

Daily System Generation Summary on Monday

Monday, July 24, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,261 MW
Distillate	0 MW
Total TNB	2,261 MW
Total IPP	18,034 MW
Total Co-Gen	0 MW
Total System	24,297 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,991	4.69 %
Gas	53,948	14.07 %
Total TNB	71,939	18.76 %
ST-Coal	230,372	60.08 %
LSS	7,143	1.86 %
Gas	75,207	19.61 %
Total IPP	312,722	81.56 %
Co-Gen	-390	-0.10 %
Total Co-Gen	-390	-0.10 %
Total Generation	384,271	100.22 %
PLTG	196	0.05 %
HVDC	641	0.17 %
Interconnection	837	0.22 %
Net Energy	383,434	100.00 %

Maximum Demand Record

Date: 5/11/2023	19,716 MW
Date: 5/11/2023	416,902 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	19,672 MW
TNB Generation	3,701 MW
IPP Generation	14,833 MW
Spinning Reserve	1,164 MW
Maximum Demand	18,420 MW
Net Energy	383,434 MWH
Load Factor	86.73 %

Fuel Cost

Total Cost:	89,806,785.46 RM
Cost per Unit	23.31 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	355
Hydro	371
Syncon	583
Thermal	228
Total	1,537

Time Weather Temperature

Afternoon	Sunny	28
Morning	Hot	34

Gas Usage

Station	(mmscfd)
GLGR	30
SRDG	2
TJGS	117
Total TNB	149
CBPS	46
EMPP	196
NPRI	147
PCGP	86
SGRI	5
SPGP	207
Total IPP	687
Total Gas	836
Total Gas Required	836

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	15070	14215	13636	13125	12827	12606	12977	13257	13870	15691	16557	17137	17056	16745	17578	18092	18296	18177	17103	16927	18196	18264	17796	17511

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, July 25, 2023 9:16:29 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	695	696	697	696	696	694	696	694	695	697	697	696	696	696	695	697	696	695	695	696	696	697	696	695	697	696	698	695	693																					
JMAH	U002	695	691	696	688	698	691	691	695	695	697	700	696	695	681	698	694	695	695	698	694	695	696	697	692	694	696	699	696	696																					
JMHE	U001	977	971	847	848	850	854	846	845	851	853	848	850	851	847	850	855	850	926	962	973	973	979	975	975	976	978	972	975	974	975																				
JMHE	U002	702	699	702	703	703	702	702	698	702	702	701	701	699	697	701	701	696	697	698	700	700	699	701	698	700	700	698	697	697																					
JMJG	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	201	245	305	347	354	340	344	349	354	349	348	349	349	384	426	419	425	436										
JMJG	U003	673	671	671	675	673	667	668	668	671	667	668	669	663	665	667	671	671	671	667	666	668	667	671	665	666	668	670	664	667	669	671	666	668	663	670	669	668	666	668	672	663	678								
JMJG	U004	977	978	936	904	902	905	901	906	902	902	905	901	903	903	902	906	907	971	977	978	980	983	982	983	977	979	980	977	979	977	981	980	979	981	983	980	980	979	981	978	978	978								
JMJG	U005	985	978	873	850	848	849	850	848	849	853	847	854	850	849	849	852	852	963	977	983	985	980	979	983	977	983	981	985	978	982	978	981	977	983	981	980	983	979	978	980	983	980	981	980	980					
PKLG	U003	151	151	151	151	151	150	151	151	149	151	152	151	150	151	150	150	151	150	201	269	289	285	278	279	276	276	276	276	276	276	277	276	277	277	276	277	277	277	277	277	278	276	276							
PKLG	U004	150	149	148	150	148	150	148	148	150	151	148	149	148	147	145	143	144	146	144	172	227	274	277	273	274	277	271	274	276	277	273	275	278	278	275	274	274	274	278	273	269	273	278	275	277	277	277			
PKLG	U005	470	420	340	272	269	269	269	269	270	270	269	269	270	269	269	270	269	269	304	387	456	464	465	466	466	467	467	474	468	469	469	470	465	459	468	469	468	466	466	467	466	470	466	470	469					
PKLG	U006	448	448	449	448	449	451	450	448	447	363	287	268	267	268	268	268	309	396	445	448	447	449	449	449	448	446	446	448	449	448	449	450	448	448	448	449	446	449	451	447	448	448	447	448	447					
TBIN	U001	555	316	208	208	211	211	209	210	210	211	210	210	209	211	210	210	253	390	589	682	696	697	689	690	689	690	689	691	688	689	693	687	689	690	692	690	687	689	688	691	692	689	688	690	688	688	691			
TBIN	U002	0	0	49	185	227	348	429	558	630	631	629	631	630	631	629	698	693	686	688	687	688	685	687	687	689	685	687	689	688	688	690	688	688	686	687	687	689	688	687	687	689	688	687	685	687					
TBIN	U003	696	694	696	692	576	364	234	209	211	211	209	211	210	211	212	211	255	370	499	655	693	693	690	693	690	691	690	684	690	691	691	691	690	688	686	687	687	689	688	687	687	689	686	685	685	686	689	688	685	
TBIN	U004	980	979	914	852	854	854	853	853	852	853	853	854	854	854	854	852	921	983	983	982	981	982	982	982	984	980	982	981	983	983	983	983	986	983	983	982	982	983	981	983	980	981	982	981	980	979	980	980	978	
Total ST-Coal		9154	8841	8377	8322	8255	8159	8097	8200	8284	8210	8119	8113	8095	8093	8084	8184	8295	8937	9441	9789	9966	10072	10144	10219	10198	10210	10199	10208	10204	10228	10414	10457	10513	10550	10573	10546	10545	10547	10567	10559	10572	10550	10542	10587	10634	10635	10621	10643		
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	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	0	
CBPS	BLK2	361	221	222	222	221	222	221	221	221	222	221	222	222	221	222	222	228	242	221	243	356	358	359	359	359	221	227	260	353	354	355	353	352	352	352	354	354	230	269	358	360	359	359	359	360	361	359	359		
EMPP	BLK1	691	701	709	686	686	603	574	407	393	412	410	495	612	678	578	509	699	710	700	706	708	713	697	683	678	686	711	725	712	709	710	710	711	711	711	710	710	712	711	712	720	708	711	700	685	711	693	712		
EMPP	BLK3	688	699	709	685	689	602	575	407	392	411	410	493	611	682	581	510	704	709	705	706	709	715	697	684	679	685	710	724	711	709	711	709	710	710	710	710	710	712	712	711	719	709	710	695	687	711	694	711		
GLGR	GT02	94	94	94	94	94	94	94	94	94	94	94	93	94	94	93	94	94	95	94	94	108	94	94	108	94	94	107	107	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	109	108	94			
GLGR	ST1C	42	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	42	41	41	41	41	41	46	41	41	41	41	47	48	47	47	47	47	47	48	48	47	41	41	41	41	47	47	47	47	47	46	41		
NPRI	BLK1	505	471	526	433	331	332	317	327	314	331	328	332	332	326	332	332	332	525	524	520	526	526	523	512	506	511	464	517	517	517	518	514	516	517	517	518	518	508	505	511	520	521	522	522	516	523	523	529		
NPRI	BLK2	519	457	508	430	328	326	310	322	307	325	322	329	325	319	328	328	329	524	505	511	525	527	478	513	505	509	459	517	523	522	520	518	523	521	522	521	520	509	503	509	527	526	525	521	516	525	522	528		
PCGP	PGRG	590	595	604	579	600	600	571	490	435	399	401	403	401	457	600	603	604	601	593	596	602	611	592	585	573	585	604	629	609	601	602	604	608	604	606	602	600	604	595	617	619	605	600	594	583	603	597	603		
SGRI	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	58	58	28	28	27	28	28	66	66	67	138	138	108	38	0	0	0	0	0	0	0	0	0	0	0	0	0			
SGRI	ST14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	719	718	718	720	720	720	722	721	723	652	650	650	649	705	717	718	717	716	717	714	714	707	702	706	701	695	694	693	691	687	690	685	688	691	694	693	695	702	703	707	710	712	711	715	714	714	714	714	714	
SPGP	BLK2	709	712	718	703	716	716	700	711	695	647	646	650	650	703	716	730	730	728	724	722	728	725	717	712	699	707	719	716	714	713	711	705	709	714	715	712	716	719	716	725	728	724	722	719	711	724	717	726		
TJGS	GT1A	139	139	135	135	139	135	127	139	128	142	140	137	139	138	140	138	135	135	140	135	137	138	235	231	218	169	168	181	230	229	229	229	229	229	229	228	229	228	132	135	202	230	229	229	229	230	231	231	232	132
TJGS	ST1C	79	78	79	79	78	79	78	78	74	77	78	79	79	79	78	78	78	79	79	79	79	79	119	121	121	92	92	92	121	120	121	120	120	120	120	120	121	81	79	95	120	120	121	1						

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
HTRG	HY03	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
HTRG	HY04	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
KNRG	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	36	36	36
KNRG	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	37	37	37
KNRG	HY03	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24	24	38	38	38	38
KNYR	HY01	97	97	101	99	100	100	97	101	95	96	96	100	101	100	101	101	101	102	101	102	101	102	101	100
KNYR	HY02	97	96	99	99	99	99	97	99	95	95	96	99	99	99	99	99	99	99	99	99	98	98	99	99
KNYR	HY03	92	92	92	91	91	90	89	89	87	88	89	91	92	92	93	93	93	92	91	91	90	89	89	90
KNYR	HY04	97	97	98	98	98	98	97	98	95	96	97	98	98	98	98	98	98	98	98	98	98	98	98	98
LPIA	HY01	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19
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
PGAU	HY01	-1	-1	0	0	0	0	0	-1	12	19	19	19	21	21	21	21	21	22	22	21	21	22	111	22
PGAU	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
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	110	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	49	50	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	17	25	25	17	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	17	17	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25	
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	-1	33	10	0	0	-1	33	33	34	83	83	
TMGR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	81	32	32	81	83	82	-1	
TMGR	HY04	40	41	46	40	41	41	37	42	37	42	41	44	42	42	79	41	40	39	40	42	85	81	83	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	96	92	
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	
Total Hydro		509	509	523	514	516	515	504	515	507	523	525	539	538	558	541	546	549	540	542	540	541	579	535	565
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	13	15	19	21	22	
BKLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	14	20	12	14	20	29	
BSLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	10	14	18	22	20	29	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	16	18	26	25	38	29	36	
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	14	19	24	24	32	34	
GELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	11	14	17	16	23	10	26	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	18	24	28	30	30	32	
JELS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	12	17	20	10	20	30	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	9	5	28	29	24	37	42	
KDLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	16	29	41	51	64	64	68	85	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	13	20	25	29	33	36	40	
KMLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	8	12	15	21	25	26	27	
KNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	24	39	54	67	77	89	97	
KRLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	19	13	27	30	30	22	
MALS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	14	25	26	21	22	29	29	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	10	17	23	29	33	37	40	
MNLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	28	57	70	78	84	87	88	87	
PKLS	LSS3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	25	41	51	67	84	77	93	75	
SNLS	LSS4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	24	10	10	38	45	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	18	28	27	30	41	45	

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																								
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	9	16	21	28	32	36	32	40	14	28	43	33	11	20	29	23	27	20	15	12	6	2	0	0	0	0	0	0	0	0	0		
STLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	14	17	13	11	22	20	9	26	31	18	18	25	22	19	6	13	9	6	0	0	0	0	0	0	0	0	0	0	0	0	
TBLS	LSS2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	18	27	28	30	30	30	30	30	30	30	30	30	30	22	30	24	19	12	5	1	0	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	16	115	264	419	589	686	724	853	926	921	916	812	873	883	892	821	812	710	700	534	381	269	139	45	0	0	0	0	0	0	0	0	0	0	0
ESTL	ESTL	0	-8	-14	-10	0	0	-12	0	-12	0	-7	-14	-15	-14	-2	0	-6	0	0	0	0	-16	-13	0	-17	-7	-10	0	-4	-6	-4	0	0	-3	-6	-3	0	-3	-1	0	-1	0	0	0	-2	-4	-6	
KHTC	BLK1	-27	-27	-24	-23	-21	-21	-21	-20	-17	-17	-18	-18	-19	-18	-20	-20	-24	-27	-29	-33	-35	-35	-38	-38	-40	-41	-43	-44	-48	-47	-49	-47	-51	-51	-48	-49	-46	-44	-38	-35	-36	-36	-33	-31	-28	-43	-42	-42
PCUF	CUFG	7	9	8	8	9	9	8	8	9	8	16	16	15	14	6	7	8	8	16	16	16	3	2	2	2	13	16	17	16	15	15	15	15	16	16	15	17	16	17	16	15	15	15	17	16	15		
PCUF	CUFK	7	7	8	8	7	7	7	6	8	7	6	8	7	6	8	9	9	8	6	5	4	4	3	2	1	1	0	0	5	5	5	6	3	1	3	3	4	3	4	5	5	5	6	10	9	9		
PFTZ	PFTZ	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4		
Total Co-Gen		-9	-15	-18	-13	-1	-1	-14	-2	-8	2	1	-4	-8	-7	-4	0	-9	-7	-3	-8	-11	-24	-45	-41	-31	-38	-29	-32	-28	-32	-31	-27	-27	-26	-28	-33	-26	-20	-17	-12	-12	-13	-9	-7	-3	-14	-17	-20
Total Gen		15046	14518	14201	13888	13671	13401	13174	12927	12857	12743	12642	12828	13036	13344	13303	13304	13893	15083	15719	16211	16553	16898	17148	17301	17082	16895	16788	17152	17562	17976	18109	18247	18335	18508	18258	17643	17170	16767	16993	17747	18236	18380	18324	18191	17877	17774	17587	17057
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	
TIE-HVDC		-29	-28	-31	29	29	31	31	29	29	31	31	31	29	31	31	29	31	31	31	31	32	32	31	31	30	30	31	31	31	31	29	29	31	31	31	31	31	31	30	29	31	31	30	31	31	31	31	
TIE-PLTG		4	3	17	11	6	0	19	3	1	-4	5	-21	30	28	15	2	-6	22	-3	0	-35	-26	-21	-8	-4	-9	13	-33	-46	-25	-14	17	10	57	50	18	36	16	37	3	9	29	30	41	50	8	45	14
Interconnection		-24	-25	-14	40	35	31	49	32	30	27	36	10	59	59	46	31	23	53	28	31	-4	5	11	22	26	21	43	-2	-16	6	17	46	39	88	81	49	67	46	66	34	40	59	60	71	81	39	76	45
System Total		15070	14543	14215	13848	13636	13370	13125	12895	12827	12716	12606	12818	12977	13285	13257	13273	13870	15030	15691	16180	16557	16893	17137	17279	17056	16874	16745	17154	17578	17970	18092	18201	18296	18420	18177	17594	17103	16721	16927	17713	18196	18321	18264	18120	17796	17735	17511	17012
SRev ST-Coal		243	313	808	722	731	825	743	767	689	737	736	732	744	744	753	714	728	574	398	301	235	194	205	167	188	176	187	178	182	258	222	279	223	186	163	190	191	189	219	227	214	236	244	199	252	251	265	243
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	71	4	38	0	0	0	0	
SRev CCGT-Gas		473	682	546	800	964	1137	1278	1651	1791	1857	1868	1685	1454	1165	1183	1307	922	516	545	564	634	458	344	373	546	726	739	712	490	329	327	247	230	262	354	222	597	724	575	203	130	169	174	206	259	156	211	509
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 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 Co-Gen		0	3	0	0	-1	0	1	0	0	-3	0	4	0	0	1	0	0	0	0	0	1	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	0	0	0	1	0	-2	1	0	0	0	0	0	1	1
Syncon		1016	1016	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	865	
Hydro		116	116	103	112	110	111	122	110	269	253	251	237	238	368	234	229	227	235	234	236	235	197	240	298	328	248	236	188	201	395	380	360	243	379	392	337	329	270	335	372	644	342	456	570	583	367	482	289
S.Reserve Total		1935	2217	2409	2586	2756	3025	3096	3631	3701	3796	3807	3610	3388	3079	3124	3203	2829	2278	2129	2054	2055	1801	1742	1703	1927	2102	2115	1880	1738	1634	1581	1537	1346	1164	1247	1488	1856	2136	1868	1325	989	969	1029	1164	1432	1299	1484	1781