

Daily System Generation Summary on Tuesday

Tuesday, August 9, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,362 MW
Distillate	0 MW
Total TNB	2,362 MW
Total IPP	18,835 MW
Total Co-Gen	0 MW
Total System	23,120 MW

Generation Mix

Type	MWh	Percentage
Hydro	25,987	6.75 %
Gas	25,046	6.51 %
Total TNB	51,033	13.26 %
ST-Coal	229,834	59.71 %
LSS	5,952	1.55 %
Gas	99,406	25.82 %
Total IPP	335,192	87.08 %
Co-Gen	586	0.15 %
Total Co-Gen	586	0.15 %
Total Generation	386,811	100.49 %
PLTG	1,152	0.30 %
HVDC	723	0.19 %
Interconnection	1,875	0.49 %
Net Energy	384,936	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:	16:00:00 Hour
Total Set On Bus	19,211 MW
TNB Generation	2,583 MW
IPP Generation	15,685 MW
Spinning Reserve	921 MW
Maximum Demand	18,215 MW
Net Energy	384,936 MWH
Load Factor	88.05 %

Fuel Cost

Total Cost:	130,694,057.43 RM
Cost per Unit	33.79 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	534
Hydro	280
Syncon	338
Thermal	150
Total	1,302

Time Weather Temperature

Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmcsfd)
GLGR	29
SRDG	11
TJGS	59
Total TNB	99
CBPS	53
EMPP	205
KLPP	64
NPRI	128
PCGP	84
PGLA	102
SGB3	0
SGRI	1
SKSP	24
SPGP	79
Total IPP	740
Total Gas	839

Total Gas Required 839

Alternate Fuel Usage

Station	(mmcsfd)
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	15749	14890	14401	13842	13552	13430	13634	13546	14006	15634	16471	17019	16864	16757	17383	18010	18215	17856	16756	16460	17787	17771	17264	16963

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, September 6, 2022 2:19:32 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Tuesday

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	U002	707	704	662	269	219	213	213	213	214	217	215	214	213	214	214	257	493	706	704	704	707	705	706	705	705	705	703	707	707	707	707	707	702	709	708	709	705	703	706	702	705	706	704	705	705	704		
JMHE	U001	979	981	980	980	900	845	851	849	850	851	850	853	854	845	849	853	948	978	978	978	980	977	981	976	978	980	977	980	977	978	982	981	978	980	977	983	978	975	981	978	977	976	975	975	977	980	973	
JMHE	U002	980	980	976	979	901	845	851	848	848	850	849	850	854	849	850	851	854	965	979	981	978	981	979	982	977	978	983	979	980	982	982	982	984	978	975	973	976	974	973	979	975	974	972	975	972	974	978	970
JMJG	U001	673	668	661	664	670	677	668	670	667	662	662	655	662	673	659	662	669	672	666	665	661	665	662	666	668	670	668	673	670	666	668	668	669	667	671	666	666	668	670	666	669	665	664	668	667	666	666	667
JMJG	U002	677	672	675	672	673	672	672	672	671	672	672	671	678	675	682	677	583	583	579	576	645	682	677	673	677	679	668	675	672	679	617	604	629	680	674	683	678	679	679	678	677	678	684	678	680	679	684	679
JMJG	U004	972	972	973	972	950	910	852	851	853	851	851	852	852	853	854	853	854	909	968	977	975	976	974	979	975	972	977	976	979	977	977	975	977	977	980	978	974	974	973	976	975	977	974	974	977	977	977	978
JMJG	U005	977	977	976	976	900	849	847	848	849	848	849	854	849	852	853	850	865	961	980	974	980	977	979	980	978	974	983	976	982	981	979	982	983	982	985	983	981	977	985	979	978	981	983	983	981	980	981	979
PKLG	U004	178	157	155	156	155	156	156	157	155	156	157	157	157	158	158	160	181	270	275	276	275	274	272	276	280	272	273	278	272	274	274	275	275	271	276	275	275	274	276	280	271	276	277	274	276	275	273	
PKLG	U005	384	297	268	268	269	269	269	267	267	271	269	268	270	268	269	270	269	291	388	464	467	469	466	468	464	468	466	466	466	464	467	468	466	466	467	465	466	466	465	471	467	464	465	464	468	470	470	468
PKLG	U006	371	277	268	268	269	268	268	270	269	269	269	269	270	269	267	269	272	355	426	447	447	448	449	449	448	449	446	446	449	450	447	449	448	447	451	446	449	448	450	446	445	447	449	450	446	449	450	450
TBIN	U001	701	699	700	700	700	699	699	699	699	700	697	700	696	699	699	700	699	699	699	699	698	696	701	696	700	700	699	696	699	701	705	699	698	699	701	699	696	699	700	698	697	700	700	701	698	699	699	701
TBIN	U002	697	701	698	700	698	698	517	328	220	210	209	211	210	211	210	211	212	264	448	648	703	703	702	702	701	702	703	703	703	704	698	703	701	704	703	699	703	703	703	702	701	701	701	700	701	703	697	701
TBIN	U003	705	700	706	700	701	698	700	701	700	703	702	701	700	702	702	699	699	701	700	701	700	702	703	699	698	697	699	698	700	700	699	699	698	698	702	698	698	700	699	700	703	700	698	698	701	701	700	699
TBIN	U004	942	941	944	943	904	854	856	852	854	852	853	852	854	855	856	853	853	942	942	940	942	942	939	939	941	937	941	940	944	941	940	942	940	943	941	937	935	937	937	940	937	937	940	939	941	941	939	938
Total ST-Coal		9943	9726	9642	9247	8909	8653	8419	8225	8116	8111	8105	8104	8118	8131	8118	8116	8100	8964	9729	10029	10154	10203	10187	10192	10184	10189	10190	10181	10209	10201	10138	10133	10158	10201	10203	10189	10188	10187	10188	10195	10188	10174	10187	10188	10185	10197	10201	10180
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	
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	345	349	349	352	352	339	349	347	339	339	341	344	347	350	342	335	350	320	336	337	333	340	347	341	341	345	348	348	349	345	344	347	352	348	347	340	345	346	349	353	352	351	352	351	343	352	352	346
EMPP	BLK1	686	693	690	710	710	676	710	709	690	688	694	711	712	691	704	681	723	666	696	695	682	711	707	681	680	689	705	701	694	683	682	693	714	693	692	680	688	690	710	716	710	709	709	704	684	710	712	688
EMPP	BLK2	704	707	706	709	710	692	711	709	706	705	706	600	625	707	599	632	722	679	707	707	698	711	706	695	695	704	709	708	710	701	698	706	714	705	707	696	706	707	710	715	710	710	711	700	709	711	701	
GLGR	GT02	91	91	91	92	91	91	92	91	92	91	92	91	92	91	90	91	90	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
GLGR	ST1C	41	40	40	40	39	40	40	41	41	41	41	41	41	40	40	39	39	40	40	41	40	40	40	41	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	50	134	67	54	135	138	140	139	141	140	139	138	139	139	140	139	140	113	104	107	134	130	131	130	130	127	130	130	130	
KLPP	GT14	0	0	0	0	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	60	148	151	152	154	155	155	125	115	124	157	157	156	157	156	155	156	155	
KLPP	GT15	0	0	0	0	0	13	13	13	9	9	10	9	13	30	35	74	147	125	125	125	125	70	70	135	135	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139	139
KLPP	ST17	0	0	0	0	0	0	0	0	0	6	13	15	31	40	69	66	63	61	58	135	0	77	138	140	142	142	143	139	142	212	212	212	212	211	211	195	189	190	211	211	211	211	211	210	210	210	210	
NPRI	BLK1	302	307	305	310	311	382	308	310	304	304	306	311	313	307	305	295	323	485	344	345	338	447	443	384	298	303	307	307	394	506	502	508	513	511	508	325	341	343	346	514	516	515	516	515	503	515	516	509
NPRI	BLK2	311	316	314	320	319	380	319	319	313	313	315	320	323	316	317	304	332	487	344	345	340	449	447	385	295	302	306	305	395	511	506	515	522	514	515	323	341	344	347	521	519	520	520	518	506	519	520	512
PCGP	PGRG	478	395	390	403	401	375	396	503	590	588	590	601	606	592	595	574	628	548	592	595	582	603	594	575	574	586	597	596	595	585	582	592	608	592	593	572	584	593	599	608	604	601	601	599	579	600	604	591
PGLA	GT11	218	183	133	133	133	172	134	133	132	133	133	133	133	171	136	135	135	208	189	214	216	219	218	208	215	135	135	223	219	218	217	218	222	219	218	216	219	172	191	221	220	221	219	220	215	220	220	217
PGLA	GT12	223	187	138	138	138	177	139	138	138	138	138	138	137	175	141	140	140	212	193	227	221	224	223	222	219	136	137	225	221	220</																		

Daily MW Generation on Tuesday

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	HY02	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	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	7	7	
HTRG	HY01	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	122	121	121	62	62	62	121	121	120	122	121	122
HTRG	HY02	120	62	62	62	62	0	0	0	0	0	0	0	62	63	63	63	120	119	119	121	63	63	119	120	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY01	31	31	31	31	31	31	20	20	20	20	20	21	21	21	20	20	20	31	32	32	32	20	31	31	
KNRG	HY02	37	37	37	36	37	37	23	23	23	23	23	23	22	24	37	21	21	21	37	37	37	37	37	37	
KNRG	HY03	35	35	35	35	35	35	22	22	21	22	22	22	22	21	23	35	22	22	21	35	35	35	35	35	
KNYR	HY01	100	100	100	100	100	100	100	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
KNYR	HY02	105	105	105	105	105	105	105	105	104	104	104	104	104	104	103	104	104	104	104	104	104	104	104	104	
KNYR	HY03	105	105	105	105	104	104	104	104	104	104	104	104	104	103	103	103	103	104	104	104	104	103	103	104	
KNYR	HY04	0	0	0	0	60	59	60	60	60	102	102	102	102	101	101	102	100	101	101	101	101	101	102	102	
LPIA	HY01	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	17	17	17	17	17	17	17	17	17	17	17	17	17	
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	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SIHY	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	34	77	34	62	61	0	0	0	61	
TMGR	HY02	35	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	89	88	88	86	88	88	85	85	87	88	87	
TMGR	HY03	31	32	32	32	32	29	32	32	31	31	32	32	32	29	32	75	82	82	80	82	82	79	79	81	
TMGR	HY04	39	41	41	56	66	36	42	83	40	50	42	84	83	40	37	84	33	82	83	43	60	47	39	38	
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	
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	
UPIA	HY01	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
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	
Total Hydro		844	689	690	703	773	677	670	690	644	695	688	732	731	708	706	727	766	1035	960	989	943	1125	1316	1148	
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	1	3	7	9	14	17	20	22	24	25	27	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	10	12	20	17	30	23	19	19	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	20	24	24	26	21	30	27	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	15	20	26	35	20	28	39	29	24	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	17	20	17	21	14	29	30	29	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	11	17	20	25	37	40	41	29	29	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	10	14	18	21	26	26	27	19	22	
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	16	26	30	36	4	39	25	30	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	15	26	38	55	67	75	52	45	72	75	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	12	18	28	28	14	40	21	32	37	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	8	12	16	22	25	24	24	24	26	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	17	29	43	35	89	48	100	100		
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	17	9	27	23	32	32	22	32	

Daily MW Generation on Tuesday

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																								
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																								
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	28	56	70	78	83	75	41	93	93	94	97	98	63	98	96	88	91	38	30	21	15	8	2	0	0	0	0	0	0	0	0			
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	11	13	42	27	79	77	103	56	67	105	69	74	86	101	82	55	29	65	45	46	30	15	5	5	0	0	0	0	0	0	0	0	0		
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	14	19	26	36	42	45	52	50	52	39	50	41	49	48	44	22	17	25	23	9	3	2	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	3	4	13	13	20	29	24	36	20	42	42	31	40	37	36	33	28	22	8	8	12	5	2	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	4	5	11	14	18	21	19	27	28	28	29	29	18	22	10	17	20	12	8	2	0	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	2	4	13	9	15	30	30	30	30	31	30	30	30	30	20	29	6	22	29	19	17	3	3	0	0	0	0	0	0	0	0	0			
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	10	91	211	338	433	572	705	618	780	769	847	841	757	742	830	760	607	491	475	404	292	188	109	37	6	0	0	0	0	0	0	0	0		
PCUF	CUFG	24	23	24	24	23	24	25	23	24	23	21	21	22	21	21	22	21	19	20	20	19	18	18	18	17	17	17	17	17	17	20	20	19	20	19	20	20	21	20	20	19	19	20	19				
PCUF	CUFK	5	5	4	4	4	4	5	2	5	5	5	4	6	6	4	4	5	5	4	4	6	4	3	4	4	4	4	5	4	4	5	4	4	3	4	3	3	4	3	2	4	3	3	5	5	4		
Total Co-Gen		29	28	28	28	27	28	30	25	29	28	26	25	27	28	25	25	27	26	24	24	24	25	22	23	23	21	22	22	21	22	21	24	23	23	23	22	24	23	23	24	23	22	24	25	23			
Total Gen		15842	15317	14995	14743	14473	14272	13891	13814	13587	13512	13520	13505	13661	13950	13625	13576	14010	15074	15692	16234	16556	16961	17137	17217	16993	16790	16806	17246	17474	17885	18086	18137	18290	18251	17931	17424	16884	16498	16555	17358	17840	17846	17856	17713	17429	17355	17059	16634
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			
TIE-HVDC		29	31	31	31	29	31	31	31	28	29	31	29	29	30	29	30	31	30	31	31	31	29	29	30	30	30	29	31	31	31	31	30	31	29	30	31	29	30	31	29	31	31	31	28				
TIE-PLTG		64	57	74	14	43	80	18	51	6	44	59	34	-2	45	49	54	-25	23	28	-4	54	33	87	41	100	49	19	22	62	44	44	44	44	44	44	97	46	67	20	22	55	54	106	135	64	65	85	
Interconnection		93	88	105	45	72	111	49	82	35	73	90	63	27	75	79	83	4	53	58	26	85	64	118	71	129	78	49	52	91	76	76	76	75	75	75	74	128	77	95	50	53	84	85	135	165	95	96	113
System Total		15749	15229	14890	14698	14401	14161	13842	13732	13552	13439	13430	13442	13634	13875	13546	13493	14006	15021	15634	16208	16471	16897	17019	17146	16864	16712	16757	17194	17383	17809	18010	18061	18215	18176	17856	17350	16756	16421	16460	17308	17787	17762	17771	17578	17264	17260	16963	16521
SRev ST-Coal		240	256	299	334	622	716	784	787	788	792	797	800	794	773	778	788	787	501	274	190	165	116	142	137	145	140	139	148	120	128	179	126	161	128	126	140	141	142	141	134	141	155	142	141	144	132	128	149
SRev CCGT-Gas		793	945	1184	1054	1055	1058	1200	1098	1174	1294	1487	1544	1403	1105	1412	1490	1046	498	848	730	698	514	591	677	955	982	877	654	781	535	575	433	298	352	627	1133	876	1015	892	278	284	277	274	292	363	256	248	460
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	95	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		
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	7	4	2	37	-1	-5	74	110		
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		
Syncon		676	890	890	890	890	890	739	890	890	890	890	890	890	739	739	739	802	500	802	802	802	676	0	187	374	525	525	525	525	338	338	338	151	151	338	374	187	525	525	338	151	151	151	151	0	0	0	525
Hydro		277	218	217	204	199	170	328	157	203	187	194	150	151	325	327	341	204	474	222	193	239	96	431	412	313	235	320	200	120	223	267	232	311	322	336	306	410	239	233	234	364	354	363	395	143	342	572	119
S.Reserve Total		1986	2309	2590	2482	2766	2834	3051	2932	3055	3163	3368	3384	3238	2942	3256	3358	2926	1973	2146	1915	1904	1402	1164	1413	1787	1882	1861	1527	1546	1224	1359	1129	921	953	1427	2048	1614	1921	1791	984	947	941	932	1016	649	725	1022	1363