

Daily System Generation Summary on Monday

Monday, April 4, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,027 MW
Distillate	0 MW
Total TNB	2,027 MW
Total IPP	17,075 MW
Total Co-Gen	0 MW
Total System	23,027 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,265	3.10 %
Gas	46,136	12.72 %
Total TNB	57,401	15.82 %
ST-Coal	204,367	56.32 %
LSS	3,688	1.02 %
Gas	95,666	26.37 %
Total IPP	303,721	83.71 %
Co-Gen	1,211	0.33 %
Total Co-Gen	1,211	0.33 %
Total Generation	362,333	99.86 %
PLTG	191	0.05 %
HVDC	-697	-0.19 %
Interconnection	-506	-0.14 %
Net Energy	362,839	100.00 %

Maximum Demand Record

Date: 3/29/2022	18,840 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,713 MW
TNB Generation	3,401 MW
IPP Generation	13,715 MW
Spinning Reserve	1,548 MW
Maximum Demand	17,189 MW
Net Energy	362,839 MWH
Load Factor	87.95 %

Fuel Cost

Total Cost:	96,016,482.97 RM
Cost per Unit	26.50 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	994
Hydro	627
Syncon	258
Thermal	115
Total	1,994

Time Weather Temperature

Afternoon	Hot	35
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	159
Total TNB	187
CBPS	49
EMPP	195
KLPP	60
NPRI	137
PCGP	68
PGLA	83
PLPS	48
SPGP	131
Total IPP	772
Total Gas	959
Total Gas Required	959

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	14146	13441	12954	12559	12384	12643	12677	12596	13360	14948	15652	16101	16154	16080	16898	17122	17182	16627	16024	16169	16778	16963	16548	16090

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, April 27, 2022 12:07:08 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Monday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300					
JMAH	U001	704	706	706	707	706	707	708	706	705	705	705	704	707	707	706	706	706	705	705	705	705	703	707	705	705	707			
JMAH	U002	707	705	705	705	708	703	704	710	707	704	707	705	705	702	707	706	705	706	703	705	707	705	710	705	706	706			
JMHE	U002	899	900	899	851	853	853	849	848	853	850	846	849	852	853	847	850	852	904	958	973	972	970	972	970	971	969	975	973	
JMJG	U001	666	671	667	668	668	669	668	667	668	665	667	671	667	662	667	666	671	666	667	667	666	667	667	666	667	662	670	665	667
JMJG	U002	670	667	671	581	594	599	601	596	601	599	593	604	601	590	589	649	682	683	677	679	681	679	683	682	674	684	679	647	667
JMJG	U003	651	666	666	660	667	660	672	668	667	662	665	658	658	660	657	664	658	665	667	667	666	662	671	664	651	671	666	667	667
JMJG	U005	895	903	853	848	849	852	848	850	850	851	852	848	850	852	849	851	853	891	963	972	971	971	977	970	970	954	947	951	950
PKLG	U003	279	277	278	275	278	274	272	219	203	204	228	258	273	279	278	281	277	276	278	278	275	278	278	277	278	277	278	277	278
PKLG	U004	274	275	277	275	270	273	281	217	200	205	241	262	271	276	276	274	273	274	275	277	273	276	275	274	272	273	276	270	275
PKLG	U006	443	445	443	442	436	441	442	442	444	445	445	445	445	446	446	450	443	442	445	443	443	441	439	436	434	441	445	442	444
TBIN	U001	695	700	701	699	694	698	698	699	699	699	695	697	700	699	699	698	699	698	699	696	697	699	697	698	699	699	699	697	698
TBIN	U003	702	701	701	701	699	697	702	702	700	701	700	702	699	697	702	702	702	700	701	699	700	701	700	701	705	699	703	701	696
TBIN	U004	901	901	852	853	851	854	854	855	853	853	853	854	853	853	851	854	910	937	936	937	937	937	937	936	937	937	937	936	936
Total ST-Coal		8486	8517	8419	8265	8273	8280	8299	8179	8148	8142	8197	8256	8282	8276	8273	8345	8382	8526	8674	8702	8691	8687	8706	8687	8676	8651	8674	8645	8639
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	BLK2	368	301	222	226	226	222	222	223	223	226	226	226	226	221	221	221	286	300	303	365	357	350	364	357	364	364	357	356	356
EMPP	BLK1	709	709	710	711	604	537	412	495	414	490	562	539	567	607	492	466	569	641	710	700	715	707	694	709	705	712	713	702	701
EMPP	BLK2	709	710	710	713	606	534	411	496	416	491	562	538	568	608	492	467	568	639	711	701	715	709	694	710	705	711	712	702	701
GLGR	GT02	93	93	93	93	93	93	93	92	92	93	93	93	93	92	93	93	92	92	93	93	92	93	93	92	93	93	93	93	93
GLGR	ST1C	40	40	40	40	40	40	40	41	40	40	40	40	40	39	39	40	40	39	40	40	40	40	40	40	40	40	40	40	40
KLPP	GT13	0	0	0	0	0	0	0	23	22	32	46	60	138	129	130	129	129	129	128	133	138	138	140	104	104	104	100	101	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	63	151	152	155	157	117	118	122	122	118	118	156	
KLPP	GT15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	150	150	110	110	110	110	110	110	110
KLPP	ST17	0	0	0	0	0	0	0	0	0	20	28	39	68	67	67	67	67	59	147	145	134	214	194	196	196	192	192	213	
NPRI	BLK1	514	494	356	309	312	310	311	310	310	310	311	309	311	313	310	309	313	398	446	446	518	506	494	510	502	514	514	502	491
NPRI	BLK2	517	498	355	309	312	310	312	310	310	311	310	309	309	314	309	311	315	400	449	449	520	511	501	514	506	518	518	505	505
PCGP	PGRG	263	262	267	261	263	261	263	262	262	261	265	261	261	264	261	263	268	262	263	261	270	399	484	603	594	608	606	593	591
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	128	200	215	213	188	189	212	213	220	
PGLA	GT12	169	170	170	170	169	170	171	169	170	169	170	173	174	162	160	161	228	228	230	228	197	177	192	219	220	193	193	217	217
PGLA	ST10	95	94	94	94	94	94	94	94	94	94	94	0	0	0	0	93	113	113	113	112	100	88	215	241	240	219	218	239	
PLPS	GT11	128	127	128	128	127	128	127	127	128	127	127	127	128	128	130	130	130	130	130	130	129	130	130	130	130	130	130	130	130
PLPS	GT13	64	95	150	151	152	152	135	118	101	79	39	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLPS	ST18	101	121	136	135	136	135	132	129	124	115	98	57	55	56	57	56	56	56	56	57	56	56	56	56	56	57	56	57	56
SPGP	BLK1	358	358	360	358	359	360	359	358	359	360	357	360	359	361	359	360	360	360	359	359	360	360	359	358	360	359	499	597	599
SPGP	BLK2	360	360	362	361	361	362	359	360	363	360	359	360	360	361	360	359	359	359	358	360	360	360	359	358	360	358	499	597	599
TJGS	GT1A	209	175	174	173	174	175	168	173	173	172	171	173	172	175	172	174	175	234	222	223	221	225	221	179	178	123	124	224	223
TJGS	GT1B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164	215	214	213	213	215	216	170	168	116	113	211	215	214
TJGS	ST1C	105	92	92	92	89	89	89	89	89	89	89	89	89	89	89	89	110	238	246	246	246	246	208	208	166	166	223	247	247
TJGS	GT2A	192	158	158	158	158	158	158	158	158	158	158	158	158	158	158	158	159	159	158	158	221	218	159	159	159	159	159	159	159
TJGS	GT2B	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	117	
TJGS	ST2C	104	94	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	121	121	94	96	96	94	96	170
Total CCGT-Gas		5098	4951	4673	4578	4371	4226	3952	4100	3945	4063	4179	3982	4114	4256	3988	4046	4530	5153	5445	5600	5816	6084	6404	6497	6451	6258	6253	6818	7151
Total OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BSIA	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	22	22	22							

Daily MW Generation on Monday

Station	Unit	0000		0100		0200		0300		0400		0500		0600		0700		0800		0900		1000		1100		1200		1300		1400		1500		1600		1700		1800		1900		2000		2100		2200		2300			
CEND	HY03	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	9	9	9	9	10	10	10	10	10	10	9	9	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9		
CEND	HY04	7	7	7	7	7	7	8	7	8	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
HTRG	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
KNRG	HY01	33	33	33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33	33	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	21	21	34	33	34	34	34	34	34		
KNRG	HY02	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	22	22	23	22	23	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KNRG	HY03	36	36	36	36	37	37	37	37	37	37	37	37	37	37	37	37	37	36	36	36	22	21	22	22	23	23	22	22	22	22	22	22	22	23	23	22	23	23	23	23	22	23	37	37	37	37	37	37	37	
LPIA	HY01	21	22	22	22	22	22	22	22	22	21	21	21	21	21	21	21	21	21	21	21	21	21	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	20	20			
LPIA	HY02	19	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	23	23	23	20	20		
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
PGAU	HY03	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
PGAU	HY04	20	20	20	20	20	20	20	20	20	20	21	20	20	20	20	20	21	20	20	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
SIHY	HY02	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	31	31	31	31	31	31	31	31	31	31	50	50	50	50	50	50	50	
SIHY	HY03	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	50	50	50	50	50	50	50
SYPS	HY01	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25			
SYPS	HY03	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	25	25	25	25	25	25	25		
SYPS	HY04	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	34	34	84	31	33	33	33	33	33	33	33	33	34	33	34	33	34	-1	-1	34	32	34	33	33	34	31	34	8	-1	
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	84	85	89	46	43	46	44	47	71	45	45	45	46	46	68	46	45	46	46	50	45	44	65	46	45	46	45	81	54	45		
TMGR	HY03	43	41	40	45	42	42	41	41	42	42	42	42	40	41	41	41	45	55	45	41	84	41	38	40	40	43	65	39	40	41	41	41	62	41	40	41	42	45	41	41	59	41	41	41	41	74	48	40		
TMGR	HY04	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	33	33	84	30	32	32	33	32	32	32	33	32	33	32	33	33	-1	-1	-1	-1	33	31	32	83	83	83	31	-1	-1	-1	
UJLI	HY01	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	82	92	86	94	83	86	84	87	89	88	92	92	-1	-1	-1	-1	-1	-1	-1	92	91	92	93	-1	-1	-1		
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	93	94	98	91	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	88	94	-1	-1	96	87	128	94	100	105	97	116	96	-1			
UPIA	HY01	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
UPIA	HY02	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
Total Hydro		492	291	290	295	223	223	223	222	224	222	224	223	221	222	222	224	227	421	498	566	617	672	462	483	475	493	538	474	568	550	553	552	618	688	550	560	410	417	581	624	711	807	810	822	759	723	618	495		
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	6	13	13	24	16	17	26	28	18	30	29	14	27	20	4	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	6	7	9	10	11	14	16	12	13	18	17	11	18	17	14	12	11	9	3	1	0	0	0	0	0	0	0	0	0	0		
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	8	12	14	19	24	30	29	24	24	32	29	32	32	22	22	7	8	6	1	0	0	0	0	0	0	0	0	0	0	0	0		
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	13	18	17	43	42	20	37	30	40	43	19	13	26	31	12	12	10	6	3	1	0	0	0	0	0	0	0	0	0	0		
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	16	18	37	41	43	26	37	42	40	29	46	24	35	28	21	15	9	2	0	0	0	0	0	0	0	0	0	0	0	0		
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	15	25	15	19	30	28	30	28	21	24	22	29	15	12	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	15	38	23	42	30	39	47	45	30	34	25	11	17	42	30	20	14	13	2	1	0	0	0	0	0	0	0	0	0	0		
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	16	23	34	40	50	75	67	68	66	83	95	85	91	73	35	23	20	18	7	4	0	0	0	0	0	0	0	0	0	0	0		
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	14	17	18	27	26	42	48	44	42	42	43	26	24	6	5	6	5	2	1	1	1	0	0	0	0	0	0	0	0	0		
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	8	11	15	24	24	21	27	27	16	18	25																					

Daily MW Generation on Monday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300																									
Total Gen		14127	13809	13436	13189	12921	12781	12527	12553	12370	12478	12655	12514	12670	12809	12535	12674	13245	14267	14849	15205	15515	15888	16086	16221	16162	16003	16032	16527	16918	17165	17146	17110	17149	17165	16724	16284	16033	16043	16172	16351	16700	16986	16924	16883	16564	16387	16060	15738	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIE-HVDC		-29	-29	-29	-29	-30	-30	-28	-28	-29	-29	-28	-28	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-28	-28	-29	-29	-29	-28	-29	-28	-29	-28	-28	-28	-31	-30	-31	-30	-31	-28	-28	-28	-28	-30	-30			
TIE-PLTG		10	49	24	10	-3	20	-3	18	15	8	40	16	23	28	-32	-13	-86	-51	-69	-53	-108	-44	13	-19	37	-13	-19	3	49	31	55	32	-4	4	126	78	36	17	33	51	-48	52	-8	-16	44	-15	-3	64	
Interconnection		-19	20	-5	-18	-33	-9	-32	-10	-14	-21	12	-12	-7	-1	-61	-42	-115	-80	-99	-83	-137	-73	-15	-47	8	-42	-48	-26	20	3	24	3	-33	-24	97	50	9	-11	3	21	-78	21	-39	-44	16	-43	-30	34	
System Total		14146	13789	13441	13207	12954	12790	12559	12563	12384	12499	12643	12526	12677	12810	12596	12716	13360	14347	14948	15288	15652	15961	16101	16268	16154	16045	16080	16553	16898	17162	17122	17107	17182	17189	16627	16234	16024	16054	16169	16330	16778	16965	16963	16927	16548	16430	16090	15704	
SRev ST-Coal		330	307	356	369	363	358	332	377	378	389	392	375	354	363	357	379	346	288	150	122	133	137	118	137	148	123	100	119	125	79	98	81	90	83	85	102	101	113	111	102	110	131	107	128	127	108	121	104	
SRev CCGT-Gas		1532	1679	1957	2052	2259	2404	2678	2530	2838	2720	2676	2545	2422	2240	2508	2579	2365	2023	1731	1634	1518	1534	1409	1316	1362	1556	1561	1096	1003	722	676	682	623	594	863	1224	1045	980	999	907	639	427	516	691	947	956	1166	1380	
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		489	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	676	489	489	313	313	126	313	313	313	313	313	313	313	313	313	313	313	126	401	401	676	676	313	313	126	126	126	126	126	401	401	676	
Hydro		507	346	347	342	334	334	334	335	333	335	333	334	336	335	335	333	330	412	437	545	494	626	649	628	636	618	573	637	693	671	668	669	603	745	608	598	473	466	665	622	722	626	623	611	674	435	540	388	
S.Reserve Total		2858	3008	3336	3439	3632	3772	4020	3918	4225	4120	4077	3930	3788	3614	3876	3967	3717	3212	2807	2614	2458	2423	2489	2394	2459	2610	2547	2165	2134	1785	1755	1745	1629	1548	1957	2325	2295	2235	2088	1944	1597	1310	1372	1556	1874	1900	2228	2548	