

Daily System Generation Summary on Friday

Friday, March 5, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,235 MW
Distillate	0 MW
Total TNB	2,235 MW
Total IPP	17,636 MW
Total Co-Gen	0 MW
Total System	23,434 MW

Generation Mix

Type	MWh	Percentage
Hydro	19,476	5.12 %
Gas	48,579	12.78 %
Total TNB	68,055	17.90 %
ST-Coal	240,495	63.27 %
LSS	3,465	0.91 %
Gas	68,196	17.94 %
Total IPP	312,156	82.12 %
Co-Gen	183	0.05 %
Total Co-Gen	183	0.05 %
Total Generation	380,394	100.08 %
PLTG	987	0.26 %
HVDC	-700	-0.18 %
Interconnection	287	0.08 %
Net Energy	380,107	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	19,159 MW
TNB Generation	3,720 MW
IPP Generation	14,165 MW
Spinning Reserve	1,266 MW
Maximum Demand	17,918 MW
Net Energy	380,107 MWH
Load Factor	88.39 %

Fuel Cost

Total Cost:	47,794,985.54 RM
Cost per Unit	12.56 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	342
Hydro	543
Syncon	391
Thermal	183
Total	1,459

Time Weather Temperature

Afternoon	Hot	34
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	57
SRDG	8
TJGS	93
Total TNB	159
CBPS	51
KLPP	11
NPRI	135
PGLA	103
PLPS	64
YPKA	37
Total IPP	400
Total Gas	558
Total Gas Required	558

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	15921	15208	14608	14200	13774	13489	13463	13576	13688	15284	16079	16715	16842	16671	17116	17742	17918	17454	16271	15979	17267	17206	16764	16525

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 6, 2021 11:38:58 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

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	693	688	692	692	689	694	601	654	651	553	499	502	503	552	551	524	517	656	694	691	692	691	693	692	692	693	694	692	694	694	692	694	694	692	692	693	694	700	692	693	691	691	692						
JMAH	U002	696	697	696	698	694	695	604	654	655	547	503	506	506	555	555	526	510	657	689	699	695	698	694	694	696	697	699	696	696	696	696	694	695	697	696	692	696	692	697	697	696	697	696	697	695				
JMHE	U001	975	980	980	978	973	976	981	863	870	875	867	871	870	872	873	874	870	869	980	976	978	978	980	980	978	978	979	977	978	975	978	980	978	981	983	977	977	974	983	976	973	975	977	973	979	973	979	982	
JMHE	U002	976	979	980	981	975	976	986	864	869	867	867	869	871	869	871	873	867	870	987	981	982	981	980	980	977	979	982	979	984	978	977	982	980	979	975	978	979	977	983	982	979	977	981	978	979	975	980	984	
JMJG	U001	625	633	633	626	624	628	621	626	536	621	628	629	626	624	630	629	643	670	669	670	671	683	672	672	670	666	672	673	671	672	673	673	672	672	674	668	672	674	672	672	671	674	673	682	666	673	674	671	
JMJG	U002	630	642	616	645	615	634	629	628	623	629	629	627	625	630	623	632	641	675	673	668	666	672	681	673	671	670	671	676	675	672	671	671	678	680	675	676	671	679	671	666	670	685	678	667	671	680	672	669	
JMJG	U003	623	622	624	627	625	626	620	627	629	623	626	626	625	625	628	626	637	651	668	670	671	667	668	670	667	671	668	671	669	670	667	668	671	667	668	662	672	667	674	667	671	670	667	671	660	673	669	668	
JMJG	U004	974	976	976	976	976	977	976	916	873	874	872	874	873	873	874	873	874	874	929	978	979	975	976	976	974	976	976	977	976	974	972	974	972	974	971	972	974	973	977	977	972	973	975	973	975	973	974	974	
JMJG	U005	946	951	862	797	794	800	801	798	801	801	799	800	799	796	798	801	798	797	804	800	789	808	800	798	803	799	801	801	797	806	873	907	915	921	919	926	930	935	937	942	946	948	952	948	955	951	949		
PKLG	U003	277	278	278	280	278	280	278	272	279	279	277	278	278	279	278	280	280	276	277	275	277	276	279	277	276	278	279	278	275	279	278	278	278	276	279	279	280	277	275	277	277	275	276	277	279	279	283		
PKLG	U004	10	25	42	86	82	91	63	99	116	134	156	173	190	187	243	261	278	281	278	284	280	278	279	276	272	279	277	279	279	282	280	280	278	271	278	279	278	276	275	279	275	269	279	279	279	278	283	278	
PKLG	U006	450	445	450	445	450	451	449	448	445	449	445	449	449	445	449	449	448	449	452	444	447	449	450	452	446	448	445	446	448	450	447	449	447	450	448	449	448	446	449	446	446	445	449	449	450	449	453	449	
TBIN	U001	668	669	670	684	689	691	689	691	690	691	690	689	689	690	689	691	690	688	689	689	690	689	688	689	690	690	687	689	690	686	687	690	689	689	689	690	688	687	689	689	690	690	689	689	691	690	690	689	683
TBIN	U002	672	674	673	686	683	692	693	693	693	687	690	692	695	686	692	693	682	689	691	689	693	691	690	694	691	692	692	690	695	689	692	690	691	692	690	690	695	692	689	691	690	697	692	690	690	692	693		
TBIN	U003	673	674	673	688	691	691	692	693	689	692	692	691	695	691	693	700	686	690	689	690	691	690	688	691	687	688	693	690	691	691	689	692	687	693	689	693	691	687	685	691	687	685	691	683	693	690	690	697	
Total ST-Coal		9888	9933	9845	9889	9838	9902	9683	9526	9419	9322	9240	9276	9294	9374	9447	9429	9432	9789	10159	10212	10206	10210	10224	10214	10192	10207	10205	10226	10214	10200	10205	10285	10320	10324	10329	10319	10326	10342	10357	10337	10333	10347	10365	10363	10347	10365	10373	10367	
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		
CBPS	BLK2	366	373	370	371	380	369	258	215	224	220	217	224	217	217	218	218	229	364	358	357	362	363	362	362	360	363	362	363	362	360	361	361	362	354	356	362	321	358	358	363	365	367	362	358	355	355	354	360	
GLGR	GT01	99	100	101	100	101	99	101	100	101	102	100	100	101	101	100	101	102	101	101	100	101	99	100	99	99	100	99	98	100	99	99	99	99	98	100	99	101	100	99	99	99	98	99	100	100	101	101		
GLGR	GT02	100	100	100	100	101	100	101	101	101	101	101	101	101	101	100	101	100	100	100	100	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	101	100	100	100	100	100	100	100	100	101	101			
GLGR	ST1C	91	91	91	91	91	90	91	91	91	91	90	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	91	91	91	91			
KLPP	GT15	137	141	137	138	142	138	142	137	143	137	138	137	137	91	27	0	0	0	0	0	0	0	0	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	ST17	49	47	48	59	50	47	50	47	49	49	47	47	48	51	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
NPRI	BLK1	492	506	500	398	340	335	334	334	337	336	335	335	335	335	335	335	335	335	334	398	515	515	515	515	512	515	516	515	516	515	515	513	515	506	506	511	459	514	515	519	514	518	516	513	506	503	505	515	
NPRI	BLK2	447	320	314	321	322	314	325	312	320	320	310	317	314	314	310	313	323	325	320	398	455	455	455	456	449	455	457	455	458	455	452	455	454	446	446	449	438	456	458	464	457	456	455	452	447	443	444	455	
PCGP	PGRG	583	502	402	262	265	261	273	261	261	262	261	260	259	260	262	263	265	267	401	600	602	603	602	602	597	602	604	604	605	602	602	602	603	591	591	598	580	500	503	615	602	604	604	600	590	587	589	606	
PGLA	GT11	164	169	166	169	169	166	171	166	169	169	166	166	166	165	167	169	171	167	168	188	185	168	168	184	188	188	213	216	216	212	213	184	162	168	168	217	212	212	223	223	225	220	218	218	215				
PGLA	GT12	167	173	170	172	172	168	175	169	172	172	169	171	169	169	167	170	174	173	170	171	172	172	181	189	172	171	188	192	191	217	220	219	215	217	186	165	171	173	219	214	226	225	219	219	221	219			
PGLA	ST10	205	206	205	207	207	205	206	208	206	204	206	206	204	204	202	204	206	206	203	206	206	207	207	222	222	209	209	212	222	225	247	242	242	241	241	221	204	208	206	235	241	243	250	249	247	246	242	240	
PLPS	GT11	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	133	133	114	111	114	115	145	140	143	116	116	111	111	111	116</	

Daily MW Generation on Friday

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	22	23	22	22	13	13	13	13	13	13	13	12	13	12	13	13	12	13	23	23	23	23	23	23	12	23	23	23	22	23	22	22	22	22	22	22	22	22	22	22	22	22	22	12	11	11	11	11	11	12		
BSIA	HY03	22	22	22	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22	22	22	22	22	12	23	22	22	22	22	22	22	22	22	22	23	22	22	10	10	10	10	10	10	10	10	10	10			
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	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		
CEND	HY02	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	10	10	9	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	9	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	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
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	-1	-1	-1	123	63	63	63	-1	-1	65	-1	-1	63	126	125	100	-1	-1	62	125	-1							
HTRG	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	64	64	64	63	64	64	63	63	63	63	124	124	100	63	63	63	125	62
KNRG	HY01	36	36	36	36	36	36	36	0	0	0	0	0	0	0	0	0	0	0	0	0	22	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	23	23	23	23	23	23	23	23	23	23	23	23	23	
KNRG	HY02	37	37	37	37	37	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	23	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	22	23	23	37	37	21	21	20	21	20	21	20	22		
KNRG	HY03	36	36	36	36	36	36	36	24	23	23	23	23	24	23	24	23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	24	24	24	36	36	36	21	21	20	21	20	21	20	21		
KNYR	HY02	98	102	99	102	102	99	101	100	100	98	100	99	98	98	98	100	101	95	100	98	100	99	102	102	100	100	101	100	102	101	100	102	100	99	101	57	100	99	102	102	102	102	100	59	58	58	58	60				
KNYR	HY03	97	101	98	101	102	98	100	99	100	97	99	99	98	97	97	97	100	100	95	99	98	99	99	100	99	100	99	102	101	100	101	99	98	100	56	100	99	101	102	103	102	99	58	58	58	57	59					
KNYR	HY04	98	103	99	102	103	100	101	101	101	98	100	100	99	99	98	98	101	101	96	100	99	100	100	100	102	101	101	101	103	102	101	102	100	99	101	57	101	100	103	103	104	103	100	59	58	58	58	60				
LPIA	HY01	16	16	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16				
LPIA	HY02	16	16	15	15	15	15	15	15	15	15	15	15	15	15	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	16	16			
MNOR	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	0	0	0	0	0	0	0	0	0	0	0	0		
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	-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			
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	-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			
PGAU	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	0	0	0	0		
PGAU	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	0	0	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	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	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	0	0	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	0	0	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	0	0	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	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	0	0	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	0	0	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	0	0	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	80	82	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	35	86	86	82	35	35	34	35	83	82	82	82	81	33	-1	30	82	44	76	68	71	43	42	43	40	42	52					
TMGR	HY02	0	0	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0	0	0	34	34	34	34	34	34	34	34	87	86	86	86	85	86	34	31	89	89	89	88	87	86	87	85	32	32	34					
TMGR	HY03	82	85	31	32	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	85	85	85	85	33	33	33	85	85	85	85	83	85	32	28	82	82	82	82	82	82	82	81	30	30	32						
TMGR	HY04	39	55	41	41	83	41	83	40	77	41	40	41	42	41	40	43	70	82	41	41	41	63	59	43	42	42	42	47	51	65	59	43	58	40	41	41	38	0	0	0	0	0	86	-1	29	28	29	31				
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	-1	-1	-1				
UPIA	HY01	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
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	4	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		741	776	611	621	613	528	575	530	483	460	443	444	463	440	437	442	480	494	469	483	481	639	887	941	938	770	719	725	819	1181	1388	1387	1310	1279	983	742	677	1006	949	1292	1541	1486	1									

Daily MW Generation on Friday

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
SPLS	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
SSLS	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
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	0
Total 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
PCUF	CUFG	3	4	5	5	4	4	5	5	4	5	4	6	5	6	5	5	5	5	4	3	4	5	4	4
PCUF	CUFK	4	1	3	2	2	4	3	3	4	4	3	4	4	2	2	4	4	2	4	3	3	3	2	2
Total Co-Gen		7	5	8	7	6	8	8	8	9	7	10	9	10	6	7	8	10	8	9	8	9	8	8	7
Total Gen		15954	15597	15224	15020	14594	14480	14168	13963	13759	13626	13510	13459	13478	13590	13548	13510	13618	14567	15215	15699	16073	16413	16711	16840
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
TIE-HVDC		-29	-29	-30	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-30	-30	-29	-29	-30	-30	-29	-29	-29
TIE-PLTG		70	62	54	40	24	67	5	61	22	-12	59	41	51	50	9	9	-33	-33	-32	-4	31	22	32	39
Interconnection		41	32	24	10	-6	37	-24	32	-7	-41	29	11	23	21	-20	-21	-62	-62	-61	-33	2	-8	4	11
System Total		15921	15573	15208	15018	14608	14451	14200	13939	13774	13675	13489	13456	13463	13577	13576	13539	13688	14637	15284	15740	16079	16429	16715	16837
SRev ST-Coal		379	374	457	308	363	305	468	609	656	684	657	684	671	684	698	664	628	508	232	179	183	179	165	175
SRev CCGT-Gas		679	971	1094	1277	1643	1738	1878	1881	1931	1945	1960	2051	2068	2014	2122	1925	1890	1385	1157	813	512	377	392	327
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
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
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
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
Syncon		741	741	916	916	916	1003	1003	1003	852	1003	915	764	915	915	915	915	915	915	915	915	828	590	464	464
Hydro		119	84	161	151	111	109	62	107	74	248	114	114	246	118	121	116	78	69	180	166	168	225	215	287
S.Reserve Total		1918	2170	2628	2652	3033	3155	3411	3600	3664	3729	3734	3764	3749	3731	3856	3620	3511	2877	2484	2073	1778	1609	1362	1253