	339	465	473	404
18	359	388	498	474	417
19	348	372	473	442	382
20	317	336	421	388	344
21	259	287	355	315	302
22	200	201	258	220	229
23	142	143	182	154	166

Feilding

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	14	15	18	21	19
1	13	16	18	21	17
2	13	18	19	20	18
3	13	16	21	22	18
4	15	18	22	22	21
5	20	22	26	26	22
6	32	32	35	37	38
7	42	45	46	48	45
8	43	44	61	54	55
9	49	40	61	66	57
10	45	32	53	64	56
11	38	29	53	66	50
12	37	33	50	66	41
13	33	37	48	67	39
14	31	33	46	65	39
15	29	34	42	53	33
16	29	42	45	46	36
17	36	40	48	46	43
18	37	38	48	47	41
19	35	34	42	44	37
20	31	32	38	38	36
21	27	28	34	34	33
22	22	23	26	25	26
23	19	19	22	21	22

Hastings

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	141	252	223	242	233
1	128	239	212	236	225
2	127	240	221	224	222
3	177	230	240	223	239
4	207	242	262	243	251
5	237	272	287	290	266
6	300	319	326	324	320
7	294	389	364	347	361
8	328	379	353	385	386
9	302	344	365	359	415
10	296	330	352	359	416
11	293	313	349	362	371
12	291	284	342	350	318
13	298	267	342	349	298
14	287	273	324	327	275
15	279	273	321	290	293
16	257	271	326	292	298
17	281	282	313	268	273
18	281	287	315	290	272
19	289	278	306	280	247
20	272	283	296	268	241
21	259	260	294	274	228
22	233	235	269	249	205
23	230	223	254	238	187

Wellington (Tawa)

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	142	152	172	227	213
1	133	144	170	209	203
2	136	141	172	217	205
3	142	154	181	231	206
4	181	188	221	268	241
5	276	289	318	355	324
6	504	532	576	589	552
7	715	755	798	807	760
8	671	746	820	850	785
9	567	614	748	789	734
10	524	547	725	769	706
11	455	486	706	763	701
12	403	425	691	744	685
13	379	403	690	742	673
14	349	377	681	718	647
15	375	370	684	728	639
16	438	445	741	762	648
17	536	548	794	804	695
18	559	578	801	795	678
19	535	562	773	740	625
20	486	507	694	650	566
21	405	428	581	534	480
22	288	306	406	387	357
23	186	203	271	260	248

Waitangirua (Hutt Valley)

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	15	18	20	27	23
1	13	17	19	25	23
2	12	17	19	25	22
3	13	19	21	26	23
4	16	22	25	31	24
5	34	40	45	50	42
6	71	79	81	86	78
7	86	96	100	103	92
8	78	91	100	103	95
9	67	76	100	108	73
10	59	60	93	109	76
11	49	53	87	103	80
12	40	48	87	102	86
13	36	40	88	99	84
14	31	36	84	96	77
15	31	39	88	97	77
16	44	49	99	105	84
17	64	72	112	114	94
18	74	84	115	114	96
19	70	83	110	102	87
20	62	72	97	91	76
21	51	58	76	72	64
22	36	39	55	50	45
23	22	26	37	32	29

Pauatahanui 1

Hour	10-Jul-17	11-Jul-17	12-Jul-17	13-Jul-17	14-Jul-17
0	6	6	6	8	7
1	6	6	6	8	7
2	5	7	7	7	7
3	6	7	7	8	7
4	6	7	7	9	7
5	9	12	12	14	11
6	20	24	24	26	22
7	22	27	28	30	26
8	20	23	27	29	26
9	15	17	27	30	24
10	11	12	23	29	22
11	9	9	21	28	21
12	7	8	21	28	21
13	7	8	21	27	21
14	7	7	22	27	21
15	7	7	24	28	21
16	9	10	29	32	25
17	17	19	37	37	31
18	22	26	41	38	33
19	22	25	38	36	31
20	19	23	34	31	27
21	16	18	27	24	23
22	11	11	17	15	16
23	7	7	11	9	9

2.6 Frankley Road SystemTaranaki Combined Cycle

Hour	5-Jun-17	6-Jun-17	7-Jun-17	8-Jun-17	9-Jun-17
0	2,464	2,544	1,568	1,656	2,680
1	2,496	2,464	1,488	1,904	2,680
2	2,376	2,480	1,504	1,904	2,544
3	2,304	2,496	1,504	1,912	2,520
4	2,457	2,480	1,552	1,912	2,608
5	2,504	2,472	1,608	1,920	2,632
6	2,464	2,520	1,544	1,928	2,544
7	1,736	2,552	1,560	1,824	2,552
8	2,448	2,472	1,536	1,736	2,560
9	2,480	2,464	1,520	1,728	2,544
10	2,448	2,608	1,288	1,840	2,528
11	2,408	2,496	1,216	1,849	2,024
12	2,400	2,416	1,296	1,720	1,480
13	2,416	2,536	1,400	1,696	1,456
14	2,440	2,512	1,432	1,704	1,440
15	2,432	2,496	1,448	1,696	1,472
16	2,464	2,480	1,376	1,712	1,488
17	2,481	2,520	1,304	1,752	1,520
18	2,440	2,544	1,272	1,712	1,504
19	2,440	2,504	1,232	1,752	1,512
20	2,512	1,752	1,248	1,928	1,608
21	2,512	1,208	1,336	2,584	1,696
22	2,520	1,344	1,464	2,680	1,776
23	2,536	1,520	1,512	2,680	1,816

Kaimiro DP

Hour	5-Jun-17	6-Jun-17	7-Jun-17	8-Jun-17	9-Jun-17
0	215	182	60	62	62
1	224	196	61	61	62
2	229	208	64	62	62
3	232	216	63	62	63
4	230	223	64	62	62
5	230	229	63	62	63
6	230	227	62	61	63
7	230	225	61	62	62
8	229	221	62	62	63
9	229	213	62	62	62
10	229	136	62	61	62
11	229	56	62	62	62
12	229	56	61	62	62
13	228	60	62	61	62
14	228	60	62	62	62
15	225	58	62	62	62
16	219	57	61	61	61
17	214	59	62	62	62
18	208	61	62	62	62
19	198	60	61	61	61
20	185	60	62	62	62
21	172	59	62	61	61
22	176	60	61	62	62
23	178	60	62	62	61

Stratford 2

Hour	5-Jun-17	6-Jun-17	7-Jun-17	8-Jun-17	9-Jun-17
0	436	924	1,958	1,722	1,576
1	0	940	1,044	1,540	1,624
2	0	884	972	1,400	1,644
3	0	844	974	1,396	1,548
4	0	952	976	1,464	1,582
5	32	1,376	1,704	1,874	1,938
6	684	1,908	1,944	1,902	1,956
7	1,552	1,952	1,951	1,970	1,954
8	1,604	1,956	1,954	1,976	1,938
9	1,868	1,958	1,958	1,978	1,976
10	1,918	1,962	1,958	1,980	1,944
11	1,834	1,962	1,958	1,980	1,984
12	1,806	1,962	1,960	1,980	1,958
13	1,850	1,946	1,958	1,972	1,974
14	1,810	1,918	1,958	1,974	1,908
15	1,830	1,940	1,958	1,974	1,828
16	1,946	1,930	1,926	1,964	1,896
17	1,948	1,938	1,922	1,892	1,920
18	1,954	1,682	1,808	1,764	1,848
19	1,956	1,944	1,952	1,864	1,860
20	1,904	1,952	1,960	1,954	1,760
21	1,708	1,952	1,964	1,970	1,691
22	988	1,954	1,880	1,860	1,708
23	892	1,952	1,750	1,584	1,034

AUP

Hour	5-Jun-17	6-Jun-17	7-Jun-17	8-Jun-17	9-Jun-17
0	906	895	893	897	899
1	902	899	897	901	899
2	906	893	894	905	899
3	908	895	893	902	895
4	903	896	896	895	899
5	907	896	896	904	895
6	905	902	893	896	900
7	905	895	893	900	896
8	904	897	896	901	893
9	901	895	889	899	734
10	904	891	890	898	649
11	898	894	892	893	660
12	903	890	893	897	659
13	898	891	897	898	660
14	897	891	887	897	659
15	899	891	894	893	779
16	897	891	892	890	859
17	898	890	894	895	886
18	898	881	894	891	889
19	892	893	898	892	889
20	896	889	894	896	892
21	897	896	899	894	891
22	897	898	900	898	895
23	898	896	901	897	892

2.7 Maui SystemPirongia

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	88	84	87	64	71
1	77	90	89	85	76
2	76	90	81	86	74
3	73	87	77	89	87
4	77	84	78	85	89
5	77	86	91	82	88
6	77	84	68	78	86
7	48	63	53	77	84
8	44	55	46	76	82
9	43	68	49	73	74
10	55	81	56	74	72
11	63	82	67	75	71
12	49	86	63	68	73
13	49	81	74	60	76
14	71	78	77	58	73
15	75	79	78	58	67
16	86	81	76	72	55
17	85	86	77	76	70
18	83	90	78	71	77
19	87	86	83	66	81
20	82	86	81	57	87
21	83	87	84	68	85
22	81	87	75	69	79
23	87	89	78	67	79

Ngatimaru Road

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	5,943	5,939	5,939	5,941	5,940
1	5,930	5,940	5,938	5,941	5,938
2	5,937	5,941	5,941	5,941	5,938
3	5,937	5,940	5,941	5,942	5,936
4	5,935	5,942	5,939	5,943	5,938
5	5,933	5,942	5,940	5,940	5,934
6	5,930	5,941	5,940	5,936	5,932
7	5,934	5,940	5,940	5,930	5,931
8	5,938	5,944	5,939	5,942	5,936
9	5,940	5,943	5,943	5,939	5,939
10	5,932	5,944	5,946	5,941	5,939
11	5,941	5,943	5,945	5,943	5,940
12	5,941	5,940	5,945	5,943	5,941
13	5,941	5,942	5,945	5,944	5,940
14	5,941	5,943	5,941	5,942	5,941
15	5,942	5,941	5,944	5,942	5,937
16	5,942	5,943	5,948	5,943	5,938
17	5,941	5,943	5,935	5,944	5,939
18	5,938	5,936	5,937	5,936	5,940
19	5,938	5,940	5,938	5,942	5,935
20	5,937	5,938	5,940	5,939	5,939
21	5,937	5,941	5,940	5,938	5,937
22	5,939	5,942	5,938	5,940	5,935
23	5,940	5,946	5,939	5,936	5,938

Te Kuiti South

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

Rotowaro

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	2,408	2,840	3,004	2,968	2,784
1	2,428	2,780	2,896	2,856	2,772
2	2,468	2,748	2,876	2,804	2,688
3	2,568	2,820	2,840	2,772	2,628
4	2,772	2,952	2,796	2,908	2,752
5	3,144	3,340	3,128	3,192	3,116
6	3,588	3,712	3,632	3,552	3,540
7	3,748	3,900	3,860	3,756	3,772
8	3,780	3,900	3,864	3,652	3,712
9	3,804	3,860	3,820	3,492	3,664
10	3,780	3,864	3,872	3,464	3,624
11	3,680	3,820	3,792	3,448	3,520
12	3,568	3,828	3,728	3,356	3,520
13	3,508	3,748	3,576	3,324	3,476
14	3,388	3,620	3,504	3,268	3,392
15	3,440	3,608	3,560	3,220	3,360
16	3,452	3,640	3,564	3,272	3,388
17	3,452	3,680	3,596	3,408	3,436
18	3,520	3,652	3,640	3,464	3,384
19	3,512	3,656	3,620	3,372	3,256
20	3,428	3,552	3,596	3,392	3,152
21	3,256	3,376	3,480	3,316	3,052
22	3,088	3,224	3,208	3,048	2,848
23	2,920	3,104	3,048	2,820	2,736

Huntly Power Station

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	601	565	516	166	1,539
1	605	571	456	0	1,540
2	614	578	493	0	1,540
3	807	774	557	0	1,539
4	1,285	976	875	110	1,699
5	2,305	2,226	1,116	707	1,905
6	2,616	2,489	1,091	947	1,900
7	2,100	2,309	1,192	1,062	2,217
8	1,490	2,119	1,040	726	2,232
9	1,347	1,627	868	666	2,574
10	1,245	1,283	1,201	884	2,575
11	1,184	1,275	1,211	1,071	2,721
12	946	1,624	1,281	1,370	2,281
13	940	1,726	1,164	1,575	1,740
14	1,076	2,324	1,119	1,671	1,548
15	1,842	2,201	1,213	1,894	2,021
16	2,175	2,360	1,207	1,923	2,548
17	2,047	2,084	1,212	2,071	2,365
18	2,338	2,486	1,573	2,442	2,196
19	2,106	2,560	1,601	3,048	1,930
20	1,781	1,976	1,570	2,624	1,911
21	753	976	1,326	1,703	1,719
22	358	544	867	1,639	1,126
23	517	514	449	1,537	1,005

Pokuru

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	928	640	799	778	1,011
1	981	724	696	738	1,138
2	995	731	687	730	1,005
3	1,025	722	684	712	990
4	1,011	722	707	710	955
5	960	725	713	717	998
6	936	767	725	752	993
7	946	817	784	789	1,022
8	915	812	953	936	1,026
9	854	823	1,081	1,087	1,020
10	850	848	1,084	1,059	1,053
11	849	844	1,081	1,026	1,058
12	843	1,013	1,044	1,033	1,047
13	823	1,041	1,029	1,005	1,044
14	831	1,055	1,033	964	1,039
15	572	1,039	1,082	1,081	1,019
16	260	930	1,091	1,082	862
17	248	857	1,077	1,093	820
18	261	899	1,084	1,068	856
19	249	907	1,073	1,063	892
20	237	985	1,075	1,062	862
21	217	951	1,065	1,050	833
22	218	900	1,050	1,027	813
23	166	889	1,038	997	814

Bertrand Road

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	4,298	4,313	4,280	4,302	4,262
1	4,286	4,332	4,300	4,317	4,271
2	4,282	4,299	4,304	4,316	4,274
3	4,289	4,298	4,303	4,325	4,282
4	4,282	4,294	4,297	4,323	4,277
5	4,274	4,285	4,304	4,306	4,261
6	4,259	4,274	4,276	4,303	4,274
7	4,252	4,281	4,288	4,298	4,288
8	4,271	4,266	4,284	4,281	4,275
9	4,270	4,279	4,297	4,299	4,274
10	4,299	4,279	4,312	4,300	4,265
11	4,326	4,297	4,267	4,300	4,279
12	4,308	4,311	4,279	4,310	4,299
13	4,314	4,296	4,281	4,301	4,297
14	4,318	4,285	4,284	4,289	4,297
15	4,298	4,276	4,292	4,300	4,312
16	4,285	4,286	4,310	4,285	4,311
17	4,289	4,285	4,318	4,276	4,293
18	4,285	4,285	4,324	4,250	4,278
19	4,295	4,271	4,293	4,243	4,274
20	4,311	4,267	4,300	4,241	4,268
21	4,283	4,280	4,301	4,249	4,274
22	4,290	4,285	4,296	4,268	4,278
23	4,297	4,295	4,309	4,272	4,282

Frankley Road

Hour	28-Nov-16	29-Nov-16	30-Nov-16	1-Dec-16	2-Dec-16
0	2,513	3,983	3,016	3,141	2,272
1	2,479	4,004	2,992	3,153	2,273
2	2,434	3,953	3,015	3,166	2,285
3	2,397	3,876	3,011	3,167	2,291
4	2,329	3,812	3,047	3,138	2,309
5	2,453	3,853	3,083	3,295	2,467
6	3,494	4,225	3,365	4,318	3,260
7	3,699	4,278	3,758	4,605	3,660
8	3,711	4,061	3,778	4,704	3,517
9	3,902	3,831	4,054	4,631	3,451
10	4,670	3,730	3,770	4,737	3,259
11	4,652	4,238	3,486	4,421	3,365
12	4,363	4,400	3,476	4,187	3,674
13	4,383	4,025	3,477	4,019	3,495
14	4,404	3,656	3,505	4,044	3,751
15	4,204	3,467	3,630	4,104	4,164
16	3,635	3,454	3,908	3,766	4,011
17	3,591	3,427	4,171	2,993	3,599
18	3,006	3,391	4,377	2,369	3,060
19	2,803	3,336	3,844	2,206	2,571
20	2,963	3,336	3,969	2,511	2,390
21	3,303	3,350	3,652	2,346	2,431
22	3,663	3,392	3,370	2,284	2,470
23	3,678	3,232	3,262	2,294	2,508