

Daily System Generation Summary on Saturday

Saturday, July 2, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,430 MW
Distillate	0 MW
Total TNB	2,430 MW
Total IPP	17,854 MW
Total Co-Gen	0 MW
Total System	23,140 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,713	5.48 %
Gas	33,783	9.39 %
Total TNB	53,496	14.87 %
ST-Coal	218,338	60.71 %
LSS	5,907	1.64 %
Gas	81,293	22.60 %
Total IPP	305,538	84.95 %
Co-Gen	969	0.27 %
Total Co-Gen	969	0.27 %
Total Generation	360,003	100.10 %
PLTG	2,696	0.75 %
HVDC	-2,349	-0.65 %
Interconnection	347	0.10 %
Net Energy	359,656	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	20:30:00 Hour
Total Set On Bus	17,992 MW
TNB Generation	2,878 MW
IPP Generation	13,848 MW
Spinning Reserve	1,213 MW
Maximum Demand	16,773 MW
Net Energy	359,656 MWH
Load Factor	89.34 %

Fuel Cost

Total Cost:	125,865,799.60 RM
Cost per Unit	34.96 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	611
Hydro	454
Syncon	498
Thermal	238
Total	1,801

Time	Weather	Temperature
Afternoon	Hot	35
Morning	Sunny	25

Gas Usage

Station	(mmscfd)
GLGR	31
TJGS	69
Total TNB	100
CBPS	44
EMPP	196
NPRI	108
PCGP	79
PGLA	56
PLPS	58
SPGP	128
Total IPP	669
Total Gas	769
Total Gas Required	769

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	15824	15072	14489	13947	13593	13373	13241	13010	12888	14006	14767	15321	15172	14961	15411	15773	15850	15831	15349	15413	16742	16748	16403	16180

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, July 22, 2022 11:09:25 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

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	704	705	705	704	706	704	707	708	706	705	706	705	707	706	708	707	704	705	707	705	699	698	699	702	705	705	705	704	707																		
JMAH	U002	697	704	706	705	704	704	703	700	702	706	701	702	703	703	700	702	704	700	700	700	698	705	703	701	700	702	701	697	690	702	692	694	699	696	702													
JMHE	U001	979	983	983	926	934	931	929	931	882	882	882	878	880	880	856	851	852	850	850	899	955	981	979	978	978	984	981	978	978	978	980																	
JMHE	U002	140	278	262	503	508	702	739	742	741	741	740	738	740	740	738	742	740	741	740	741	740	741	739	741	742	741	741	741	742	741	745	739	740	740	741	740	742	495										
JMIG	U001	646	585	601	595	662	665	674	671	671	671	672	671	673	671	672	670	672	678	671	671	672	671	671	672	670	672	671	672	672	669	673	672	673	673	670	673	667	671										
JMIG	U002	671	671	671	672	672	667	667	671	676	668	671	676	671	672	672	672	669	666	671	672	673	671	671	671	669	672	671	671	670	668	672	669	668	673	670	673	672	674	669	669	673	668						
JMIG	U003	663	670	677	670	672	671	673	673	670	671	668	671	670	673	670	670	673	671	668	672	671	672	668	668	670	671	670	671	671	672	666	673	676	669	670	670	671	669	671	632	593							
JMIG	U004	976	977	977	960	930	933	930	928	890	882	880	881	881	883	862	854	854	851	850	852	900	911	968	972	977	974	976	974	976	977	981	974	974	977	973	971	972	968	971	970	974	975	972	974	970			
PKLG	U003	279	279	278	278	278	277	280	278	279	279	277	278	279	279	280	280	280	280	277	280	279	278	280	278	278	277	278	279	281	282	279	278	281	278	279	280	279	279	279	279	279	279	279					
PKLG	U004	275	272	273	274	273	280	276	273	277	275	273	276	274	271	272	272	272	274	274	272	274	273	272	272	264	268	276	271	274	276	274	272	275	275	271	269	273	271	273	272	274	274	275	269	271	272	268	276
PKLG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	64	101	155	159	167	160	159	171	169	167	196	185	235	294	376	389	460	471	465	491	470	465	478	470	462	469	
PKLG	U006	445	447	450	448	447	445	449	450	449	446	450	447	450	451	451	449	449	448	445	447	447	446	447	448	450	449	446	449	448	447	447	447	448	448	447	448	449	450	449	449	448	448	446	449	449	446	449	
TBIN	U002	700	701	700	705	703	702	701	704	705	705	702	706	702	701	705	701	705	709	702	700	702	697	702	697	699	702	699	702	701	697	703	701	702	698	702	704	700	699	705	696	702	702	703	703	698	700	703	699
TBIN	U003	205	214	211	212	209	38	42	42	42	43	43	55	70	69	99	102	101	133	211	244	366	402	401	404	454	452	453	453	452	453	453	453	454	454	453	453	454	454	454	454	456	578	643	719	715	693		
TBIN	U004	937	929	940	940	938	936	938	939	885	882	883	882	883	884	850	851	853	856	855	853	902	923	938	933	940	941	942	926	944	941	943	942	945	942	943	943	945	945	944	940	941	940	939	939	940	942	939	936
Total ST-Coal		8317	8414	8434	8593	8634	8657	8705	8709	8577	8556	8547	8555	8566	8585	8503	8516	8532	8527	8553	8631	8814	9028	9211	9241	9308	9351	9389	9348	9377	9375	9371	9377	9412	9387	9450	9514	9590	9593	9677	9672	9672	9682	9687	9783	9859	9939	9878	9587
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	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CBPS	BLK2	219	222	223	220	222	222	222	225	223	220	224	225	225	223	219	223	222	223	223	332	359	359	359	332	219	222	224	222	223	223	247	356	354	356	355	222	223	222	359	358	360	361	361	357	354	358	361	
EMPP	BLK1	411	335	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	
EMPP	BLK2	657	655	642	614	641	683	658	706	666	652	675	667	657	650	611	460	457	709	702	706	649	686	706	692	640	629	529	435	556	685	700	721	636	704	666	649	661	610	642	720	723	704	714	688	659	633	692	711
EMPP	BLK3	644	666	641	593	636	674	658	707	672	642	671	682	659	649	611	460	456	709	702	704	632	671	707	691	625	630	513	435	553	685	700	722	635	702	670	649	664	608	640	719	723	704	714	689	664	620	658	710
GLGR	GT01	83	83	85	49	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	
GLGR	GT02	84	84	84	107	107	92	92	92	92	92	92	92	93	92	92	93	92	92	92	92	92	92	93	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	
GLGR	ST1C	83	83	83	82	45	41	41	42	41	40	41	41	41	41	40	41	40	40	40	40	41	41	40	41	41	40	41	40	39	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
NPRI	BLK1	322	396	398	346	350	347	349	350	348	342	350	352	352	350	344	320	320	320	318	322	395	515	517	511	506	393	361	313	311	502	505	504	515	516	511	516	517	517	519	518	514	521	516	512	506	511	516	
NPRI	BLK2	397	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	121	121	232	505	525	524	534	535	516	519	521	515	520	520	519	525	525	515	522	516	517	511	514	520	
PCGP	PGRG	399	400	403	400	403	402	404	409	404	400	400	407	410	401	404	408	403	404	403	401	590	602	605	599	583	593	598	604	604	600	604	620	597	604	602	599	603	606	604	619	626	603	613	602	596	586	597	605
PGLA	GT11	170	170	171	170	171	171	161	165	164	163	165	166	165	165	163	164	164	164	164	165	162	220	220	159	156	157	158	160	160	159	158	163	219	188	223	221	162	163	162	221	224	224	225	224	223	223	220	160
PGLA	GT12	172	174	176	173	175	176	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
PGLA	ST10	205	205	204	205	205	128	94	92	90	90	90	91	90	90	91	91	90	92	91	91	90	113	113	89	88	89	88	89	89	88	89	90	113	114	115	115	89	90	89	115	115	115	115	115	112	114	89	
PLPS	GT11	116	115	115	127	129	128	129	129	128	128	129	129	129	129	128	128	128	129	129	128	128	129	129	129	129	124	127	130	130	130	130	134	130	132	131	131	115	116	115	144	143	143	143	143	141	115	115	
PLPS	GT13	111	112	112	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	139	137	138	137	139	138	137	139	138	111	112	112	141	140	141	141	142	141	137	111	112
PLPS	ST18	132	131	131	130	58	57	58	5																																								

Daily MW Generation on Saturday

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	9	9	9	9	9	9	
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	7	
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	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	63	0	0	
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	
KNRG	HY01	33	32	32	32	33	33	33	33	32	32	32	33	33	33	33	21	21	21	0	0	24	24	24	0	0
KNRG	HY02	37	37	37	37	37	37	37	37	37	37	37	37	37	37	22	23	23	23	0	0	24	24	24	0	0
KNRG	HY03	35	35	35	35	35	35	35	35	35	35	35	35	35	35	22	22	22	23	23	23	23	23	23	23	
KNYR	HY01	101	101	101	100	101	100	100	101	101	101	101	101	101	101	101	101	101	101	101	101	102	102	101	101	101
KNYR	HY02	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
KNYR	HY03	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
KNYR	HY04	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	103	103	102	102	102
LPIA	HY01	21	21	21	21	21	21	21	21	21	21	21	21	20	20	20	20	20	20	20	20	20	20	20	21	20
LPIA	HY02	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	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
PGAU	HY03	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
PGAU	HY04	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21	22	21	21	21	21
SIHY	HY02	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	30	30
SIHY	HY03	30	30	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	30	30
SYPS	HY01	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	17
SYPS	HY03	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	17
SYPS	HY04	17	17	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	25	25	17	17
TMGR	HY01	57	42	42	42	43	43	60	42	42	43	57	46	42	42	50	47	42	81	51	42	55	48	42	42	42
TMGR	HY02	88	35	88	87	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	84	34	35	0	0	0	0	0	0
TMGR	HY03	80	80	2	0	32	32	32	32	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TMGR	HY04	81	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
UJLI	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
UJLI	HY02	-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
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
UPIA	HY02	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
Total Hydro		1114	995	938	934	830	770	770	788	739	737	751	740	736	736	743	740	735	774	744	735	833	776	771	696	697
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	10	14	14	20	21	26	27	27
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	24	22	27	16	24	32	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	10	18	25	12	9	28	30	31	27
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	13	17	25	25	37	40	40	18	40
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	12	13	16	12	11	21	21	19	14
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	13	17	20	23	22	28	24	22	17
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	11	19	13	28	26	40	23	39	43
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	5	8	10	15	19	23	26	27	24	26	26
JLSL	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	16	22	28	35	38	37	44	39	37
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	8	27	33	60	79	80	48	83	82	91	88
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	15	25	14	16	31	32	40	40	39	39
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	9	15	15	16	7	25	27	29	29	29
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	5	14	55	73	77	83	91	92	60	60
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	4	25	23	25	29	30	30	30	27
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	23	29	33	38	40	43	46	31

Daily MW Generation on Saturday

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																									
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	26	41	57	72	82	93	103	103	69	59	113	67	98	83	74	63	74	62	41	36	15	5	5	0	0	0	0	0	0	0	0			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	12	15	30	35	39	42	46	40	46	46	45	43	42	39	32	27	25	14	5	3	1	0	0	0	0	0	0	0	0	0	0		
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	8	19	25	28	32	31	14	29	40	40	37	37	24	28	16	9	7	11	6	4	2	0	0	0	0	0	0	0	0	0	0		
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	14	17	21	23	24	28	29	28	29	22	23	23	22	19	16	11	7	4	1	0	0	0	0	0	0	0	0	0	0			
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	22	28	30	30	30	30	27	28	30	30	30	30	26	30	27	12	26	8	7	3	1	0	0	0	0	0	0	0	0	0			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	17	80	183	279	470	581	640	669	777	796	746	752	822	767	778	691	660	562	494	440	279	190	102	35	10	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	29	29	28	29	28	29	27	29	30	28	28	24	5	4	3	5	4	5	3	5	4	5	6	5	4	4	5	6	5	4	4	4	5	5	5	4	5	5	27	28	29	30	27	29	27	29			
PCUF	CUFK	27	24	28	25	26	25	26	27	25	26	25	26	27	27	26	25	26	28	27	27	26	25	26	25	27	26	27	25	26	26	26	27	25	25	26	25	26	26	25	27	27	25	26	24	26				
Total Co-Gen		56	53	56	54	54	53	56	55	54	53	50	32	31	27	31	32	31	28	31	30	33	33	32	31	29	31	31	33	30	30	30	30	31	32	30	29	30	30	31	53	53	56	57	52	55	51	55		
Total Gen		15841	15380	15066	14823	14512	14233	13995	13815	13619	13433	13392	13318	13271	13251	13085	12809	12866	13469	14007	14496	14782	15077	15292	15332	15175	14938	14913	15167	15379	15635	15776	15850	15878	15903	15867	15602	15431	15335	15441	16328	16779	16779	16778	16627	16457	16335	16289	16027	
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			
TIE-HVDC		-98	-97	-99	-97	-99	-99	-96	-99	-98	-99	-98	-97	-97	-99	-97	-98	-97	-97	-98	-97	-97	-98	-99	-99	-97	-98	-99	-97	-98	-100	-99	-100	-96	-96	-98	-98	-98	-98	-98	-96	-97	-99	-99	-99	-96	-96			
TIE-PLTG		116	101	94	139	123	94	144	98	125	105	116	84	127	145	174	87	74	96	98	100	113	68	71	103	100	76	49	27	67	76	101	95	127	135	132	196	180	130	126	112	134	102	127	125	153	118	205	105	
Interconnection		17	4	-6	42	23	-5	48	-2	26	6	19	-16	30	48	75	-10	-22	-2	1	3	15	-30	-29	6	3	-23	-48	-71	-32	-21	3	-4	28	35	36	99	82	32	28	14	37	6	30	26	54	19	109	8	
System Total		15824	15376	15072	14781	14489	14238	13947	13817	13593	13427	13373	13334	13241	13203	13010	12819	12888	13471	14006	14493	14767	15107	15321	15326	15172	14961	14961	15238	15411	15656	15773	15854	15850	15868	15831	15503	15349	15303	15413	16314	16742	16773	16748	16601	16403	16316	16180	16019	
SRev ST-Coal		227	394	390	225	210	437	409	265	355	373	380	370	360	342	380	354	336	342	489	412	328	346	263	233	266	218	180	221	192	194	198	192	157	182	269	205	169	166	161	192	192	182	177	166	160	160	216	161	
SRev CCGT-Gas		1758	1697	1058	1454	1453	1522	1417	1622	1282	1444	1475	1568	1597	1631	1711	2028	2048	1537	1157	910	608	267	207	499	666	895	1207	1283	1037	787	555	507	427	338	357	442	704	976	1020	369	172	240	198	270	341	419	359	355	
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	
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	
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	
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	
Syncon		500	500	588	588	588	588	588	676	676	676	676	676	676	676	676	676	676	676	676	676	588	588	588	588	588	588	588	588	588	588	588	588	401	401	401	588	588	588	588	214	214	126	126	214	401	588	588	588	
Hydro		394	513	482	399	428	388	388	370	418	333	333	319	330	334	334	327	330	335	296	326	335	325	382	387	375	374	376	361	371	371	371	371	290	416	388	465	334	329	291	290	474	510	665	716	592	472	387	428	407
S.Reserve Total		2879	3104	2518	2666	2766	3022	2889	2932	2731	2826	2864	2933	2963	2983	3101	3385	3390	2890	2618	2324	1947	1526	1440	1707	1982	2162	2438	2540	2275	2027	1799	1664	1488	1396	1579	1656	1877	2108	2146	1336	1088	1213	1217	1242	1374	1554	1591	1511	