

Ixion Society Irish harp, 1872, string chart

Simon Chadwick January 2009

String no.	freq	Note	Length (cm)	Length (in)	Gauge (mm)	Gauge (in)	Tension (kg)	Metal
<b>1</b>	1568	<b>g'''</b>	<b>7.614</b>	<b>3</b>	0.51	0.02	9.3	<b>steel</b>
<b>2</b>	1396	<b>f#'''</b>	8		0.51	0.02	8.1	<b>steel</b>
<b>3</b>	1318	<b>e'''</b>	9.5		0.51	0.02	10.2	<b>steel</b>
<b>4</b>	1174	<b>d'''</b>	11		0.51	0.02	10.8	<b>steel</b>
<b>5</b>	1046	<b>c'''</b>	13		0.51	0.02	12.0	<b>steel</b>
<b>6</b>	986	<b>b''</b>	14		0.51	0.02	12.4	<b>steel</b>
<b>7</b>	880	<b>a'''</b>	16		0.51	0.02	12.9	<b>steel</b>
<b>8</b>	784	<b>g'''</b>	<b>17.766</b>	<b>7</b>	0.51	0.02	12.6	<b>steel</b>
<b>9</b>	698	<b>f#'''</b>	18		0.56	0.022	12.4	<b>steel</b>
<b>10</b>	659	<b>e'''</b>	19		0.56	0.022	12.3	<b>steel</b>
<b>11</b>	587	<b>d'''</b>	21		0.56	0.022	11.9	<b>steel</b>
<b>12</b>	523	<b>c'''</b>	23		0.56	0.022	11.3	<b>steel</b>
<b>13</b>	493	<b>b''</b>	24		0.56	0.022	11.0	<b>steel</b>
<b>14</b>	440	<b>a'</b>	26		0.56	0.022	10.3	<b>steel</b>
<b>15</b>	392	<b>g'</b>	<b>26.65</b>	<b>10.5</b>	0.56	0.022	8.5	<b>steel</b>
<b>16</b>	349	<b>f#'</b>	28		0.71	0.028	12.0	<b>steel</b>
<b>17</b>	329.5	<b>e'</b>	30		0.71	0.028	12.3	<b>steel</b>
<b>18</b>	293.5	<b>d'</b>	34		0.71	0.028	12.5	<b>steel</b>
<b>19</b>	261.5	<b>c'</b>	38		0.71	0.028	12.4	<b>steel</b>
<b>20</b>	246.5	<b>b</b>	40		0.71	0.028	12.2	<b>steel</b>
<b>21</b>	220	<b>a</b>	45		0.71	0.028	12.3	<b>steel</b>
<b>22</b>	196	<b>g</b>	<b>50.761</b>	<b>20</b>	0.71	0.028	12.5	<b>steel</b>
<b>23</b>	174.5	<b>f#</b>	55		0.9	0.035	20.5	<b>brass</b>
<b>24</b>	164.75	<b>e</b>	59		0.9	0.035	21.1	<b>brass</b>
<b>25</b>	146.75	<b>d</b>	65		0.9	0.035	20.3	<b>brass</b>
<b>26</b>	130.75	<b>C</b>	72		0.9	0.035	19.8	<b>brass</b>
<b>27</b>	123.25	<b>B</b>	78		0.9	0.035	20.6	<b>brass</b>
<b>28</b>	110	<b>A</b>	83		0.9	0.035	18.6	<b>brass</b>
<b>29</b>	98	<b>G</b>	91.371	36	1.2	0.047	31.8	<b>brass</b>
<b>30</b>	87.25	<b>F#</b>	100		1.2	0.047	30.2	<b>brass</b>
<b>31</b>	82.375	<b>E</b>	105		1.2	0.047	29.7	<b>brass</b>
<b>32</b>	73.375	<b>D</b>	110		1.2	0.047	25.8	<b>brass</b>
<b>33</b>	65.375	<b>CC</b>	120		1.2	0.047	24.4	<b>brass</b>
<b>34</b>	61.625	<b>BB</b>	125		1.2	0.047	23.5	<b>brass</b>
<b>35</b>	55	<b>AA</b>	130		1.2	0.047	20.3	<b>brass</b>
<b>36</b>	49	<b>GG</b>	<b>137.056</b>	<b>54</b>	1.2	0.047	17.9	<b>brass</b>
<b>37</b>	43.625	<b>FF#</b>	140		1.2	0.047	14.8	<b>brass</b>
<b>38</b>	41.188	<b>EE</b>	145		1.2	0.047	14.1	<b>brass</b>

Total: 578.165

Tension

