

Daily System Generation Summary on Saturday

Saturday, December 21, 2019

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,317 MW
Distillate	0 MW
Total TNB	2,317 MW
Total IPP	14,674 MW
Total Co-Gen	0 MW
Total System	19,504 MW

Generation Mix

Type	MWh	Percentage
Hydro	17,572	5.25 %
Gas	33,271	9.95 %
Total TNB	50,843	15.20 %
ST-Coal	215,021	64.30 %
LSS	2,328	0.70 %
Gas	65,828	19.69 %
Total IPP	283,177	84.69 %
Co-Gen	638	0.19 %
Total Co-Gen	638	0.19 %
Total Generation	334,658	100.08 %
PLTG	-456	-0.14 %
HVDC	727	0.22 %
Interconnection	271	0.08 %
Net Energy	334,387	100.00 %

Maximum Demand Record

Date: 4/18/2019	18,566 MW
Date: 4/18/2019	391,845 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	19:30:00 Hour
Total Set On Bus	17,155 MW
TNB Generation	2,752 MW
IPP Generation	12,827 MW
Spinning Reserve	1,573 MW
Maximum Demand	15,603 MW
Net Energy	334,387 MWH
Load Factor	89.30 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	386
Hydro	335
Syncon	858
Thermal	288
Total	1,867

Time	Weather	Temperature
Afternoon	Rainy	31
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	204
Total TNB	233
CBPS	51
KLPP	83
NPRI	100
PGLA	86
PLPS	1
SGB3	5
SKSP	19
YPKA	22
Total IPP	367
Total Gas	600

Total Gas Required 600

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	14398	13737	13172	12773	12419	12347	12371	12150	12102	13287	14160	14648	14506	14202	14516	14613	14829	14752	14473	14576	15459	15191	14847	14484

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Sunday, January 05, 2020 10:39:03 AM
(Ir. Shanmugam Thoppalan)
Pengurus Besar Kanan
Jabatan Sistem Operasi

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	692	695	694	691	694	693	692	692	693	695	693	690	690	694	694	694	692	691	689	694	694	693	693	692	693
JMAH	U002	696	697	697	707	687	701	692	696	690	697	696	697	693	695	696	693	693	691	700	693	698	694	695	696	699
JMHE	U001	981	981	544	503	499	499	500	781	780	780	780	780	782	777	781	776	783	778	780	780	783	781	901	945	936
JMHE	U002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	47	137	366	519	
JMJG	U003	663	662	661	662	662	668	656	666	662	663	664	666	658	665	665	662	666	667	652	668	662	662	660	655	662
JMJG	U004	918	903	903	902	842	787	788	788	789	788	788	788	790	788	790	787	788	786	789	931	945	944	944	944	942
JMJG	U005	952	899	900	845	780	780	777	780	779	782	782	782	782	777	781	782	782	780	781	838	940	943	938	940	939
PKLG	U003	282	283	283	283	283	284	284	282	282	284	281	284	283	282	283	282	281	282	281	283	282	285	284	285	284
PKLG	U004	284	279	280	280	280	276	276	280	275	278	280	281	282	280	280	277	278	281	280	282	277	280	281	280	280
PKLG	U005	465	466	465	466	468	468	465	467	468	466	466	463	466	468	468	466	466	466	467	468	468	468	466	464	467
TBIN	U001	691	690	690	687	689	689	689	690	688	691	690	689	691	690	690	692	686	689	692	689	689	691	689	689	691
TBIN	U002	690	691	691	690	691	692	692	689	695	691	692	689	692	689	694	691	691	690	690	691	688	693	690	692	693
TBIN	U003	690	691	692	693	692	691	690	690	690	691	691	692	692	693	690	691	692	691	691	692	691	691	691	690	690
TBIN	U004	929	903	904	865	782	783	783	782	783	782	783	784	783	783	782	782	784	783	782	781	811	903	941	942	943
Total ST-Coal		8933	8840	8404	8274	8049	8011	7984	8283	8274	8287	8286	8284	8281	8297	8274	8287	8276	8275	8488	8631	8719	8877	8920	8913	8910
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
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
CBPS	BLK2	351	363	363	357	364	357	357	363	234	222	221	224	219	220	214	208	220	358	361	362	354	361	362	357	358
GLGR	GT01	94	95	93	95	95	94	95	96	95	96	94	95	95	94	94	94	96	93	95	108	108	110	109	109	
GLGR	ST1C	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	45	45	46	46	40	
KLPP	GT13	112	73	94	104	116	135	75	75	75	79	77	81	80	74	73	71	74	73	74	136	139	139	139	138	
KLPP	GT14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	151	120	120	118	
KLPP	GT15	123	79	84	104	126	143	103	85	85	86	85	87	87	85	82	79	84	85	84	143	154	154	155	151	
KLPP	ST17	126	97	89	105	123	126	108	87	87	86	87	84	92	91	91	92	90	98	98	138	138	138	138	133	
NPRI	BLK1	500	512	510	509	512	506	502	512	502	509	507	512	512	511	464	380	320	508	511	510	500	512	512	0	
NPRI	BLK2	500	513	512	511	511	509	503	511	504	398	326	319	320	319	355	299	319	508	514	514	503	514	512	518	
PCGP	PGRG	579	599	602	596	597	595	585	602	585	606	599	604	604	600	580	565	602	593	600	603	581	602	602	596	
PGLA	GT11	169	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	126	188	216	188	
PGLA	GT12	186	185	224	174	244	205	174	173	173	180	196	194	173	173	180	178	191	198	229	213	215	235	184	241	
PGLA	ST10	204	136	99	93	114	109	92	92	92	93	93	93	95	93	93	93	92	93	101	97	218	244	214		
PLPS	GT12	40	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	32	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLPS	ST18	46	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SGB3	GT31	101	107	106	105	107	107	104	107	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SGB3	ST34	57	57	56	56	57	57	57	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SKSP	BLK1	217	238	325	198	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TJGS	GT1A	193	179	230	221	230	220	215	142	140	197	182	176	193	163	133	130	146	135	196	203	185	209	197	224	
TJGS	GT1B	187	173	219	216	218	214	208	134	134	189	175	165	183	155	127	122	146	125	187	200	180	199	194	210	
TJGS	ST1C	216	198	245	229	235	248	235	180	177	211	201	198	216	201	187	177	177	192	203	210	220	224	236	242	
TJGS	GT2A	214	177	211	211	211	211	147	147	147	147	147	147	144	144	144	144	143	142	144	143	183	199	211	210	
TJGS	GT2B	211	174	206	208	208	207	207	144	144	144	144	144	142	143	142	144	143	183	199	211	210	210	210	211	211
TJGS	ST2C	258	232	253	253	253	253	253	211	211	211	211	211	211	211	211	211	211	221	236	256	258	258	258	258	
YPKA	GT11	65	64	93	66	65	66	66	66	66	66	65	66	66	66	66	66	66	130	128	129	129	129	127	65	
YPKA	ST10	31	31	37	32	31	31	32	32	32	32	32	31	31	31	31	31	52	51	52	52	53	52	32	31	
Total CCGT-Gas		4852	4540	4692	4484	4504	4434	4223	3857	3560	3593	3483	3473	3507	3418	3310	3130	3197	3786	4157	4472	4590	4764	4629	4360	
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
BSIA	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	0

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			
BSIA	HY02	11	11	12	11	11	11	11	11	11	12	11	12	12	11	11	11	11	12	12	11	11	11	11	11	11	11	11	11	11	12	11	11	11	11	11	11	12	11	12	11	12	11	11	12	12	12	12			
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12	12	0	0	0	0	0			
CEND	HY01	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				
CEND	HY02	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				
CEND	HY03	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				
HTRG	HY01	-1	-1	57	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	126	62	63	63	63	63	125	53	63	125	100	63	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	64	125	62	-1	-1	-1	-1	125	58	-1	125	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1			
KNRG	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	21	20	21	0	0	0	0	0			
KNRG	HY02	23	24	24	23	23	23	23	24	23	24	23	24	24	23	23	23	23	23	24	24	23	23	23	23	23	23	23	23	23	23	23	24	23	24	23	23	23	23	23	24	23	23	24	23	24	24	23			
KNYR	HY01	106	105	106	105	106	106	105	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	105	106	106	106	106	106	105	105	106	106	106	105	105	106	106	106	106	106	106	106	106	106	106	106	106			
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	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	105	104	105	105	104	104	105	105	105	105	105	105	105	105	104	104	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105			
KNYR	HY04	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105			
LPIA	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	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
LPIA	HY02	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	18	20	20	20	20	20	20	20	17	17	17	17	17	17	17	20	20	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	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			
PGAU	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	15	-1	22	-1	-1	-1	-1	-1	-1	-1	-1	82	82	-1	-1	-1	-1	-1	81	21	21	21	-1	-1	-1	-1	-1			
PGAU	HY02	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	19	-1	83	-1	-1	-1	-1	-1	-1	-1	83	83	83	-1	-1	-1	-1	-1	22	21	21	-1	-1	-1	-1	-1	-1			
PGAU	HY03	-1	-1	-1	-1	-1	21	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2	82	22	22	16	-1	-1	-1	-1	-1	22	22	25	21	21	-1	-1	81	81	82	-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	51	51	51	51	51	51	50	51	50	50	50	12	0	0	0	0	0	0	0	0	0	51	51	31	30	31	31	31	31	0
SIHY	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	0			
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	0			
SYPS	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	0			
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	0			
SYPS	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	0		
TMGR	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				
TMGR	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	54	54	52	-1	-1	-1	-1	54	55	53	55	-1	-1	-1	-1	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
TMGR	HY04	31	34	34	34	34	34	33	34	32	34	34	34	34	32	29	34	34	34	34	34	31	34	34	34	32	33	30	34	32	31	34	53	53	51	29	31	-1	33	53	51	53	33	31	33	33	33	0			
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	95	-1	-1	-1	-1	-1	66	-1	-1	96	2	-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	-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	4	4	4	4	4	4	4	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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	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		536	539	600	538	560	562	538	539	536	541	539	541	541	540	537	534	539	542	683	717	728	735	845	1250	856	796	787	770	771	1024	748	672	1366	1022	906	645	649	597	635	1251	1095	1044	948	768	731	702	703	574		
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				
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	7	10	12	12	14	13	16	14	7	7	6	6	13	3	3	4	2	1	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	0	0	0	0	0	6	7	10	11	16	31	23	18	28	47	46	30	24	28	19	11	8	35	11	19	12	6	4	1	1	1	0	0		

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		
Total Co-Gen		69	69	69	70	62	52	45	46	47	48	48	47	47	45	40	41	38	41	41	23	5	5	7	9	4	6	6	6	5	5	6	6	5	8	6	5	4	10	6	3	6	6	23	29	24	27	29	27	
Total Gen		14390	13988	13765	13366	13175	13059	12790	12725	12417	12469	12356	12345	12379	12284	12184	11981	12094	12709	13283	13868	14176	14506	14667	14817	14549	14286	14259	14442	14498	14723	14599	14681	14840	14793	14745	14484	14503	14373	14603	15582	15460	15306	15207	15019	14843	14693	14445	14293	
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		31	31	30	30	31	31	31	31	30	30	30	30	31	31	30	30	31	31	30	30	31	31	29	29	29	29	30	31	30	30	30	31	32	30	29	29	29	31	29	30	32	31	29	29	31	31	29		
TIE-PLTG		-27	-27	10	-28	-15	-14	-2	-25	-20	-25	-9	-69	-11	-13	16	-15	-26	-15	-22	32	-3	-19	3	-43	25	-45	39	-42	-36	1	-32	-48	-9	-56	-25	10	13	-14	7	-38	-18	-12	-4	-69	-21	-92	-59	-21	
Interconnection		4	3	40	2	15	17	29	6	10	5	21	-38	20	18	46	15	4	16	8	62	28	12	31	-14	55	-15	69	-11	-6	32	-2	-18	23	-24	5	39	42	16	39	-9	13	19	28	-40	8	-61	-27	8	
System Total		14398	13997	13737	13376	13172	13054	12773	12731	12419	12476	12347	12395	12371	12278	12150	11978	12102	12705	13287	13818	14160	14506	14648	14843	14506	14313	14202	14465	14516	14703	14613	14711	14829	14829	14752	14457	14473	14369	14576	15603	15459	15299	15191	15071	14847	14766	14484	14297	
SRev ST-Coal		300	386	319	362	376	362	388	391	149	136	137	139	139	142	126	149	136	147	148	282	313	314	355	313	320	323	319	307	308	334	282	328	337	297	301	280	310	297	313	238	242	246	246	216	235	229	381	476	
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		
SRev CCGT-Gas		956	1139	477	685	665	400	611	977	1097	1028	1138	1148	1114	1203	1311	1491	1424	835	695	380	262	217	352	238	219	467	489	279	254	259	432	283	317	710	690	827	727	794	330	245	385	484	503	547	662	570	669	589	
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	0
SRev Co-Gen		6	6	6	5	13	23	30	29	28	27	27	28	28	30	35	34	37	34	34	52	70	70	68	66	71	69	69	69	70	70	69	69	70	67	69	70	71	65	69	72	69	69	52	46	51	48	46	48	
Syncon		1253	1253	1127	1253	1102	1102	1253	1253	1253	1253	1253	1253	1253	1253	1253	1253	1165	1165	1165	1014	888	762	273	850	890	890	1041	1041	728	915	1041	0	313	651	1016	1016	1339	1253	439	626	626	928	1167	1167	1167	1167	1167		
Hydro		112	109	174	110	239	237	110	109	112	107	109	107	107	108	111	114	109	107	116	132	272	266	407	491	395	330	339	205	204	264	353	203	635	666	468	340	336	150	198	583	552	603	397	251	288	232	231	160	
S.Reserve Total		2627	2893	2103	2415	2395	2124	2392	2759	2639	2551	2664	2675	2641	2736	2836	3041	2959	2288	2158	2011	1931	1755	1944	1381	1855	2079	2106	1901	1877	1655	2051	1924	1359	2053	2179	2533	2460	2645	2163	1577	1874	2028	2126	2227	2403	2246	2494	2440	