

Daily System Generation Summary on Monday

Monday, May 10, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,372 MW
Distillate	0 MW
Total TNB	2,372 MW
Total IPP	15,674 MW
Total Co-Gen	0 MW
Total System	22,317 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,275	5.98 %
Gas	67,952	18.25 %
Total TNB	90,227	24.23 %
ST-Coal	210,580	56.56 %
LSS	3,486	0.94 %
Gas	68,091	18.29 %
Total IPP	282,157	75.78 %
Co-Gen	159	0.04 %
Total Co-Gen	159	0.04 %
Total Generation	372,543	100.06 %
PLTG	-509	-0.14 %
HVDC	721	0.19 %
Interconnection	212	0.06 %
Net Energy	372,331	100.00 %

Maximum Demand Record

Date: 3/10/2020	18,808 MW
Date: 3/10/2020	394,238 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:00:00 Hour
Total Set On Bus	18,861 MW
TNB Generation	4,721 MW
IPP Generation	13,051 MW
Spinning Reserve	1,082 MW
Maximum Demand	17,755 MW
Net Energy	372,331 MWH
Load Factor	87.38 %

Fuel Cost

Total Cost:	56,872,480.39 RM
Cost per Unit	15.26 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	482
Hydro	350
Syncon	346
Thermal	176
Total	1,354

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	26

Gas Usage

Station	(mmscfd)
GLGR	52
TJGS	198
Total TNB	250
CBPS	51
KLPP	75
NPRI	153
PLPS	76
SKSP	27
YPKA	42
Total IPP	424
Total Gas	673
Total Gas Required	673

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	14832	14238	13617	13309	12932	12996	12952	12892	13561	15344	16225	16541	16680	16635	17273	17670	17755	17220	16380	16279	16786	16938	16652	16357

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, June 4, 2021 9:49:04 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										
JMHE	U001	980	979	980	977	901	901	848	857	851	849	852	850	851	849	854	982	987	980	978	980	978	979	979	983	980	980	983	980	980	983	980	981		
JMHE	U002	978	978	980	975	900	902	849	851	851	846	850	851	850	851	851	983	989	980	980	981	981	977	979	980	979	977	981	980	980	981	980	980		
JMJG	U001	670	672	672	673	671	672	667	668	673	672	671	672	673	671	673	672	668	671	675	670	672	672	671	673	671	672	674	675	671	678	671	669		
JMJG	U002	671	673	671	671	671	672	671	671	673	676	671	672	673	672	673	674	673	669	672	671	671	677	673	668	669	677	672	675	668	672	667	673	676	
JMJG	U003	663	661	662	661	663	662	665	662	667	662	661	664	662	663	663	664	665	663	662	666	665	662	665	669	657	660	667	664	663	658	665	664	665	
JMJG	U005	892	891	889	892	892	864	849	850	849	847	851	849	849	852	850	852	850	892	888	888	891	892	891	892	890	891	892	887	885	884	886	885	884	882
PKLG	U003	278	279	278	280	281	280	277	277	278	278	278	280	279	280	282	280	280	281	279	278	281	281	280	278	275	279	279	277	272	273	276	277	275	273
PKLG	U004	271	274	277	278	276	275	276	276	278	280	277	275	281	276	275	281	276	276	277	277	278	190	205	253	278	272	271	263	273	276	276	276	274	276
PKLG	U006	446	448	440	448	448	449	450	449	446	448	447	451	448	445	450	446	449	447	449	446	449	449	447	449	450	445	449	449	447	446	450	450	450	
TBIN	U001	690	691	690	687	689	691	690	690	688	689	689	687	693	688	690	689	690	688	689	686	688	689	687	688	689	687	689	690	689	689	691	689	688	
TBIN	U002	692	690	691	691	692	690	696	693	689	692	688	692	694	690	694	691	690	687	691	692	687	691	693	689	692	692	691	695	687	690	690	689	689	
TBIN	U003	692	687	687	693	691	691	686	688	690	694	692	698	694	659	499	507	504	496	609	585	656	695	690	691	696	693	687	692	695	695	691	686	690	
TBIN	U004	982	981	983	962	903	871	852	855	849	854	853	852	852	855	853	853	917	983	983	984	982	984	983	982	984	981	982	982	984	983	981	982	983	
Total ST-Coal		8905	8904	8900	8888	8678	8620	8476	8487	8482	8487	8480	8493	8499	8450	8305	8301	8313	8656	8843	8806	8879	8919	8837	8840	8887	8919	8904	8915	8905	8884	8896	8893	8885	
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	
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	
CBPS	BLK2	360	365	355	355	364	354	356	223	223	226	227	222	222	226	228	220	338	361	366	370	356	363	365	363	365	362	363	355	363	365	362	361	364	
GLGR	GT01	67	67	68	67	68	67	69	67	68	68	68	67	68	68	67	102	101	100	100	100	101	100	100	101	100	99	99	101	98	99	100	99	100	
GLGR	GT02	68	68	68	68	68	67	68	68	68	68	68	68	68	68	68	102	100	100	100	100	99	100	100	100	100	100	100	100	100	100	101	100	101	
GLGR	ST1C	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	89	92	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
KLPP	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	149	148	149	149	157	156	156	156	156	154	155	157	157	
KLPP	GT15	0	0	0	0	0	0	0	57	47	58	72	87	172	171	174	149	156	158	162	165	161	137	140	143	147	147	147	145	145	145	145	145	145	
KLPP	ST17	0	0	0	0	0	0	0	0	0	20	24	35	68	68	64	60	60	62	56	143	138	130	205	206	207	207	205	206	206	206	205	206	207	
NPRI	BLK1	508	515	515	505	514	505	516	515	514	456	451	399	320	320	398	394	525	515	521	528	508	514	524	514	511	514	515	511	515	515	523	520	520	
NPRI	BLK2	515	521	521	510	518	511	520	446	319	327	322	320	319	319	319	314	328	519	520	530	511	516	526	518	514	518	513	518	519	521	520	520	520	
PCGP	PGRG	262	260	260	261	261	261	260	262	262	267	262	259	260	261	260	273	351	356	370	350	352	364	351	352	352	353	352	402	401	413	413	412	403	
PLPS	GT11	127	126	127	123	129	125	129	128	129	133	128	129	129	129	128	129	132	129	144	141	137	143	142	142	142	141	140	138	141	140	141	140	141	
PLPS	GT12	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	GT13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	112	141	140	140	141	140	141	139	140	136	139	140	140	
PLPS	ST18	140	61	60	59	60	58	57	57	57	57	58	58	57	57	57	58	58	60	59	124	146	144	145	145	144	144	144	146	211	213	213	212	213	
SKSP	BLK1	0	0	0	0	0	0	0	0	0	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	650	650	598	600	598	597	601	601	599	599	598	599	598	550	600	649	648	716	718	717	718	719	719	716	713	707	704	704	702	699	694	696	701	
SPGP	BLK2	698	647	647	646	647	646	648	647	645	600	598	600	598	599	599	601	647	716	720	716	718	718	718	717	719	717	716	710	710	710	718	717	718	
TJGS	GT1A	229	226	226	196	181	164	135	139	137	136	138	138	135	136	135	138	142	231	227	226	226	226	228	227	227	228	222	227	223	226	224	230	230	
TJGS	GT1B	214	217	217	181	166	147	128	128	125	128	126	125	123	125	124	128	129	210	216	218	214	211	216	212	211	210	214	214	214	213	217	215	217	
TJGS	ST1C	241	241	241	218	210	188	174	170	170	170	170	170	170	170	170	209	245	248	248	248	248	248	248	248	248	248	248	248	248	248	254	254	254	
TJGS	GT2A	216	216	146	108	106	106	107	105	106	106	108	106	106	106	108	107	189	216	216	214	216	216	216	215	215	215	214	213	216	215	215	223	222	
TJGS	GT2B	212	212	142	103	103	103	103	103	103	103	103	103	103	103	104	104	186	211	213	212	212	212	212	212	212	211	210	213	212	212	221	219	220	
TJGS	ST2C	255	255	218	192	192	192	192	192	192	192	192	192	192	192	192	192	223	255	255	257	257	257	257	257	257	257	257	257	257	257	260	263	263	
YPKA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	67	122	119	118	117	116	117	117	116	117	117	117	117	
YPKA	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
YPKA	ST10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	33	33	33	53	51	88	122	122	122	122	122	122	122	122	122	122	123	125	
Total CCGT-Gas		4945	4719	4481	4265	4257	4163	4135	3980	3836	3790	3806	3824	3849	3810	3976	3987	4320	5141	5473	5599	5929	6072	6129	6281	6299	6361	6433	6561	6715	6854	6866	6877	6923	
Total OCGT-Gas		0	0	0	0	0																													

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
BSIA	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
CEND	HY01	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
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	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	9	9	9	9	9	9	9	10	10
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	99	1	1	0	0	0
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	123	122	99	-1	-1	-1	-1
KNRG	HY01	36	36	36	36	36	36	36	36	23	22	22	23	22	22	36	36	36	0	0	0	0	0	37	36
KNRG	HY02	36	36	36	36	36	36	36	36	24	23	23	23	22	37	37	37	0	0	0	0	0	38	37	36
KNRG	HY03	36	36	36	36	36	36	36	36	22	21	21	22	21	21	36	36	36	21	21	22	22	23	22	21
KNYR	HY01	99	99	99	98	99	96	97	58	59	100	100	59	59	100	100	99	100	100	57	54	54	57	101	100
KNYR	HY02	67	98	77	59	75	58	80	72	78	100	101	87	70	101	67	61	101	93	100	101	61	84	101	99
KNYR	HY03	100	101	100	99	100	98	99	59	60	101	101	101	101	101	101	101	99	99	101	100	101	101	101	101
KNYR	HY04	101	101	100	99	100	98	99	100	102	102	101	101	102	102	100	102	102	100	99	102	100	101	59	59
LPJA	HY01	19	19	19	19	19	19	19	17	17	17	17	17	17	18	18	18	18	18	20	20	20	20	20	20
LPJA	HY02	19	19	19	19	19	19	19	17	17	17	17	17	17	18	18	18	18	18	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	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	69	111	150	21	-1	-1	-1
PGAU	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	21	21	49	111	82	21
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	81	21	0	0
SIHY	HY01	31	31	0	0	0	0	0	0	0	0	0	0	0	0	31	31	31	52	51	31	31	31	31	31
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	50	50	50	30
SIHY	HY03	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	50	50	50	30	30
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	25	25	25	17	17
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	25	25	25	25	17	17	17
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	16	16	16	16	16	16
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	19	25	17	17	17	17	17
TMGR	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	57	57	84	83	84	-1	-1
TMGR	HY02	61	78	81	81	57	57	68	68	81	81	72	72	82	82	86	86	74	74	43	43	85	85	71	67
TMGR	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
TMGR	HY04	32	33	33	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	54	83	83	41	41	33	33	33	-1
UJLI	HY01	92	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	98	120	124	130	125	87	92	92	88
UJLI	HY02	91	97	97	91	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	102	98	94	100	123	126	132	128	125	95
UPIA	HY01	6	6	6	6	5	6	5	5	6	5	5	5	5	5	6	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
Total Hydro		951	914	803	742	644	644	657	567	588	693	647	588	581	657	623	613	795	779	753	977	1027	1055	1120	1185
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	1	2	5	7	16	18	21	23	24	27	21	30
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	17	20	24	27	30	30	27	27	30
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	4	9	13	18	22	25	27	30	21	29	10	30
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	17	22	27	32	30	41	18	28	11
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	18	24	28	35	25	27	43	42	43
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	13	18	15	26	7	27	21	15	9
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	17	23	29	33	38	40	44	44	26
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	7	13	19	25	31	36	38	29	32	37	36
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	5	11	16	22	27	31	36	38	25	36	47	39
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	2	5	11	6	19	23	27	20	27	30	30	24

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																									
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	22	28	34	43	48	31	42	44	35	49	8	48	42	39	35	30	18	15	8	2	0	0	0	0	0	0	0	0	0	0			
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	22	30	37	42	49	37	22	26	52	50	24	43	25	20	13	25	28	16	7	4	1	0	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	2	5	11	16	22	27	32	27	20	26	24	37	29	15	32	36	30	30	26	10	15	8	0	0	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	0	0	0	0	0	0	0	0	0	0	8	8	6	10	27	8	17	26	8	11	3	3	8	5	2	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	4	14	18	25	27	30	30	30	30	30	26	10	10	10	29	29	29	28	22	15	9	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	19	70	153	217	309	365	437	425	439	419	439	423	492	356	459	423	390	349	284	230	166	87	24	5	0	0	0	0	0	0	0	0	0	0		
PCUF	CUFG	3	2	4	4	3	4	3	4	3	3	3	3	4	4	4	5	4	3	3	4	3	4	3	4	3	4	3	2	3	3	2	3	4	4	4	3	4	3	3	4	4	2	4	2	3	4	4		
PCUF	CUFK	3	2	5	2	3	4	4	3	5	3	5	2	3	3	3	4	3	4	3	4	3	4	2	2	4	2	7	4	3	2	3	3	2	4	4	4	3	5	3	4	4	2	3	4	1	3	2	4	2
Total Co-Gen		6	4	9	6	6	8	7	7	8	6	8	5	7	7	5	6	7	6	8	7	8	7	6	7	5	11	7	7	5	7	6	4	7	7	8	7	9	6	8	7	5	7	8	3	7	4	7	6	
Total Gen		14807	14541	14193	13901	13585	13435	13275	13041	12914	12976	12941	12910	12936	12924	12909	12926	13505	14735	15294	15698	16208	16490	16517	16752	16658	16573	16612	16990	17315	17556	17638	17766	17779	17818	17310	16823	16430	16308	16320	16414	16797	16995	16928	16847	16670	16519	16333	16131	
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	29	31	31	29	29	29	31	31	31	29	30	30	31	29	29	32	31	31	31	30	30	29	31	32	29	29	31	32	29	31	31	31	31	29	29	31	31	30	30	31	31	29	29	29	29	31		
TIE-PLTG		-43	-58	-66	-17	-52	-47	-53	-56	-39	-81	-74	-13	-35	6	-2	-28	-77	6	-71	-113	-36	-30	-45	-38	-42	-79	-43	8	22	-31	-51	31	3	64	70	78	32	19	22	-36	-8	31	-30	22	0	4	-44	2	
Interconnection		-15	-29	-35	14	-22	-18	-24	-26	-8	-51	-44	16	-5	37	27	1	-46	37	-40	-84	-7	2	-14	-7	-12	-49	-13	37	52	1	-22	60	34	95	101	108	61	50	52	-6	22	62	1	51	29	33	-14	33	
System Total		14832	14580	14238	13897	13617	13463	13309	13077	12932	13038	12996	12905	12952	12897	12892	12935	13561	14708	15344	15792	16225	16498	16541	16769	16680	16632	16635	16963	17273	17565	17670	17716	17755	17734	17220	16726	16380	16269	16279	16431	16786	16944	16938	16807	16652	16496	16357	16108	
SRev ST-Coal		166	167	171	183	393	422	445	450	440	431	445	433	424	463	520	520	418	215	128	265	192	152	234	147	184	152	167	156	166	187	175	178	186	164	182	159	177	151	155	164	180	156	157	172	146	163	159	149	
SRev CCGT-Gas		697	706	944	1160	1168	1262	1290	1598	1742	1860	1974	1956	1953	1992	1891	1858	1547	726	394	694	541	440	536	790	760	698	626	498	487	419	407	396	350	331	357	339	439	451	465	435	365	411	413	446	624	530	645	527	
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		364	551	551	638	825	674	825	825	825	825	825	825	825	825	825	825	638	638	638	364	277	277	126	126	277	364	364	364	277	277	277	126	187	374	374	738	825	926	926	926	752	464	464	464	464	126	277	464	
Hydro		394	244	205	179	90	241	77	167	146	40	86	145	152	77	111	121	126	142	168	318	323	295	381	391	377	495	493	323	402	384	289	285	361	235	646	320	431	400	353	354	197	267	482	410	439	487	414	331	
S.Reserve Total		1621	1668	1871	2160	2476	2599	2637	3040	3153	3156	3330	3359	3354	3357	3347	3324	2729	1721	1328	1641	1333	1164	1277	1454	1598	1709	1650	1341	1332	1267	1148	985	1084	1104	1559	1556	1872	1928	1899	1879	1494	1298	1516	1492	1673	1306	1495	1471	