

Ivor,

*A few problems
areas in
red underlines
you might
want to check
over,
Erin*

TABLE OF FREQUENCIES IN CYCLES PER SECOND
BASED ON STANDARD PITCH A = 440
CARRIED THROUGH NINE OCTAVES AND A MAJOR THIRD
FOR THE THIRTY-ONE-TONE EQUAL TEMPERAMENT OF HUYGENS
(A CLOSE APPROXIMATION TO MEANTONE TEMPERAMENT)

Calculated from values for the powers of the thirty-first root of two
supplied by Ervin M. Wilson.

The conventional name for each note is given first.
This is followed by the alternative name or names
according to the Fokker nomenclature system.

1. C B#	2. [Bx] Dbb C#	3. C# D#	4. D# C##
16.4433 ✓	16.8151 —	17.1953 —	17.5841 —
32.8865 —	33.6301 —	34.3906 —	35.1682 —
65.7730 —	67.2603 ✓	68.7811 —	70.3363 —
131.5461 —	134.5205 —	137.5622 —	140.6727 —
263.0921 —	269.0410 —	275.1244 —	281.3454 —
526.1842 —	538.0820 —	550.2488 —	562.6907 —
1052.3685 —	1076.1640 —	1100.4977 ✓	1125.3815 —
2104.7370 —	2152.3281 —	2200.9953 —	2250.7630 —
4209.4739 —	4304.6562 —	4401.9906 —	4501.5259 —
8419.948	8609.312 —	8803.981 —	9003.052 —
5. Cx D#	6. D	7. Ebb D#	8. D# E#
17.9817 —	18.3883 —	18.8041 —	19.2292 —
35.9634 —	36.7766 —	37.6081 —	38.4585 —
71.9267 —	73.5531 —	75.2163 ✓	76.9170 —
143.8535 —	147.1062 —	150.4325 —	153.8340 —
287.7070 —	294.2125 —	300.8650 —	307.6680 —
575.4140 —	588.4249 —	601.7301 ✓	615.3360 —
1150.8280 —	1176.8499 ✓	1202.4601	1230.6721 —
2301.6560 —	2353.6997 —	2404.9202	2461.3442 —
4603.3119 —	4707.3994 —	4819.8405	4922.6883 —
9206.624 —	9414.798 ✓	9639.681	9845.377 —

9. E $\flat$ D $\sharp$	10. D $\times$ (F $\flat$) E $\flat$	11. E F $\flat$	12. F $\flat$ E $\sharp$
19.6641	20.1086	20.5634	21.0283
39.3281	40.2174	41.1267	42.0567
78.6562	80.4347	82.2535	84.1134
157.3124	160.8695	164.5070	168.2267
314.6248	321.7390	329.0139	336.4534
629.2498	643.4779	658.0279	672.9068
1258.4995	1286.9558	1316.0557	1344.8136
2516.9991	2573.9116	2632.1115	2689.6274
5033.9982	5147.8233	5264.2229	5379.2548
10067.996	10295.646	10528.446	

NOTE: This table terminates at E=10528.446 because this is the highest fundamental pitch reached in large organs, save in very rare instances. Similarly, the lowest pitch found in such organs, C=16.4433, begins the table.

13. E $\sharp$ F $\flat$	14. F E $\sharp$	15. G $\flat$ (B $\times$) F $\sharp$	16. F $\sharp$ G $\flat$
21.5038	21.9901	22.4873	22.9957
43.0077	43.9801	44.9746	45.9915
86.0153	87.9602	89.9491	91.9830
172.0306	175.9204	179.8982	183.9660
344.0611	351.8408	359.7964	367.9320
688.1222	703.6816	719.5929	735.8639
1376.2444	1407.3633	1439.1858	1471.7278
2752.4889	2814.7266	2878.3716	2943.4557
5504.9777	5629.4532	5756.7432	5886.9114

17. G $\flat$ F $\sharp$	18. F $\times$ G $\flat$	19. G	20. A $\flat$ G $\sharp$
23.5157	24.0474	24.5912	25.1472
47.0314	48.0949	49.1824	50.2945
94.0629	96.1898	98.3647	100.5889
188.1257	192.3795	196.7295	201.1778
376.2514	384.7590	393.4590	402.3556
752.5029	769.5180	786.9179	804.7113
1505.0058	1539.0361	1573.8359	1609.4226
3010.0115	3078.0722	3147.6718	3218.8452
6020.0230	6156.1444	6295.3435	6537.6903

21. G# A $\flat$	22. A $\flat$ G#	23. G $\times$ A $\flat$ ^[Bbb]	24. A
25.7158 —	26.2973 —	26.8919 —	27.5000
51.4317 —	52.5946 —	53.7839 —	55.0000
102.8634 —	105.1893 —	107.5677 —	110.0000
205.7267 —	210.3785 —	215.1355 —	220.0000
411.4535 —	420.7570 —	430.2710 —	440.0000
822.9070 —	841.5141 —	860.5419 —	880.0000
1645.8139 —	1683.0281 —	1721.1838 —	1760.0000
3291.6279 —	3366.0563 —	3442.3676 —	3520.0000
6583.2557 —	6732.1126 —	6884.7352 —	7040.0000
25. Bbb A#	26. A# B $\flat$	27. B $\flat$ A#	28. A $\times$ B $\flat$ [Cbb]
28.1218 —	28.7577 —	29.4079 —	30.0729 —
56.2436 —	57.5154 —	58.8159 —	60.1458 —
112.4873 —	115.0308 —	117.6318 —	120.2916 —
224.9745 —	230.0615 —	235.2635 —	240.5832 —
449.9490 —	460.1230 —	470.5271 —	481.1664 —
899.8981 —	920.2461 —	941.0541 —	962.3327 —
1799.7961 —	1840.4921 —	1882.1083 —	1924.6654 —
3599.5923 —	3680.9842 —	3764.2165 —	3849.3309 —
7199.184 —	7371.968 —	7528.433 —	7698.662 —
29. B C $\flat$	30. C $\flat$ B#	31. B# C $\flat$	(1) When the numeral 5 bears a horizontal line over it thus $\bar{5}$, it resulted from a rounding-off increase, and so it should be disregarded if further rounding-off of decimal places is desired. (2) The 4th place was omitted after A-7040 because of possible inaccuracy. (3) Other worthy nomenclatures exist for the 31 tones of the system.
30.7529 —	31.4483 —	32.1593 —	
61.5058 —	62.8965 —	64.3187 —	
123.0116 —	125.7930 —	128.6374 —	
246.0231 —	251.5860 —	257.2748 —	
492.0462 —	503.1721 —	514.5495 —	
984.0924 —	1006.3442 —	1029.0991 —	
1968.1849 —	2012.6884 —	2058.1982 —	
3936.3698 —	4025.3767 —	4116.3963 —	
7872.739 —	8050.753 —	8232.792 —	