

Daily System Generation Summary on Saturday

Saturday, April 24, 2021

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,517 MW
Distillate	0 MW
Total TNB	2,517 MW
Total IPP	14,669 MW
Total Co-Gen	0 MW
Total System	21,165 MW

Generation Mix

Type	MWh	Percentage
Hydro	23,188	6.54 %
Gas	73,535	20.74 %
Total TNB	96,723	27.28 %
ST-Coal	192,375	54.26 %
LSS	2,898	0.82 %
Gas	61,612	17.38 %
Total IPP	256,885	72.46 %
Co-Gen	131	0.04 %
Total Co-Gen	131	0.04 %
Total Generation	353,739	99.78 %
PLTG	-93	-0.03 %
HVDC	-696	-0.20 %
Interconnection	-789	-0.22 %
Net Energy	354,528	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:	21:00:00 Hour
Total Set On Bus	17,211 MW
TNB Generation	5,087 MW
IPP Generation	11,097 MW
Spinning Reserve	1,022 MW
Maximum Demand	16,265 MW
Net Energy	354,528 MWH
Load Factor	90.82 %

Fuel Cost

Total Cost:	50,949,179.31 RM
Cost per Unit	15.95 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	267
Hydro	445
Syncon	493
Thermal	156
Total	1,361

Time	Weather	Temperature
Afternoon	Hot	33
Morning	Cloudy	27

Gas Usage

Station	(mmcsfd)
GLGR	54
SRDG	6
TJGS	215
Total TNB	275
CBPS	54
KLPP	2
NPRI	160
PLPS	80
SKSP	20
YPKA	2
Total IPP	318
Total Gas	593
Total Gas Required	593

Alternate Fuel Usage

Station	(mmcsfd)
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	15590	14976	14448	14002	13673	13587	13424	12997	12792	13820	14600	14993	14840	14757	15188	15370	15379	15353	15213	15386	16043	16265	16026	15715

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Friday, May 7, 2021 1:56:37 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Saturday

		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		695	690	691	689	692	693	694	693	691	691	693	691	690	693	692	693	690	688	690	692	692	691	693	689	693	692	695	690	691	692	692	694	692	692	693	692	695	694	692	692								
JMAH	U002		696	691	694	695	696	696	693	694	694	699	695	699	694	695	686	696	694	697	695	696	692	695	691	695	696	694	698	696	695	696	694	694	693	697	693	695	693	697	698	694	697	689	697	695	695	697	694	697
JMHE	U002		984	842	846	844	846	846	848	848	852	850	850	854	855	854	849	852	853	847	849	897	980	980	982	978	972	982	980	981	976	978	979	981	979	981	980	979	980	978	982	980	975	977	979	978	981	981	980	978
JMJG	U001		673	673	678	668	675	670	673	673	669	675	667	675	671	673	673	672	672	673	672	673	673	669	671	672	668	672	672	673	671	671	672	672	673	682	676	670	673	668	672									
JMJG	U002		672	677	677	675	671	682	667	673	678	677	670	675	674	671	672	673	678	675	675	672	676	674	675	672	673	675	675	671	674	671	673	672	675	673	667	673	672	677	673	675	675	673	673	663	678	676		
JMJG	U003		671	670	678	663	667	669	670	666	671	666	669	666	670	671	668	670	664	667	666	667	667	671	666	671	668	666	674	672	668	671	668	671	667	671	662	668	668	669	672	671	670	669	666	668	666	663	667	666
PKLG	U003		276	273	276	277	277	278	279	276	277	276	277	279	278	277	280	277	279	278	278	278	279	278	279	279	273	274	273	275	274	275	273	270	271	271	271	271	272	272	272	272	274	272	275	273	273	273	275	
PKLG	U004		278	276	278	278	278	278	274	273	277	280	278	278	279	277	276	280	277	277	274	277	276	277	277	276	275	271	278	279	276	269	276	278	278	275	276	272	273	276	282	278	279	277	275	273	275	275	277	280
PKLG	U006		446	449	446	455	446	448	450	451	449	448	446	448	446	448	446	446	448	450	448	449	446	448	451	448	448	448	448	446	450	449	450	449	449	449	449	449	449	449	449	449	449	449	449	449	449	448	446	449
TBIN	U001		689	687	686	684	688	687	685	687	689	691	689	688	686	687	685	686	685	689	689	689	687	686	689	690	686	690	690	689	690	688	688	689	690	687	689	689	688	689	689	684	687	689	688	689	690	687		
TBIN	U002		690	689	688	501	347	352	354	350	351	353	351	353	351	350	352	349	353	351	350	352	349	353	349	351	350	351	350	351	353	352	351	351	352	351	351	352	351	349	351	352	351	351	351	351	351	351	351	
TBIN	U003		690	690	693	692	690	691	689	690	689	693	693	690	692	694	685	691	695	691	690	691	691	691	691	690	692	689	693	690	692	692	689	691	691	693	691	691	690	689	690	692	689	687	688	691	692	689	687	
TBIN	U004		982	902	852	852	853	852	853	853	853	853	852	854	853	852	852	852	853	852	864	954	982	985	982	984	983	983	983	983	980	983	983	984	984	982	983	982	983	982	982	981	982	981	983	982	983	982	982	
Total ST-Coal			8442	8209	8183	7973	7826	7842	7829	7827	7840	7852	7831	7846	7842	7844	7814	7839	7839	7839	7824	7896	8063	8094	8100	8096	8083	8089	8105	8104	8083	8094	8086	8095	8086	8091	8087	8082	8086	8081	8102	8093	8095	8078	8097	8091	8090	8092	8087	8092
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	364	368	375	376	374	372	379	372	373	377	378	370	363	220	224	351	361	352	359	361	360	353	361	360	360	362	362	364	365	362	363	363	363	363	365	363	363	363	365	363	363	364	359	365	365	362	
EMPP	BLK2		766	765	765	763	762	763	0	0	0	0	0	0	0	184	195	197	178	141	0	0	0	0	0	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	BLK3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	83	84	83	82	83	83	0	0	0	0	0	0	0	0	0	0	0	0	0	
GLGR	GT01		104	103	104	66	68	68	68	68	68	67	70	68	68	68	68	69	68	92	104	104	105	104	105	103	105	104	105	102	105	104	103	104	106	104	105	104	104	105	104	103	103	104	103	106	105	105	104	
GLGR	GT02		104	104	104	67	67	67	67	68	67	68	68	68	68	68	68	68	67	92	104	104	104	103	103	103	104	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	
GLGR	ST1C		93	93	93	74	71	71	71	71	71	71	71	71	71	72	72	72	72	72	72	83	93	93	93	93	94	94	93	94	94	94	94	94	94	94	94	94	93	94	94	94	93	94	94	93	94	93		
KLPP	GT15		140	136	82	19	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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		56	61	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			
NPRI	BLK1		517	506	515	532	529	527	523	531	528	538	530	532	529	523	509	529	536	520	525	527	518	526	530	523	511	529	524	529	528	530	529	530	529	531	531	530	529	530	532	532	531	527	532	526	530	530	530	527
NPRI	BLK2		521	511	518	535	533	530	525	533	530	536	533	536	535	528	510	532	425	502	521	521	496	508	528	502	484	528	508	527	526	527	527	526	525	527	529	526	529	530	530	530	530	524	532	525	526	527	528	524
PCGP	PGRG		261	260	262	353	452	450	599	603	599	604	503	502	503	497	351	354	356	352	510	597	592	598	603	598	589	514	499	400	401	403	401	404	401	401	402	402	409	401	409	504	605	600	602	600	602	602	604	600
PLPS	GT11		125	130	131	131	131	131	130	131	131	131	131	131	132	131	131	131	131	131	129	130	129	133	133	128	111	114	114	127	139	129	133	143	125	133	127	124	144	131	143	133	144	127	139	122	122	123	133	130
PLPS	GT12		100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	132	115	120	117	130	144	135	138	148	129	138	129	129	150	135	149	136	148	131	144	127	127	126	137	135	
PLPS	GT13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	124	141	141	125	108	111	110	122	136	126	130	139	121	128	122	122	142	129	142	132	139	122	137	118	118	120	130	127
PLPS	ST18		138	59	58	58	57	58	57	58	57	57	58	58	58	56	57	57	58	57	59	129	141	157	206	197	197	195	203	210	207	206	213	206	206	207	205	215	205	212	207	214	208	213	200	199	204	208	208	
SKSP	BLK1		248	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	239	339	340	337	342	337	337	336	336	338	336	337	338	338	335		
SPGP	BLK1		716	718	719	718	720	719	720	720	721	717	719	721	719	718	718	720	720	719	717	718	717																											

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	23	23	23	23	24	24	24	24	24	24	24	24	24	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	

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			
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	11	19	23	23	34	33	24	35	40	35	51	41	38	11	31	24	19	8	5	2	0	0	0	0	0	0	0	0	0	0	0
KRLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	6	6	10	27	30	25	22	17	15	30	20	22	13	30	29	25	17	9	6	3	0	0	0	0	0	0	0	0	0	0	0	0
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	9	15	29	22	26	21	25	18	22	27	35	34	40	37	30	11	25	7	2	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	3	7	13	13	14	14	23	41	41	47	46	51	41	46	22	37	42	12	10	10	17	8	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	0	0	0	2	4	8	18	28	29	24	42	34	30	46	43	37	32	34	40	24	19	11	7	4	2	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	2	5	7	8	8	16	25	29	17	13	14	19	21	25	21	21	11	4	1	1	0	0	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	0	0	2	5	9	10	10	10	10	10	10	8	10	10	10	10	10	10	10	10	9	8	2	1	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	0	0	5	33	77	129	187	260	314	312	426	399	368	362	392	393	380	367	378	311	249	193	124	85	48	11	1	0	0	0	0	0	0	0	0	0	0
PCUF	CUFG	3	1	2	2	1	3	1	3	2	3	3	4	4	4	3	2	3	4	3	2	2	2	3	2	2	3	2	4	1	4	3	1	3	1	3	5	4	3	2	3	2	2	2	3	3	2	3	2	2	
PCUF	CUFK	4	1	3	2	3	3	3	2	2	3	3	5	3	3	3	3	4	3	1	2	3	4	4	3	2	4	4	4	2	4	3	0	3	3	3	5	2	1	4	2	3	2	3	2	4	3	2	4		
Total Co-Gen		7	2	5	4	4	6	4	5	4	6	6	9	7	7	6	5	7	7	4	4	5	6	7	5	4	7	6	8	3	8	6	1	6	4	6	10	6	4	6	5	5	4	5	5	7	5	5	6		
Total Gen		15578	15354	15006	14738	14450	14366	14018	13777	13694	13629	13571	13379	13288	13240	13002	12679	12708	13383	13828	14295	14605	14825	14956	15073	14830	14578	14697	14823	15156	15227	15293	15359	15319	15503	15321	15170	15147	15138	15358	15674	15989	16176	16189	16060	15961	15705	15677	15516		
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	0		
TIE-HVDC		-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-29	-30	-30				
TIE-PLTG		21	104	62	38	35	24	49	-7	53	-26	16	-72	-103	-18	37	-41	-52	-48	40	77	37	21	-6	-11	21	-80	-29	-53	1	-65	-45	-21	-27	-31	0	-29	-34	47	3	-7	-22	9	-44	-28	-33	-39	-6	-3		
Interconnection		-9	75	33	9	6	-5	20	-36	24	-55	-13	-102	-133	-47	8	-70	-81	19	11	48	8	-7	-34	-39	-7	-108	-57	-82	-29	-94	-74	-50	-56	-60	-28	-58	-63	18	-25	-36	-51	-20	-73	-57	-62	-69	-35	-33		
System Total		15590	15282	14976	14733	14448	14375	14002	13816	13673	13687	13587	13484	13424	13290	12997	12752	12792	13367	13820	14250	14600	14835	14993	15115	14840	14689	14757	14908	15188	15324	15370	15413	15379	15567	15353	15231	15213	15123	15386	15713	16043	16199	16265	16120	16026	15777	15715	15552		
SRev ST-Coal		139	316	297	334	303	289	303	304	296	282	303	291	296	292	319	297	298	292	308	298	168	137	131	135	148	142	126	127	148	137	145	136	145	140	144	149	145	150	129	138	136	153	134	140	141	139	144	139		
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	4	1	0	35	53	0	0		
SRev CCGT-Gas		714	779	660	565	460	470	204	170	189	146	275	258	269	305	686	1065	1159	634	256	200	213	140	238	183	320	440	338	345	300	333	321	280	679	435	346	356	277	334	277	222	89	161	99	185	182	164	131	154		
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		
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		
Syncon		777	374	612	400	638	825	288	435	716	990	990	1204	1204	1304	1304	1304	1304	1117	1016	641	641	515	515	364	426	738	889	651	489	489	489	489	302	302	676	525	525	525	338	151	151	302	302	302	151	302	302	302		
Hydro		148	257	163	259	218	144	404	532	457	265	173	86	160	174	184	168	126	189	212	406	351	516	509	606	459	407	298	482	427	319	323	313	419	430	269	342	322	410	420	476	595	415	487	528	744	699	607	751		
S.Reserve Total		1778	1726	1732	1558	1619	1728	1199	1441	1658	1683	1741	1839	1929	2075	2493	2834	2887	2232	1792	1545	1473	1308	1393	1288	1353	1727	1651	1605	1364	1278	1278	1218	1545	1307	1435	1372	1269	1419	1164	987	971	1035	1023	1155	1253	1357	1184	1346		