

Daily System Generation Summary on Saturday

Saturday, March 18, 2023

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	1,660 MW
Distillate	0 MW
Total TNB	1,660 MW
Total IPP	17,176 MW
Total Co-Gen	0 MW
Total System	22,544 MW

Generation Mix

Type	MWh	Percentage
Hydro	11,275	3.15 %
Gas	62,444	17.45 %
Total TNB	73,719	20.60 %
ST-Coal	200,983	56.15 %
LSS	6,970	1.95 %
Gas	75,279	21.03 %
Total IPP	283,232	79.13 %
Co-Gen	808	0.23 %
Total Co-Gen	808	0.23 %
Total Generation	357,759	99.96 %
PLTG	843	0.24 %
HVDC	-999	-0.28 %
Interconnection	-156	-0.04 %
Net Energy	357,915	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:	20:30:00 Hour
Total Set On Bus	17,780 MW
TNB Generation	4,446 MW
IPP Generation	12,302 MW
Spinning Reserve	1,004 MW
Maximum Demand	16,713 MW
Net Energy	357,915 MWH
Load Factor	89.23 %

Fuel Cost

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,264
Hydro	269
Syncon	580
Thermal	282
Total	2,395

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	24

Gas Usage

Station	(mmscfd)
GLGR	29
SRDG	5
TJGS	173
Total TNB	207
EMPP	272
NPRI	72
PCGP	64
PLPS	45
SGRI	2
SKSP	47
SPGP	208
Total IPP	710
Total Gas	917

Total Gas Required 917

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	15951	15151	14556	14096	13533	13327	13289	13151	12746	13807	14480	14909	14876	14833	15404	15674	15755	15615	15243	15456	16670	16620	16221	15927

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Tuesday, April 4, 2023 9:43:05 AM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

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																									
JMHE	U001	966	974	974	974	975	910	903	901	897	898	852	848	850	852	847	852	851	850	851	885	950	948	951	950	951	951	952	949	964	977	967	973	970	974	979	975	976	972	974	977	974	971	974	974	976	972	974	974	977
JMHE	U002	971	977	973	974	974	918	902	900	898	901	851	850	850	852	849	853	852	851	849	878	951	947	949	949	952	953	948	950	961	972	972	973	970	973	978	975	976	975	974	974	974	972	974	975	975	973	974	977	
JMJG	U001	681	673	677	679	673	680	678	672	675	677	679	675	678	681	676	679	678	678	680	671	679	678	676	672	678	679	677	676	682	673	677	677	673	678	679	678	679	677	681	677	677	677	679	681	596	510	441	439	
JMJG	U002	679	683	679	676	682	681	681	683	679	685	678	673	679	679	680	679	679	676	680	665	668	673	677	681	678	677	678	681	680	681	680	683	678	679	681	682	679	680	675	679	681	681	679	678	677	677	680		
JMJG	U003	677	676	677	677	675	678	674	678	673	677	677	678	677	679	676	678	677	677	677	679	677	680	679	679	679	678	675	629	590	590	590	600	609	610	675	678	680	681	676	676	679	675	680	673	677	679	679	677	
JMJG	U004	977	975	975	976	974	963	913	908	908	910	895	880	858	856	857	855	856	855	856	862	922	954	956	955	955	954	953	956	964	979	980	981	977	979	975	980	977	975	974	974	974	972	973	972	974	972	973	972	
JMJG	U005	972	972	971	973	972	943	903	898	900	902	848	848	851	851	848	852	848	850	849	872	927	950	953	949	950	951	950	946	963	982	976	977	975	976	977	977	977	972	977	975	972	971	972	974	724	726	729	729	735
PKLG	U003	278	277	278	277	277	277	277	277	278	277	277	279	273	275	276	278	278	278	278	279	278	277	276	277	278	276	273	278	276	279	277	278	277	278	279	277	276	277	278	276	277	277	276	279	278	278	277		
PKLG	U004	275	272	268	273	274	274	275	272	273	274	275	276	275	274	275	273	271	274	281	276	271	273	275	274	268	273	263	272	269	261	272	267	266	266	271	276	276	270	274	267	268	275	274	274	269	271	276	275	
PKLG	U006	449	449	450	449	445	446	449	446	446	447	447	446	448	446	435	447	449	450	449	448	449	448	450	447	447	449	447	449	449	447	447	450	449	449	450	449	446	447	449	449	451	449	450	449	449	448	449		
TBIN	U001	701	698	696	699	698	700	700	696	697	698	698	699	704	697	699	695	693	699	698	698	698	699	697	695	698	698	699	697	703	700	695	697	700	702	702	696	700	698	701	699	694	699	697	696	701	699	697		
TBIN	U004	981	981	983	983	982	961	904	903	903	904	861	852	854	854	852	852	853	853	854	865	953	953	952	952	953	953	953	953	970	982	982	983	981	981	984	984	982	982	983	984	984	982	982	983	980	982	982	983	
Total ST-Coal		8607	8607	8601	8610	8601	8431	8259	8234	8226	8251	8038	8002	8003	7994	7968	7991	7985	7994	7998	8093	8420	8474	8489	8478	8487	8493	8466	8435	8466	8527	8521	8531	8528	8542	8627	8635	8622	8610	8613	8604	8604	8599	8616	8358	8275	8193	8130	8137	
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
EMPP	BLK1	676	679	668	412	411	411	412	410	400	400	400	407	410	411	406	408	410	409	409	411	410	410	411	438	408	410	411	671	710	708	685	709	707	711	704	708	703	709	710	709	711	710	710	709	710	709	710	691	711
EMPP	BLK2	677	679	668	583	710	643	650	414	399	399	399	407	410	411	408	411	410	472	539	637	508	600	634	702	651	545	496	714	710	705	685	709	708	711	701	710	708	708	710	709	711	709	709	708	710	710	691	711	
EMPP	BLK3	676	679	669	713	709	710	683	702	583	410	410	407	410	411	410	411	410	475	540	654	709	709	705	710	692	654	709	715	709	704	684	711	707	710	701	709	708	708	709	709	711	710	709	707	709	710	690	710	
GLGR	GT02	92	93	92	93	93	92	93	93	92	92	92	92	93	93	92	93	93	93	93	93	92	92	92	92	92	92	92	92	92	92	93	92	93	92	93	93	92	93	93	109	109	109	110	109	109	109	109		
GLGR	ST1C	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	47	48	49	48	48	48	48	48			
NPRI	BLK1	506	484	310	331	337	337	334	332	319	326	331	324	329	335	330	331	332	332	332	332	332	333	332	332	332	333	334	347	461	477	454	514	513	511	511	511	514	513	514	514	514	517	518	521	517	521	512	512	525
NPRI	BLK2	510	398	398	296	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PCGP	PGRG	574	578	562	601	604	603	603	601	574	593	595	585	593	608	596	398	402	404	403	298	300	299	301	301	300	299	300	314	303	299	293	301	295	300	299	300	301	303	299	303	304	306	301	304	300	310	290	302	
PLPS	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	0	0	0	0	4	63	144	145	149	149	150	152	152	153	153	
PLPS	GT13	125	125	125	124	125	125	124	125	125	125	125	126	125	124	125	124	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	124	125	123	123	123	123	123	123	122	122	122	122	123		
PLPS	ST18	58	58	58	58	58	58	58	58	58	58	58	57	58	58	58	57	58	58	57	58	58	58	58	57	58	58	58	58	58	58	58	58	57	57	58	58	116	142	143	142	143	143	143	144	143	143	143	143	
SGRI	GT13	102	102	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	ST14	60	58	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SKSP	BLK1	226	222	222	223	222	225	219	223	221	222	222	224	222	223	222	224	221	222	221	223	223	221	221	224	223	224	223	223	222	223	223	224	223	308	223	221	223	223	260	336	337	337	336	337	338	338	333	339	
SPGP	BLK1	714	713	714	719	719	720	719	719	719	720	720	718	720	719	718	600	478	673	716	715	721	718	720	719	719	717	720	719	718	718	718	717	717	719	716	717	718	720	719	719	719	719	720	720	719	717	717	717	720
SPGP	BLK2	719	719	718	720	719	721	720	720	719	720	720	719	720	719	719	656	486	701	716	716	719	717	719	719	713	707	704	701	704	706	701	706	715	707	703	706	710	719	718	716	717	718	719	717	719	717	717	717	720
TJGS	GT1A	152	119	114	125	127	128	127	128	1																																								

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	
HTRG	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	68	69	69	69	
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	
HTRG	HY04	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY01	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	34	34	34		
KNRG	HY02	22	22	22	23	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	35	35	35	35	
KNRG	HY03	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	36	35	35	35	
KNYR	HY01	59	59	59	60	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	60	60	60	60	60	96	97	97	97	
KNYR	HY02	60	59	62	94	89	62	61	61	60	60	60	60	73	61	60	61	71	66	61	64	61	99	85	99	
KNYR	HY03	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	55	94	94	95	96	
KNYR	HY04	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
SIHY	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	0	0	0	0	
SIHY	HY02	0	0	0	0	0	0	0	0	0	22	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	25	25	25	25	25	25	25	17	
SYPS	HY03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	25	25	25	25	25	25	17	
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	HY02	83	83	81	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TMGR	HY03	29	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	38	38	36	73	84	77	48	72	39	42	42	63	49	85	80	51	86	81	82	64	85	85	83	81	
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	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	
UPIA	HY02	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	
Total Hydro		473	343	336	413	272	237	207	231	196	200	221	221	209	259	241	204	238	244	239	216	241	238	235	233	200
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	6	9	14	17	19	22	24	25	24
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	6	13	16	25	30	27	31	22
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	16	20	24	28	31	31	32	32
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	16	24	30	34	38	41	43	45	46
GBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	10	18	24	16	35	22	17	35	18
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	11	16	20	25	27	29	29	30	30
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	16	21	29	31	35	39	36	45	47
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	13	17	22	26	28	30	31	22	31
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	11	17	23	33	35	43	46	43	49
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	21	33	42	53	65	76	83	86	93	84
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	11	16	20	26	34	37	40	43	47	23
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	11	14	18	23	27	29	30	30	29
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	13	26	35	56	71	83	92	59	52	99
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	15	19	22	21	22	23	10	26
MALS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	13	15	16	21	26	29	15	11	10	29
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	23	26	20	42	43	47	48	49
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	26	53	70	79	68	86	91	93	93	94
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	32	52	74	79	95	100	103	108	110	110
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	12	21	30	37	44	49	52	49	52
SSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	17	23	29	34	35	35	35	35	35
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	5	5	4	7	14	11	12	13	13

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		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	19	28	30	30	30	30	30	30	30	30	30	30	30	30	30	30	29	15	13	2	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	11	118	294	443	599	675	836	912	920	927	965	959	874	896	728	695	736	688	598	353	324	242	131	25	4	0	0	0	0	0	0	0	0	0
ESTL	ESTL	22	18	15	19	19	18	20	22	24	23	22	24	22	17	22	23	24	19	21	24	23	26	26	28	28	21	27	9	11	10	15	12	21	13	21	18	10	12	11	13	19	14	9	13	14	12	20	22	
KHTC	BLK1	0	0	0	0	0	0	0	0	2	3	4	3	2	3	2	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1			
PCUF	CUFG	3	3	3	3	4	2	5	4	3	4	4	4	4	4	1	4	4	4	4	5	3	4	3	3	3	3	4	2	3	2	2	3	3	4	4	4	2	4	3	4	4	3	4	5	3				
PCUF	CUFK	7	8	7	5	7	6	7	8	6	7	7	7	8	7	4	7	8	8	8	9	6	8	6	7	5	8	8	5	5	7	7	6	4	6	7	8	8	6	8	7	6	7	8	7	7				
PFTZ	PFTZ	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	1	2	2	2	2	2	1	1	2	1	2	2	2	2	4	4	5	5	5	5	5	5	5	5	5	5			
Total Co-Gen		37	34	30	32	35	31	37	39	40	42	42	43	41	36	34	43	43	37	37	42	37	43	36	40	38	34	40	19	19	22	25	22	30	26	36	35	27	25	28	28	35	28	24	29	30	28	40	38	
Total Gen		15985	15514	15144	14823	14509	14237	14011	13797	13547	13454	13263	13225	13235	13296	13220	12857	12703	13421	13764	14108	14467	14768	14881	14991	14860	14802	14836	15230	15448	15555	15660	15810	15788	15959	15628	15473	15262	15231	15516	16270	16757	16776	16696	16496	16210	16064	15908	15890	
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	-30	-30	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-30	-48	-50	-50	-48	-48	-50	-48	-48	-49	-49	-47	-49	-49	-49	-48	-48	-50	-50	-49	-49	-50	-50	-48	-50	-50	-48	-51	-47	-51	-28	-29	-31		
TIE-PLTG		62	-7	23	-20	-18	29	-56	-22	43	17	-36	13	-25	19	99	48	7	0	5	-22	35	-7	20	7	33	51	51	62	93	48	34	44	83	53	62	64	69	98	108	99	137	111	127	40	40	-50	10	2	
Interconnection		34	-35	-7	-49	-47	0	-85	-51	14	-12	-64	-16	-54	-11	69	0	-43	-51	-43	-71	-13	-57	-28	-41	-16	2	3	13	44	-1	-14	-4	33	4	13	15	19	47	60	49	87	63	76	-7	-11	-78	-19	-29	
System Total		15951	15549	15151	14872	14556	14237	14096	13848	13533	13466	13327	13241	13289	13307	13151	12857	12746	13472	13807	14179	14480	14825	14909	15032	14876	14800	14833	15217	15404	15556	15674	15814	15755	15955	15615	15458	15243	15184	15456	16221	16670	16713	16620	16503	16221	16142	15927	15919	
SRev ST-Coal		188	188	194	185	194	364	536	557	561	541	555	559	547	552	567	561	562	554	546	557	375	321	306	317	308	302	329	360	239	178	184	174	252	238	153	160	173	185	182	191	191	196	179	162	180	192	175	177	
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	18	37	38	1	1	36	-1	0		
SRev CCGT-Gas		838	1040	1393	1486	1353	1416	1446	1661	1869	1993	1992	1995	1972	1947	1977	2346	2635	2102	1907	1796	1860	1777	1745	1634	1746	1897	1883	1380	1246	1046	1032	872	828	600	723	826	908	872	782	544	511	512	507	510	505	498	589	494	
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		
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		
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	-3	0	
Syncon		727	727	727	727	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	828	727	727	727	727	727	727	727	727	727	727	727	727	626	126	0	0	0	0	187	374	374	374	
Hydro		340	219	202	125	78	113	143	119	154	150	154	129	141	91	109	146	112	106	111	134	109	112	115	117	150	198	151	123	192	231	291	162	185	162	220	150	176	118	311	503	310	259	356	337	359	206	257	248	
S.Reserve Total		2093	2261	2603	2610	2627	2895	3127	3339	3586	3686	3703	3685	3662	3592	3655	4055	4311	3764	3566	3402	3259	3125	3081	2983	3119	3211	3177	2677	2491	2269	2134	2022	2079	1814	1910	2037	2158	2076	2075	1364	1030	1004	1080	1010	1232	1306	1391	1293	