# 1/5, 1/6, 1/7, 1/8 Syntonic Comma Temperaments

Compiled with Manuscripts by
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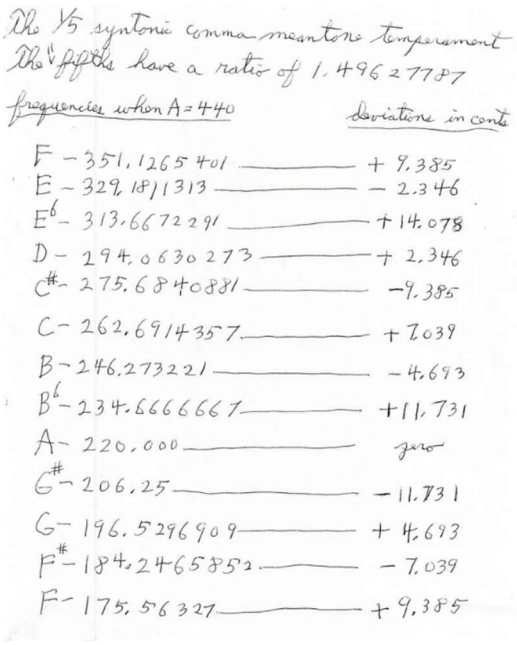
Prepared by
Farley's House of Pianos

**The 1/5 Syntonic Comma Meantone Temperament**

*Jorgensen's Hand*

The fifths have a ratio of 1.49627787

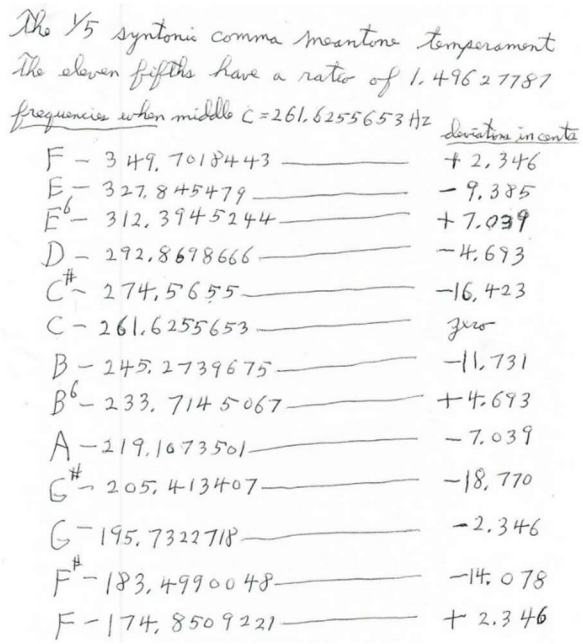
| Pitch | Frequencies when A is at 440Hz<br>Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 351.1265401 | +9.385 |
| E | 329.1811313 | -2.346 |
| Eb | 313.6672291 | +14.078 |
| D | 294.0630273 | +2.346 |
| C# | 275.6840881 | -9.385 |
| C | 262.6914357 | +7.039 |
| B | 246.273221 | -4.693 |
| Bb | 234.6666667 | +11.731 |
| A | 220.000 | 0 |
| G# | 206.25 | -11.731 |
| G | 196.5296909 | +4.693 |
| F# | 184.2465852 | -7.039 |
| F3 | 175.56327 | +9.385 |




**The 1/5 Syntonic Comma Meantone Temperament**

The eleven fifths have a ratio of 1.49627787

| Pitch | Frequencies when middle C is 261.6255653Hz<br>Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 349.7018443 | +2.346 |
| E | 327.845479 | -9.385 |
| Eb | 312.3945244 | +7.039 |
| D | 292.8698666 | +4.693 |
| C# | 274.5655 | -16.423 |
| C | 261.6255653 | 0 |
| B | 245.2739675 | -11.731 |
| Bb | 233.7145067 | +4.693 |
| A | 219.1073501 | -7.039 |
| G# | 205.413407 | -18.770 |
| G | 195.7322718 | -2.346 |
| F# | 183.4990048 | -14.078 |
| F3 | 174.8509221 | +2.346 |

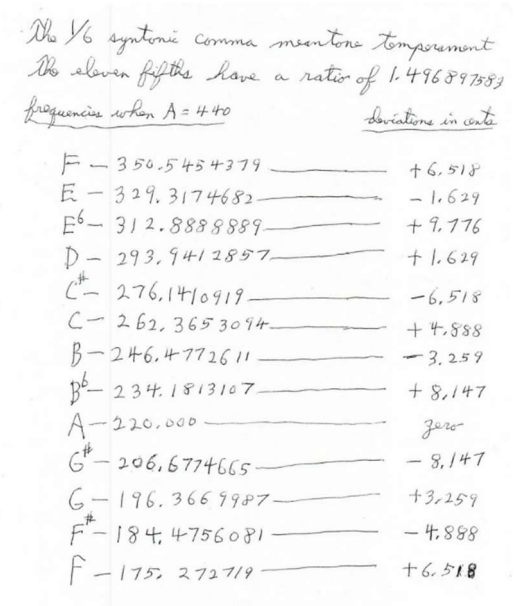


**The 1/6 Syntonic Comma Meantone Temperament**

The eleven fifths have a ratio of 1.496897583

| Pitch | Frequencies when A is at 440Hz | Cents Deviation |
|---|---|---|
| F4 | 350.5454379 | +6.518 |
| E | 329.3174682 | -1.629 |
| Eb | 312.8888889 | +9.776 |
| D | 293.9412857 | +1.629 |
| C# | 276.1410919 | -6.518 |
| C | 262.3653094 | +4.888 |
| B | 246.4772611 | -3.259 |
| Bb | 234.1813107 | +8.147 |
| A | 220.000 | 0 |
| G# | 206.6774665 | -8.147 |
| G | 196.3669987 | +3.259 |
| F# | 184.4756081 | -4.888 |
| F3 | 175.272719 | +6.518 |

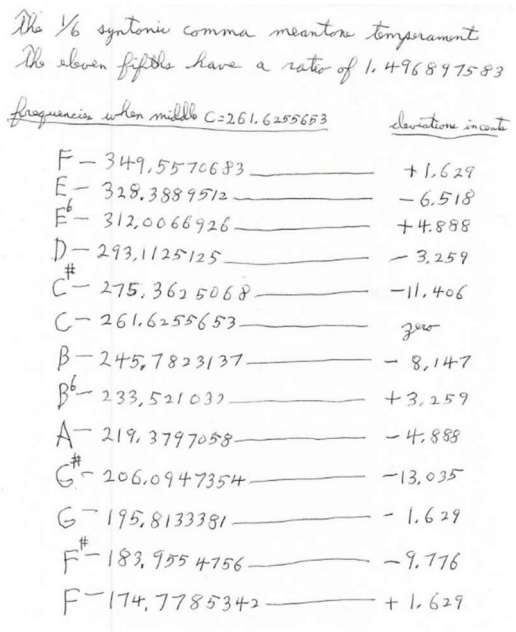
*Jorgensen's Hand*




**The 1/6 Syntonic Comma Meantone Temperament**

The eleven fifths have a ratio of 1.496897583

| Pitch | Frequencies when C is at C=261.6255653Hz Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 349.5570683 | +1.629 |
| E | 328.3889512 | -6.518 |
| Eb | 312.0066926 | +4.888 |
| D | 293.1125125 | -3.259 |
| C# | 275.3625068 | -11.406 |
| C | 261.6255653 | 0 |
| B | 245.7823137 | -8.147 |
| Bb | 233.521032 | +3.259 |
| A | 219.3797058 | -4.888 |
| G# | 206.0947354 | -13.035 |
| G | 195.8133381 | +1.629 |
| F# | 183.9554756 | -9.776 |
| F3 | 174.7785342 | +1.629 |

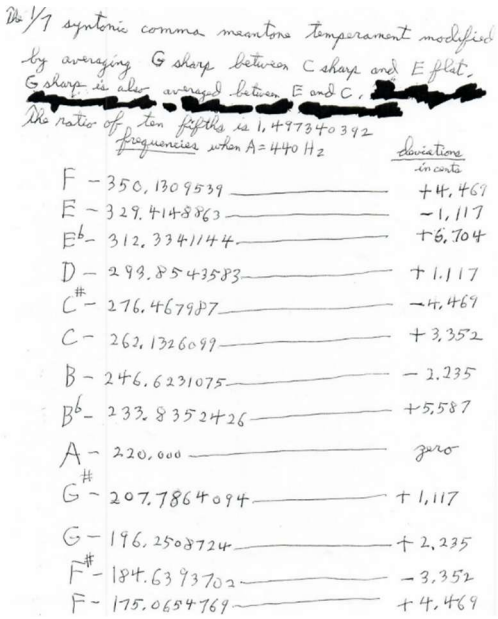


**The 1/7 Syntonic Comma Meantone Temperament**

Modified by averaging G# between C# and Eb. G# is also averaged between E and C. The ratio of ten fifths is 1.497340392

| Pitch | Frequencies when A is at 440Hz Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 350.1309539 | +4.469 |
| E | 329.4148863 | -1.117 |
| Eb | 312.3341144 | +6.704 |
| D | 293.8543583 | +1.117 |
| C# | 276.467987 | -4.469 |
| C | 262.1326099 | +3.352 |
| B | 246.6231075 | -2.235 |
| Bb | 233.8352426 | +5.587 |
| A | 220.000 | 0 |
| G# | 207.7864094 | +1.117 |
| G | 196.2508724 | +2.235 |
| F# | 184.6393702 | -3.352 |
| F3 | 175.0654769 | +4.469 |

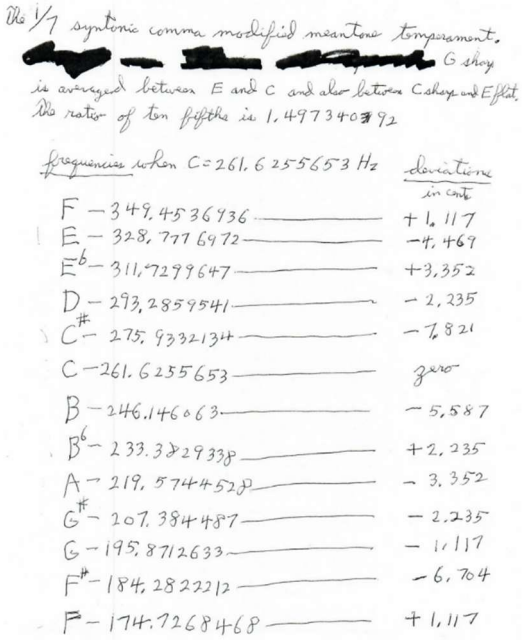
*Jorgensen's Hand*




**The 1/7 Syntonic Comma Modified Meantone Temperament**

G# is averaged between E and C and between C# and Eb. The ratio of ten fifths is 1.497340392

| Pitch | Frequencies when C is 261.6255653Hz Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 349.4536936 | +1.117 |
| E | 329.7776972 | -4.469 |
| Eb | 311.7299647 | +3.352 |
| D | 293.2859541 | -2.235 |
| C# | 275.9332134 | -7.821 |
| C | 261.6255653 | 0 |
| B | 246.146063 | -5.587 |
| Bb | 233.3829338 | +2.235 |
| A | 219.5744528 | -3.352 |
| G# | 207.384487 | -2.235 |
| G | 195.8712633 | +1.117 |
| F# | 184.2822212 | -6.704 |
| F3 | 174.7268468 | +1.117 |

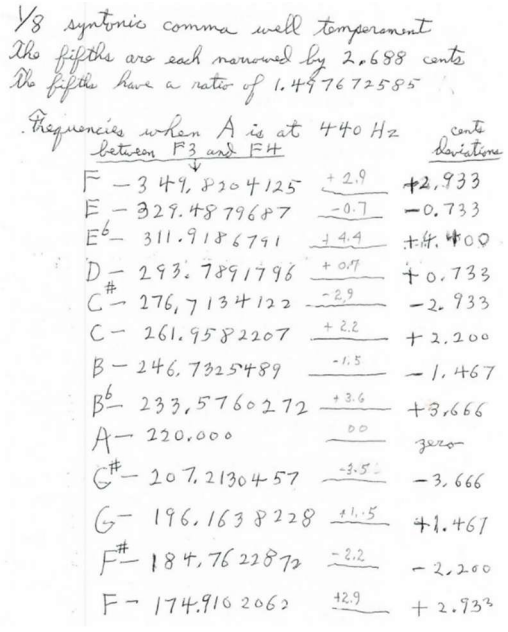


**1/8 Syntonic Comma Well Temperament**

The fifths are each narrowed by 2.688 cents and have a ratio of 1.497672585

*Jorgensen's Hand*

| Pitch | Frequencies when A is at 440Hz Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 349.8204125 | +2.933 |
| E | 329.4879687 | -0.733 |
| Eb | 311.9186791 | +4.400 |
| D | 293.7891796 | +0.733 |
| C# | 276.7134122 | -2.933 |
| C | 261.9582207 | +2.200 |
| B | 246.7325489 | -1.467 |
| Bb | 233.5760272 | +3.666 |
| A | 220.000 | 0 |
| G# | 207.2130457 | -3.666 |
| G | 196.1638228 | +1.467 |
| F# | 184.7622872 | -2.200 |
| F3 | 174.9102062 | +2.933 |




**1/8 Syntonic Well Temperament when middle C is at 261.6255653Hz**

| Pitch | Frequencies when C is at 261.6255653Hz Between F3 and F4 | Cents Deviation |
|---|---|---|
| F4 | 349.3761826 | +0.733 |
| E | 329.0695586 | -2.933 |
| Eb | 311.5225799 | +2.200 |
| D | 293.4161027 | +1.467 |
| C# | 276.3620195 | -5.133 |
| C | 261.6255653 | 0 |
| B | 246.4192282 | -3.666 |
| Bb | 233.2794138 | +1.467 |
| A | 219.7206265 | -2.200 |
| G# | 206.94991 | -5.866 |
| G | 195.9147183 | +0.733 |
| F# | 184.5276613 | -4.400 |
| F3 | 174.6880913 | +0.733 |