

Daily System Generation Summary on Thursday

Thursday, February 3, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,475 MW
Distillate	0 MW
Total TNB	2,475 MW
Total IPP	14,900 MW
Total Co-Gen	0 MW
Total System	20,934 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,632	7.12 %
Gas	41,338	12.46 %
Total TNB	64,970	19.58 %
ST-Coal	147,558	44.48 %
LSS	3,734	1.13 %
Gas	113,252	34.14 %
Total IPP	264,544	79.74 %
Co-Gen	1,099	0.33 %
Total Co-Gen	1,099	0.33 %
Total Generation	330,613	99.66 %
PLTG	-306	-0.09 %
HVDC	-823	-0.25 %
Interconnection	-1,129	-0.34 %
Net Energy	331,742	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:	20:30:00 Hour
Total Set On Bus	17,176 MW
TNB Generation	3,941 MW
IPP Generation	11,548 MW
Spinning Reserve	1,637 MW
Maximum Demand	15,560 MW
Net Energy	331,742 MWH
Load Factor	88.83 %

Fuel Cost

Total Cost:	82,876,952.31 RM
Cost per Unit	25.10 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	863
Hydro	541
Syncon	230
Thermal	279
Total	1,913

Time	Weather	Temperature
Afternoon	Cloudy	33
Morning	Cloudy	27

Gas Usage

Station	(mmscfd)
GLGR	53
TJGS	160
Total TNB	213
CBPS	45
EMPP	310
NPRI	163
PCGP	77
PGLA	64
PLPS	75
SKSP	4
SPGP	76
Total IPP	814
Total Gas	1,027
Total Gas Required	1,027

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	13510	13011	12523	12183	11776	11578	11576	11741	12107	13318	14101	14348	14439	14486	14999	15263	15332	15098	14427	14501	15534	15557	15038	14848

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Wednesday, March 2, 2022 3:19:34 PM
(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Thursday

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	502	505	507	507	506	506	508	508	506	508	509	400	407	407	405	407	406	497	555	652	691	693	698	694	696	696	697	695	696	697	696	696	695	693	695	696	695	696	691	690	692	693	694	693	695				
JMHE	U001	752	749	753	751	751	750	753	751	748	750	751	750	750	749	751	750	749	750	750	852	847	846	853	848	848	849	849	848	852	848	850	851	849	849	851	849	847	852	853	850	848	846	851	852	849	851	850	852	
JMHE	U002	752	749	752	755	750	750	753	752	750	751	752	750	750	753	751	751	749	749	752	852	846	851	851	848	851	852	850	849	850	848	850	855	852	850	849	852	851	853	850	849	850	849	850	849	850	852	853		
JMJG	U002	668	666	668	671	666	665	672	666	667	667	667	671	664	668	667	667	667	672	666	666	671	672	650	643	644	648	651	644	645	646	649	650	646	644	652	654	649	651	645	642	651	649	651	650	645	650	649	679	
JMJG	U004	755	758	757	755	758	757	757	759	757	756	758	756	756	756	757	757	782	835	859	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
JMJG	U005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	32	65	155	160	
PKLG	U003	254	256	254	255	255	256	253	253	252	255	253	255	255	254	253	254	253	252	251	255	256	255	253	253	252	255	253	254	255	255	256	254	252	256	253	252	254	256	255	258	253	253	255	253	257	252	253		
PKLG	U004	278	279	279	279	277	272	276	276	274	275	274	275	279	276	276	277	280	278	288	279	275	278	277	277	277	270	277	277	279	279	280	282	276	275	278	281	276	278	279	276	271	273	282	279	277	275	278	279	
PKLG	U006	445	445	448	446	449	446	449	449	450	451	449	447	449	445	451	452	450	450	446	449	447	448	449	442	449	449	444	447	447	448	448	449	449	445	446	446	447	447	449	446	449	445	446	445	444	442	448		
TBIN	U001	689	689	688	690	690	686	691	598	601	552	521	501	501	500	501	501	501	554	604	653	689	686	687	688	689	687	686	687	688	687	688	689	688	689	688	686	686	686	686	686	686	686	686	686	686	686	686	686	689
TBIN	U002	690	688	692	688	690	689	694	645	601	553	543	503	504	504	503	503	503	554	602	656	691	689	693	692	691	691	691	690	689	686	693	689	690	690	689	689	689	689	689	689	689	689	689	689	689	689	691	692	
TBIN	U003	688	690	688	692	690	688	689	653	605	555	532	501	504	503	503	503	503	562	606	657	688	689	695	690	690	689	691	690	694	690	689	690	690	694	690	690	690	690	690	690	690	690	690	690	690	690	691	692	
Total ST-Coal		6473	6474	6486	6489	6482	6465	6495	6310	6211	6073	6009	5807	5819	5816	5818	5821	5819	6101	6356	6826	6100	6107	6108	6062	6081	6083	6096	6077	6094	6084	6097	6098	6087	6092	6094	6091	6079	6095	6092	6085	6085	6075	6087	6127	6109	6151	6245	6292	
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	361	362	361	361	355	222	218	216	219	220	214	214	221	219	219	217	224	310	230	218	262	217	297	217	210	215	234	251	223	345	359	344	351	351	301	317	208	219	268	362	356	342	364	360	355	359	355	356	
EMPP	BLK1	710	709	712	710	709	709	707	707	706	709	704	706	710	708	551	552	651	650	710	711	702	700	706	707	698	611	550	650	711	707	708	703	707	711	703	710	629	500	500	650	708	706	709	711	706	710	709	706	
EMPP	BLK2	709	710	711	709	710	709	708	707	706	709	703	708	710	708	550	550	649	650	710	710	703	700	707	707	698	601	551	651	710	707	708	703	707	711	704	709	630	501	500	650	709	706	708	712	706	710	709	706	
EMPP	BLK3	766	768	767	770	768	767	768	769	769	769	771	769	767	768	768	769	768	765	763	764	775	759	747	753	743	738	738	740	737	728	750	753	757	765	769	768	771	768	767	769	769	769	769	768	770	767	767	768	
GLGR	GT01	103	67	67	68	68	70	68	68	67	68	68	68	69	68	67	68	67	69	69	68	68	87	105	103	104	103	104	105	104	104	104	105	105	105	105	103	105	105	106	103	103	104	104	105	67	68	67		
GLGR	GT02	104	67	68	68	68	68	68	68	68	68	68	68	68	68	68	68	69	69	68	68	89	104	104	104	104	104	104	104	104	104	104	105	104	104	104	104	105	104	104	104	104	104	104	104	67	68	68		
GLGR	ST1C	93	78	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	80	93	93	93	93	93	93	94	94	94	94	93	93	93	93	93	93	93	93	93	93	93	93	93	73	71	71			
NPRI	BLK1	524	527	529	529	529	530	524	521	521	523	520	527	529	523	529	529	531	532	530	529	520	518	523	524	518	509	526	526	523	523	526	520	523	526	519	522	507	523	529	526	524	522	526	524	529	529	522		
NPRI	BLK2	514	517	518	517	520	519	514	511	511	512	508	514	520	511	518	517	518	520	518	519	508	506	512	512	506	500	520	516	518	514	517	509	513	515	509	514	497	513	520	518	517	512	517	516	514	520	519	510	
PCGP	PGRG	594	599	603	602	604	502	302	263	262	261	262	261	260	260	261	261	328	604	603	602	589	587	594	595	587	576	603	599	601	594	598	588	594	599	588	595	574	543	554	552	547	595	600	599	592	502	502	491	
PGLA	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	146	113	115	113	113	114	151	120	110	184	184	231	230	232	233	234	225	184	169	167	170	169	168		
PGLA	GT12	123	123	123	124	124	124	235	233	235	237	238	213	159	157	158	158	159	159	158	157	155	153	154	159	163	192	192	191	191	191	191	192	191	192	93	98	237	231	231	231	231	231	187	173	170	174	172	170	
PGLA	ST10	0	0	0	0	0	67	102	110	113	114	115	113	89	89	89	90	90	90	90	91	91	89	91	56	0	0	0	0	0	0	0	0	0	89	0	0	92	105	245	248	248	250	250	219	201	200	202	201	202
PLPS	GT11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	142	133	133	133	133	133	130	132	135	131	132	129	133	134	134	135	132	134	134	130	115	111	127		
PLPS	GT12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	144	139	137	138	137	138	139	139	134	135	139	134	136	131	135	138	139	138	136	140	140	137	120	0	0	
PLPS	GT13	142	146	124	125	125	124	125	125	125	125	124	125	125	125	125	125	125	125	124	124	120	123	121	118	115	130	131	130	130	130	130	127	128	132	126	127	125	127	129	130	130	128	131	130	128	111	110	0	
PLPS	ST18	59	59	57																																														

Daily MW Generation on Thursday

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	HY03	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
CEND	HY04	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8		
HTRG	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	120	64	63	63	65	63	63	124	124	124	125	124	125	124	62	
HTRG	HY02	0	0	0	0	0	0	0	0	0	0	0	64	63	63	55	63	63	124	122	123	123	124	122	124	63	
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	3	
KNRG	HY01	33	33	33	23	23	23	23	22	22	22	23	22	23	23	21	21	21	33	33	33	33	33	33	33	34	
KNRG	HY02	36	36	36	22	23	23	22	23	23	22	23	23	23	23	21	20	20	35	35	35	35	35	35	35	35	
KNRG	HY03	35	35	35	21	21	22	21	21	21	21	21	21	21	22	22	22	21	35	34	34	34	34	34	34	34	
KNYR	HY01	59	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	97	96	96	96	96	95	95	95	95	95	96	96	95	94	
KNYR	HY02	60	60	59	-1	-1	-1	-1	-1	-1	-1	-1	97	98	97	97	96	95	96	98	98	98	98	98	98	98	
KNYR	HY03	83	83	69	64	64	73	62	63	65	64	62	62	65	63	66	65	82	81	74	65	97	97	97	97	97	
KNYR	HY04	60	61	60	58	58	59	57	0	0	0	0	0	0	0	0	59	72	72	56	56	88	87	59	58		
LPIA	HY01	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	18	18	18	
LPIA	HY02	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	16	16	16	
MNOR	HY01	4	4	4	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	3	3	3	3	
PGAU	HY01	-1	-1	-1	19	18	-1	-1	-1	-1	-1	-1	19	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY03	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	21	81	21	21	21	21	21	21	21	
PGAU	HY04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	21	21	21	21	21	21	21	21	
SIHY	HY01	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	30	30	30	30	30	50	
SIHY	HY02	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	30	30	30	50	
SYPS	HY01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	17	17	17	17	17	17	25	
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	7	
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	24	
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	25	
TMGR	HY01	33	34	34	34	34	34	0	0	0	0	0	0	0	0	0	0	84	84	84	84	83	34	34	84	84	84
TMGR	HY02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89	88	88	88	87	85	88	88	88	
TMGR	HY03	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83	82	84	84	82	80	84	84	84	
TMGR	HY04	68	69	53	43	42	49	41	40	39	41	40	39	43	40	41	41	62	56	48	41	82	39	78	82	39	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	138	137	86	86	82	78	-1	89	93	
UJLI	HY02	88	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	-1	-1	-1	83	80	94	92	95	181	
UPIA	HY01	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	5	5	5	5	
Total Hydro		795	650	484	385	384	383	304	249	249	245	246	253	267	251	252	303	292	370	258	1092	1314	1203	1207	1218	1208	1182
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
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	6	13	16	19	10	17	28	14	16	15
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	12	14	20	17	28	30	31	18	31	25
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	10	15	21	25	29	30	18	20	20	23	27
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	9	16	22	26	33	39	23	43	41	37	27
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	5	9	22	13	30	30	29	30	29
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	15	21	31	35	40	47	44	49	17	31
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	7	12	16	22	25	22	16	29	23	20
JSLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	10	11	20	17	19	17	32	38	50	27	32
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	14	27	39	54	42	60	88	47	71	94	94
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	12	11	16	28	27	28	36	29	50	23
KRLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	9	15	20	23	27	30	30	30	30	30
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5	10	27	14	17	37	48	47	51	43
SPLs	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	10	18	25	32	38	42	47	40	51	52	16

Daily MW Generation on Thursday

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																								
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	14	19	26	32	36	39	42	27	33	25	24	19	41	30	33	24	10	4	3	5	1	0	0	0	0	0	0	0	0				
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	7	10	14	6	8	17	11	27	24	25	27	28	22	21	14	18	1	3	2	1	0	0	0	0	0	0	0	0				
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	16	18	7	4	19	30	24	30	31	30	30	30	30	30	30	20	27	17	11	4	0	0	0	0	0	0	0	0	0				
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	32	99	179	264	342	390	424	536	531	559	556	493	518	563	450	340	374	312	227	158	73	45	12	1	0	0	0	0	0	0	0	0			
PCUF	CUFG	27	28	28	27	28	28	27	28	27	26	27	28	28	27	27	29	28	27	26	24	22	20	22	22	23	22	23	22	23	24	23	24	25	25	24	25	25	24	25	25	27	27	28	27				
PCUF	CUFK	25	26	26	26	25	13	5	5	5	4	4	5	5	4	7	27	26	26	26	26	24	25	23	25	24	27	26	25	26	25	26	24	25	23	25	25	26	26	25	25	23	25	24	25	25			
Total Co-Gen		52	54	54	53	53	41	32	33	32	30	31	33	33	32	31	31	36	55	54	53	53	52	50	46	45	45	47	47	49	49	47	49	48	49	46	49	50	51	50	50	50	50	52	51	53	52		
Total Gen		13491	13286	12978	12783	12486	12275	12148	11877	11777	11651	11564	11569	11542	11657	11691	11700	12068	12788	13235	13663	13827	14219	14240	14395	14368	14399	14395	14732	14915	15094	15229	15315	15280	15240	15077	14720	14432	14204	14391	15165	15464	15539	15535	15328	15011	14962	14808	14619
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		-28	-30	-30	-29	-29	-29	-29	-29	-29	-29	-29	-28	-28	-29	-29	-30	-30	-29	-275	-30	-30	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-29	-29	-29	-29	-29	-30	-30	-29	-29	-31	-31	-29					
TIE-PLTG		9	18	-3	6	-7	-14	-6	4	30	0	15	16	-6	45	-21	-28	-11	-53	-53	-14	1	-13	-78	-81	-42	-30	-62	-8	-55	-7	-4	-20	-23	-37	9	20	34	-13	-82	-98	-41	9	9	27	2	19	-10	35
Interconnection		-19	-12	-33	-24	-37	-43	-35	-24	1	-29	-14	-13	-34	17	-50	-57	-39	-83	-83	-42	-274	-42	-108	-110	-71	-59	-91	-37	-84	-36	-34	-49	-52	-67	-21	-9	5	-42	-110	-127	-70	-21	-22	-2	-27	-12	-40	5
System Total		13510	13298	13011	12807	12523	12318	12183	11901	11776	11680	11578	11582	11576	11640	11741	11757	12107	12871	13318	13705	14101	14261	14348	14505	14439	14458	14486	14769	14999	15130	15263	15364	15332	15307	15098	14729	14427	14246	14501	15292	15534	15560	15557	15330	15038	14974	14848	14614
SRev ST-Coal		415	417	414	410	414	429	406	557	596	590	594	594	595	595	591	589	590	579	527	412	270	264	231	268	252	252	237	254	242	247	237	236	246	246	243	243	251	243	247	252	251	256	248	310	324	284	438	430
SRev CCGT-Gas		303	368	523	622	910	1220	1290	1321	1321	1306	1705	1502	1544	1438	1736	1730	1449	1082	1046	1059	1094	962	994	983	1397	1295	1286	999	911	812	650	574	586	567	737	901	1183	1377	1278	736	380	702	788	978	1180	1347	1151	1137
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		
SRev 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		
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	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		
Syncon		464	752	752	702	702	853	853	853	853	853	853	853	853	702	853	853	853	853	666	853	187	187	338	338	151	151	338	151	151	151	0	151	151	151	151	151	151	338	338	0	151	151	151	151	151	338	338	
Hydro		452	309	288	432	433	283	227	182	182	182	186	185	178	315	180	184	144	155	264	189	345	633	593	589	765	775	614	589	536	482	654	566	535	546	586	709	833	670	545	635	538	528	458	514	615	535	579	612
S.Reserve Total		1721	1933	2151	2340	2633	2959	2950	3087	3126	3105	3512	3308	3344	3224	3534	3530	3210	2843	2677	2687	1896	2046	2156	2178	2565	2473	2475	1993	1840	1692	1541	1527	1518	1510	1717	2004	2418	2628	2408	1623	1320	1637	1645	1953	2270	2317	2506	2517