

DECIBEL - Main Result

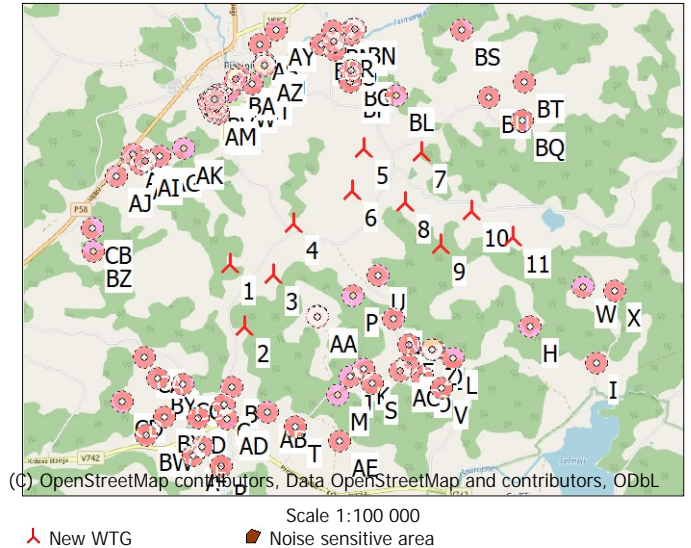
Calculation: Low-frequency

Noise calculation model:

Danish low frequency 2024

The calculation is based on "BEK nr. 996 af 26/08/2024" from the Danish Environmental Agency.

All coordinates are in
Geo [deg]-WGS84



WTGs

	Longitude	Latitude	Z	Row data/Description	WTG type		Type-generator	Power, rated	Rotor diameter	Hub height	Noise data		First wind speed [m/s]	LwaRef [dB(A)]	Last wind speed [m/s]	LwaRef [dB(A)]
					Valid	Manufact.					Creator	Name				
			[m]					[kW]	[m]	[m]						
1	26,799300° E	56,314157° N	152,2 03		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
2	26,802361° E	56,306740° N	159,0 01		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
3	26,808528° E	56,312923° N	157,7 02		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
4	26,813025° E	56,319034° N	163,6 04		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
5	26,827986° E	56,327933° N	153,0 06		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
6	26,825500° E	56,322928° N	154,0 05		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
7	26,840220° E	56,327439° N	153,0 07		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
8	26,836934° E	56,321549° N	163,3 08		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
9	26,844388° E	56,316466° N	154,9 09		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
10	26,851028° E	56,320551° N	162,0 10		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7
11	26,859915° E	56,317387° N	157,5 11		Yes	VESTAS	V172-7.2-7 200	7 200	172,0	199,0	USER	Aerodynamic blades	6,0	78,2	8,0	94,7

Calculation Results

Sound level

Noise sensitive area

No.	Name	Longitude	Latitude	Z	Immission height	Wind speed	Demands		Sound level From WTGs	Demands fulfilled ?
							Noise	Noise		
				[m]	[m]	[m/s]	[dB(A)]	[dB(A)]		
A	Ieplakas	26,791337° E	56,291351° N	148,4	1,5	6,0	20,0	-10,5		Yes
A						8,0	20,0	9,7		Yes
B	Ausma	26,799769° E	56,299612° N	159,0	1,5	6,0	20,0	-5,2		Yes
B						8,0	20,0	14,8		Yes
C	Pludoni	26,798125° E	56,297503° N	156,6	1,5	6,0	20,0	-6,9		Yes
C						8,0	20,0	13,1		Yes
D	Starku majas	26,792533° E	56,295870° N	149,9	1,5	6,0	20,0	-8,5		Yes
D						8,0	20,0	11,6		Yes
E	Olgas majas	26,793167° E	56,292449° N	151,5	1,5	6,0	20,0	-9,9		Yes
E						8,0	20,0	10,3		Yes
F	Žubites	26,837766° E	56,304509° N	153,5	1,5	6,0	20,0	-6,0		Yes
F						8,0	20,0	14,1		Yes
G	Šamšuri	26,818099° E	56,308100° N	159,3	1,5	6,0	20,0	-2,7		Yes
G						8,0	20,0	17,3		Yes
H	Liksmas	26,863668° E	56,306690° N	154,9	1,5	6,0	20,0	-6,7		Yes
H						8,0	20,0	13,4		Yes
I	Laimas 1	26,877880° E	56,302479° N	151,9	1,5	6,0	20,0	-10,5		Yes
I						8,0	20,0	9,8		Yes
J	Klavu Kalniņš	26,825013° E	56,300868° N	165,9	1,5	6,0	20,0	-6,7		Yes
J						8,0	20,0	13,4		Yes
K	Bites	26,827940° E	56,301667° N	162,7	1,5	6,0	20,0	-6,6		Yes
K						8,0	20,0	13,4		Yes

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Calculation: Low-frequency

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Noise sensitive area

No.	Name	Longitude	Latitude	Z	Immission height	Wind speed	Demands Noise	Sound level From WTGs	Demands fulfilled ? Noise
				[m]	[m]	[m/s]	[dB(A)]	[dB(A)]	
L	Zilakmeni	26,847228° E	56,302971° N	156,7	1,5	6,0	20,0	-7,0	Yes
L						8,0	20,0	13,1	Yes
M	Pizani 22	26,822517° E	56,298642° N	160,6	1,5	6,0	20,0	-7,3	Yes
M						8,0	20,0	12,8	Yes
N	Jaunkozuli	26,834375° E	56,307672° N	159,4	1,5	6,0	20,0	-4,5	Yes
N						8,0	20,0	15,5	Yes
O	Anastasijas	26,840396° E	56,300860° N	153,1	1,5	6,0	20,0	-7,5	Yes
O						8,0	20,0	12,6	Yes
P	Bitli	26,825716° E	56,310410° N	159,0	1,5	6,0	20,0	-3,1	Yes
P						8,0	20,0	16,8	Yes
Q	Katrina	26,843095° E	56,304017° N	157,0	1,5	6,0	20,0	-6,3	Yes
Q						8,0	20,0	13,7	Yes
R	Saulgriež i	26,797449° E	56,290195° N	148,3	1,5	6,0	20,0	-10,5	Yes
R						8,0	20,0	9,7	Yes
S	Berzaji Divi	26,829763° E	56,300038° N	158,1	1,5	6,0	20,0	-7,3	Yes
S						8,0	20,0	12,8	Yes
T	Pizanu Darzi	26,813251° E	56,294792° N	166,2	1,5	6,0	20,0	-8,3	Yes
T						8,0	20,0	11,8	Yes
U	Lesnaja	26,830948° E	56,312788° N	159,3	1,5	6,0	20,0	-2,2	Yes
U						8,0	20,0	17,7	Yes
V	Zakitis	26,844804° E	56,299416° N	155,3	1,5	6,0	20,0	-8,3	Yes
V						8,0	20,0	11,9	Yes
W	Ezeraine	26,875008° E	56,311485° N	154,6	1,5	6,0	20,0	-7,2	Yes
W						8,0	20,0	12,9	Yes
X	Susojeva	26,881779° E	56,311050° N	163,6	1,5	6,0	20,0	-9,1	Yes
X						8,0	20,0	11,1	Yes
Y	Pizani 13	26,837532° E	56,302141° N	154,8	1,5	6,0	20,0	-6,9	Yes
Y						8,0	20,0	13,2	Yes
Z	Janukalns	26,842700° E	56,303933° N	157,0	1,5	6,0	20,0	-6,4	Yes
Z						8,0	20,0	13,7	Yes
AA	MazŠ amŠ uri	26,817994° E	56,307909° N	159,9	1,5	6,0	20,0	-2,7	Yes
AA						8,0	20,0	17,2	Yes
AB	Baltumi	26,807325° E	56,296520° N	159,9	1,5	6,0	20,0	-7,2	Yes
AB						8,0	20,0	12,8	Yes
AC	Celmali	26,835793° E	56,301539° N	154,5	1,5	6,0	20,0	-7,1	Yes
AC						8,0	20,0	13,0	Yes
AD	Piladzitis	26,798738° E	56,295744° N	151,0	1,5	6,0	20,0	-7,9	Yes
AD						8,0	20,0	12,2	Yes
AE	Otrie Caici	26,822758° E	56,293144° N	158,3	1,5	6,0	20,0	-9,4	Yes
AE						8,0	20,0	10,8	Yes
AF	Abelaji	26,778552° E	56,327249° N	138,0	1,5	6,0	20,0	-9,4	Yes
AF						8,0	20,0	10,8	Yes
AG	Kalnalejas	26,784394° E	56,327005° N	144,6	1,5	6,0	20,0	-8,3	Yes
AG						8,0	20,0	11,9	Yes
AH	Olegkalns	26,780219° E	56,326183° N	141,7	1,5	6,0	20,0	-8,9	Yes
AH						8,0	20,0	11,3	Yes
AI	Ozolinkalni	26,781115° E	56,326407° N	141,9	1,5	6,0	20,0	-8,8	Yes
AI						8,0	20,0	11,4	Yes
AJ	Darzinu maja	26,774833° E	56,324597° N	140,8	1,5	6,0	20,0	-9,6	Yes
AJ						8,0	20,0	10,6	Yes
AK	Rosme	26,789302° E	56,327995° N	148,2	1,5	6,0	20,0	-7,6	Yes
AK						8,0	20,0	12,5	Yes
AL	Kalnu iela 13	26,796628° E	56,332373° N	146,4	1,5	6,0	20,0	-7,7	Yes
AL						8,0	20,0	12,5	Yes
AM	Kalnu iela 14	26,795633° E	56,332536° N	142,4	1,5	6,0	20,0	-7,9	Yes
AM						8,0	20,0	12,3	Yes
AN	Kalnu iela 15	26,796849° E	56,332085° N	146,5	1,5	6,0	20,0	-7,5	Yes
AN						8,0	20,0	12,6	Yes
AO	Kalnu iela 16	26,795788° E	56,332272° N	143,7	1,5	6,0	20,0	-7,8	Yes
AO						8,0	20,0	12,4	Yes
AP	Kalnu iela 8	26,794764° E	56,333549° N	142,6	1,5	6,0	20,0	-8,3	Yes
AP						8,0	20,0	11,8	Yes
AQ	Kalnu iela 9	26,796146° E	56,332889° N	143,0	1,5	6,0	20,0	-7,9	Yes

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Noise sensitive area

No.	Name	Longitude	Latitude	Z	Immission height	Wind speed	Demands Noise	Sound level From WTGs	Demands fulfilled ? Noise
				[m]	[m]	[m/s]	[dB(A)]	[dB(A)]	
AQ						8,0	20,0	12,2	Yes
AR	Mehanizatoru iela 2	26,796753° E	56,334318° N	143,6	1,5	6,0	20,0	-8,2	Yes
AR						8,0	20,0	11,9	Yes
AS	Ziedu iela 3	26,805667° E	56,340282° N	143,8	1,5	6,0	20,0	-8,9	Yes
AS						8,0	20,0	11,3	Yes
AT	Skolas iela 13	26,804053° E	56,335571° N	142,0	1,5	6,0	20,0	-7,5	Yes
AT						8,0	20,0	12,6	Yes
AU	Skolas iela 17	26,806721° E	56,338110° N	137,8	1,5	6,0	20,0	-8,0	Yes
AU						8,0	20,0	12,1	Yes
AV	Skolas iela 5	26,801243° E	56,336540° N	145,8	1,5	6,0	20,0	-8,3	Yes
AV						8,0	20,0	11,9	Yes
AW	Mehanizatoru iela 1	26,799099° E	56,334692° N	141,6	1,5	6,0	20,0	-8,0	Yes
AW						8,0	20,0	12,1	Yes
AX	Mehanizatoru iela 4	26,796126° E	56,334175° N	143,0	1,5	6,0	20,0	-8,3	Yes
AX						8,0	20,0	11,9	Yes
AY	Rezeknes iela 20	26,809162° E	56,341976° N	145,5	1,5	6,0	20,0	-9,1	Yes
AY						8,0	20,0	11,1	Yes
AZ	Skolas iela 15	26,806700° E	56,337758° N	138,9	1,5	6,0	20,0	-7,9	Yes
AZ						8,0	20,0	12,2	Yes
BA	Skolas iela 7	26,800652° E	56,336143° N	146,0	1,5	6,0	20,0	-8,2	Yes
BA						8,0	20,0	11,9	Yes
BB	Kalnu iela 12	26,795192° E	56,333027° N	142,2	1,5	6,0	20,0	-8,1	Yes
BB						8,0	20,0	12,0	Yes
BC	Kalnu iela 5	26,795474° E	56,333718° N	143,9	1,5	6,0	20,0	-8,2	Yes
BC						8,0	20,0	11,9	Yes
BD	Kalnu iela 7	26,795724° E	56,333433° N	144,0	1,5	6,0	20,0	-8,1	Yes
BD						8,0	20,0	12,0	Yes
BE	Kalnu iela 10	26,794990° E	56,333237° N	142,6	1,5	6,0	20,0	-8,2	Yes
BE						8,0	20,0	12,0	Yes
BF	Abelites	26,824931° E	56,335855° N	148,7	1,5	6,0	20,0	-4,4	Yes
BF						8,0	20,0	15,6	Yes
BG	Pukites	26,825306° E	56,337214° N	145,0	1,5	6,0	20,0	-5,3	Yes
BG						8,0	20,0	14,7	Yes
BH	Pakalni	26,825678° E	56,342116° N	142,1	1,5	6,0	20,0	-7,8	Yes
BH						8,0	20,0	12,3	Yes
BI	Jaundzeguzes	26,818789° E	56,340289° N	142,8	1,5	6,0	20,0	-7,5	Yes
BI						8,0	20,0	12,6	Yes
BJ	Jegorovi	26,825356° E	56,341514° N	140,6	1,5	6,0	20,0	-7,6	Yes
BJ						8,0	20,0	12,5	Yes
BK	Mehanizatoru iela 3	26,796615° E	56,333937° N	144,0	1,5	6,0	20,0	-8,1	Yes
BK						8,0	20,0	12,0	Yes
BL	Jaunputni	26,835000° E	56,334257° N	148,3	1,5	6,0	20,0	-2,8	Yes
BL						8,0	20,0	17,1	Yes
BM	Duntiš ki	26,821463° E	56,341810° N	142,9	1,5	6,0	20,0	-7,9	Yes
BM						8,0	20,0	12,2	Yes
BN	Bahanovi	26,826055° E	56,342154° N	142,2	1,5	6,0	20,0	-7,8	Yes
BN						8,0	20,0	12,3	Yes
BO	Skangeli	26,821745° E	56,339607° N	143,1	1,5	6,0	20,0	-6,9	Yes
BO						8,0	20,0	13,2	Yes
BP	Kalnu iela 11	26,796370° E	56,332658° N	144,3	1,5	6,0	20,0	-7,8	Yes
BP						8,0	20,0	12,3	Yes
BQ	Holms	26,862077° E	56,331211° N	158,0	1,5	6,0	20,0	-5,9	Yes
BQ						8,0	20,0	14,1	Yes
BR	Skangelu Vecticibnieku baznīca	26,821575° E	56,340662° N	143,1	1,5	6,0	20,0	-7,4	Yes
BR						8,0	20,0	12,7	Yes
BS	Rakumi	26,848985° E	56,342063° N	145,8	1,5	6,0	20,0	-8,4	Yes
BS						8,0	20,0	11,8	Yes
BT	Celmala	26,862465° E	56,335843° N	148,9	1,5	6,0	20,0	-7,7	Yes
BT						8,0	20,0	12,4	Yes
BU	Kruminmajas	26,854823° E	56,333923° N	154,8	1,5	6,0	20,0	-5,5	Yes
BU						8,0	20,0	14,5	Yes
BV	Kalnu iela 5	26,795977° E	56,333746° N	144,0	1,5	6,0	20,0	-8,2	Yes
BV						8,0	20,0	12,0	Yes

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DECIBEL - Main Result

Calculation: Low-frequency

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Noise sensitive area

No.	Name	Longitude	Latitude	Z	Immission height	Wind speed	Demands Noise	Sound level From WTGs	Demands fulfilled ? Noise
				[m]	[m]	[m/s]	[dB(A)]	[dB(A)]	
BW	Miglas	26,781435° E	56,293752° N	157,3	1,5	6,0	20,0	-10,8	Yes
BW						8,0	20,0	9,4	Yes
BX	Zviedrini	26,785264° E	56,295982° N	153,8	1,5	6,0	20,0	-9,5	Yes
BX						8,0	20,0	10,7	Yes
BY	Lauski	26,783824° E	56,300530° N	159,6	1,5	6,0	20,0	-8,1	Yes
BY						8,0	20,0	12,0	Yes
BZ	Pakalni	26,769837° E	56,315656° N	144,1	1,5	6,0	20,0	-9,7	Yes
BZ						8,0	20,0	10,5	Yes
CA	Zviedri	26,780973° E	56,303115° N	159,0	1,5	6,0	20,0	-8,0	Yes
CA						8,0	20,0	12,0	Yes
CB	Ievu majas	26,769698° E	56,318437° N	136,2	1,5	6,0	20,0	-9,9	Yes
CB						8,0	20,0	10,3	Yes
CC	Diana	26,789093° E	56,299900° N	158,6	1,5	6,0	20,0	-7,1	Yes
CC						8,0	20,0	12,9	Yes
CD	Klavas	26,776255° E	56,297833° N	156,9	1,5	6,0	20,0	-10,5	Yes
CD						8,0	20,0	9,7	Yes

Distances (m)

NSA	WTG	1	2	3	4	5	6	7	8	9	10	11
A		2586	1844	2626	3361	4660	4101	5028	4388	4312	4920	5139
B		1619	809	1577	2312	3603	3044	3982	3354	3338	3935	4214
C		1855	1061	1833	2568	3858	3298	4229	3596	3556	4159	4417
D		2078	1354	2141	2873	4189	3637	4588	3964	3943	4544	4808
E		2446	1689	2469	3204	4499	3938	4862	4222	4146	4754	4976
F		2611	2205	2037	2226	2676	2186	2557	1897	1392	1965	1983
G		1344	985	799	1257	2291	1713	2551	1897	1874	2464	2786
H		4068	3793	3481	3421	3235	2973	2727	2339	1615	1730	1213
I		5033	4697	4446	4415	4190	3960	3626	3305	2592	2609	1997
J		2172	1547	1685	2154	3018	2456	3103	2417	2110	2718	2836
K		2252	1680	1736	2142	2924	2371	2967	2282	1936	2541	2641
L		3216	2808	2638	2770	3023	2596	2758	2164	1512	1971	1786
M		2246	1539	1810	2344	3278	2709	3387	2701	2401	3010	3116
N		2287	1984	1703	1829	2290	1785	2230	1553	1158	1765	1915
O		2942	2443	2386	2638	3110	2623	2958	2313	1755	2288	2201
P		1687	1502	1100	1240	1955	1393	2097	1421	1337	1930	2254
Q		2935	2539	2357	2501	2821	2370	2613	1988	1388	1905	1816
R		2670	1866	2621	3351	4606	4036	4918	4260	4121	4734	4909
S		2454	1852	1945	2354	3107	2561	3118	2435	2040	2635	2685
T		2322	1491	2039	2698	3800	3222	3998	3319	3087	3699	3829
U		1964	1892	1387	1309	1696	1178	1729	1043	927	1513	1864
V		3259	2750	2702	2938	3340	2877	3132	2511	1898	2384	2208
W		4693	4526	4116	3925	3437	3317	2790	2608	1974	1794	1142
X		5114	4937	4536	4345	3821	3724	3152	3010	2390	2176	1525
Y		2717	2236	2159	2415	2931	2430	2821	2160	1650	2213	2190
Z		2916	2515	2339	2489	2822	2367	2621	1993	1399	1920	1838
AA		1350	976	809	1276	2313	1735	2572	1918	1890	2481	2800
AB		2025	1178	1827	2531	3723	3147	3998	3334	3192	3803	3998
AC		2659	2148	2110	2403	2977	2464	2896	2228	1744	2316	2311
AD		2050	1244	2006	2739	4014	3449	4362	3719	3647	4253	4487
AE		2753	1971	2371	2944	3886	3319	3967	3281	2920	3516	3545
AF		1942	2717	2445	2320	3058	2943	3814	3666	4245	4544	5150
AG		1701	2515	2164	1981	2698	2582	3453	3306	3892	4183	4792
AH		1784	2561	2290	2179	2960	2824	3713	3545	4114	4424	5025
AI		1767	2553	2264	2137	2903	2772	3657	3494	4067	4373	4976
AJ		1908	2617	2456	2442	3308	3139	4056	3856	4396	4734	5323
AK		1660	2500	2056	1774	2392	2308	3149	3032	3641	3906	4524
AL		2034	2875	2287	1798	2001	2072	2751	2768	3444	3612	4254
AM		2058	2901	2324	1848	2065	2134	2815	2832	3506	3676	4318
AN		2001	2842	2252	1764	1980	2044	2731	2742	3416	3588	4229
AO		2028	2871	2293	1819	2049	2111	2800	2810	3483	3657	4298
AP		2177	3021	2449	1971	2147	2238	2892	2930	3610	3768	4412

To be continued on next page...

DECIBEL - Main Result

Calculation: Low-frequency

...continued from previous page

NSA	1	2	3	4	5	6	7	8	9	10	11
AQ	2094	2936	2351	1862	2045	2127	2792	2821	3499	3661	4305
AR	2250	3089	2490	1977	2058	2183	2795	2863	3553	3690	4337
AS	2934	3739	3050	2408	1948	2288	2571	2844	3572	3562	4213
AT	2401	3211	2536	1922	1707	1934	2413	2563	3278	3352	4004
AU	2705	3502	2806	2159	1735	2050	2388	2625	3351	3365	4018
AV	2494	3318	2667	2080	1911	2132	2614	2767	3480	3556	4208
AW	2286	3118	2492	1944	1938	2093	2668	2759	3458	3576	4226
AX	2237	3078	2487	1983	2089	2206	2828	2888	3577	3718	4365
AY	3156	3944	3234	2565	1949	2348	2511	2849	3579	3520	4164
AZ	2666	3463	2766	2120	1711	2019	2370	2598	3324	3344	3996
BA	2449	3274	2630	2052	1921	2127	2631	2770	3480	3566	4218
BB	2116	2959	2385	1908	2106	2185	2853	2880	3557	3722	4365
BC	2190	3033	2451	1962	2111	2211	2854	2900	3583	3735	4380
BD	2157	2999	2416	1927	2087	2181	2831	2871	3553	3708	4353
BE	2140	2984	2411	1935	2124	2208	2870	2902	3580	3742	4386
BF	2889	3528	2747	2012	902	1439	1331	1757	2471	2346	2984
BG	3029	3677	2896	2161	1046	1590	1426	1886	2593	2443	3074
BH	3514	4193	3418	2686	1585	2136	1865	2393	3080	2867	3472
BI	3148	3870	3111	2393	1488	1976	1950	2369	3088	2967	3601
BJ	3445	4124	3348	2616	1520	2069	1816	2335	3026	2822	3432
BK	2208	3048	2452	1945	2052	2166	2792	2849	3537	3680	4326
BL	3143	3668	2884	2172	827	1391	825	1420	2064	1819	2429
BM	3369	4078	3313	2588	1596	2116	1976	2450	3157	2990	3611
BN	3528	4205	3429	2697	1587	2140	1857	2390	3076	2858	3462
BO	3154	3850	3080	2353	1355	1871	1772	2219	2932	2789	3419
BP	2067	2909	2322	1833	2024	2102	2773	2797	3474	3639	4282
BQ	4322	4589	3887	3323	2139	2443	1415	1891	1972	1369	1544
BR	3256	3958	3191	2465	1471	1989	1870	2330	3040	2886	3512
BS	4369	4876	4096	3393	2039	2578	1716	2402	2863	2398	2828
BT	4592	4931	4199	3584	2307	2700	1663	2241	2429	1843	2060
BU	4078	4437	3696	3070	1788	2188	1156	1767	2047	1507	1867
BV	2190	3032	2444	1948	2082	2187	2824	2874	3558	3708	4353
BW	2526	1941	2714	3426	4772	4240	5224	4622	4644	5238	5523
BX	2202	1598	2372	3088	4431	3898	4880	4280	4311	4902	5197
BY	1794	1339	2059	2740	4095	3586	4598	4033	4146	4717	5068
BZ	1830	2244	2413	2698	3847	3537	4546	4202	4612	5052	5575
CA	1672	1384	2024	2659	4011	3529	4556	4024	4195	4749	5136
CB	1892	2404	2479	2681	3757	3487	4475	4173	4625	5036	5582
CC	1708	1120	1883	2594	3940	3412	4404	3817	3886	4468	4795
CD	2310	1895	2609	3278	4633	4133	5149	4589	4698	5272	5615