

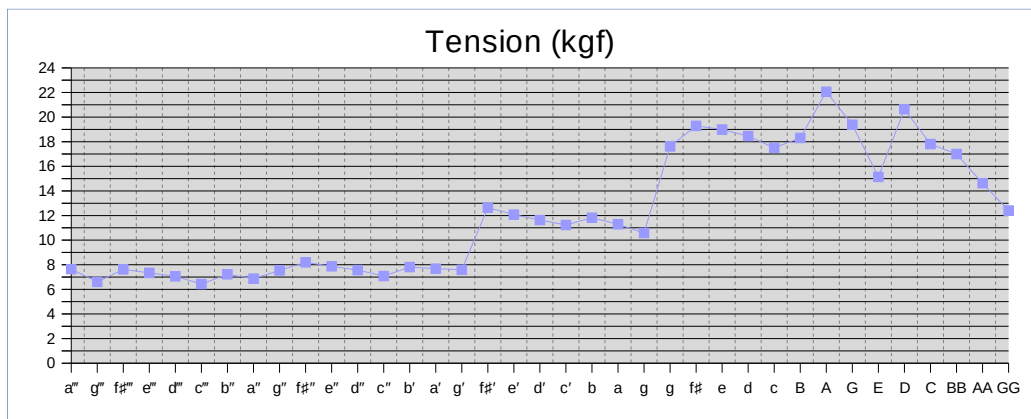
Recommended string chart for Egan wire-strung Irish harp
Simon Chadwick September 2023 (revised March 2024)



Patrick Byrne's string list written down in 1849 by John Bell (Glasgow University Library MS Farmer 332), and published by H.G. Farmer, 'Some Notes on the Irish Harp', *Music & Letters* vol XXIV, April 1943.

string	freq	note	Length (cm)	Length (in)	Gauge (mm)	Gauge (in)	Tension	Metal		
1	1760	a ^{'''}	6.8	2.7	0.44	0.017	8	yellow brass		
2	1568	g ^{'''}	7.1	2.8	0.44	0.017	7	yellow brass		
3	1476	f ^{'''}	8.1	3.2	0.44	0.017	8	yellow brass		
4	1318	e ^{'''}	8.9	3.5	0.44	0.017	7	yellow brass		
5	1174	d ^{'''}	9.8	3.9	0.44	0.017	7	yellow brass		
6	1046	c ^{'''}	10.5	4.1	0.44	0.017	6	yellow brass		
7	986	b ^{'''}	11.8	4.6	0.44	0.017	7	yellow brass		
8	880	a ^{''}	12.9	5.1	0.44	0.017	7	yellow brass		
9	784	g ^{''}	13.9	5.5	0.48	0.019	8	yellow brass		
10	738	f ^{''}	15.4	6.1	0.48	0.019	8	yellow brass		
11	659	e ^{''}	16.9	6.7	0.48	0.019	8	yellow brass		
12	587	d ^{''}	18.6	7.3	0.48	0.019	8	yellow brass		
13	523	c ^{''}	20.2	8.0	0.48	0.019	7	yellow brass		
14	493	b [']	22.5	8.9	0.48	0.019	8	yellow brass		
15	440	a [']	25	9.9	0.48	0.019	8	yellow brass		
16	392	g [']	27.9	11.0	0.48	0.019	8	yellow brass		
17	369	f [']	30.6	12.1	0.6	0.024	13	yellow brass		
18	329.5	e [']	33.5	13.2	0.6	0.024	12	yellow brass		
19	293.5	d [']	36.9	14.5	0.6	0.024	12	yellow brass		
20	261.5	c [']	40.7	16.0	0.6	0.024	11	yellow brass		
21	246.5	b	44.3	17.5	0.6	0.024	12	yellow brass		
22	220	a	48.5	19.1	0.6	0.024	11	yellow brass		
23	196	g	52.7	20.8	0.6	0.024	11	yellow brass		
24	196	g	58.3	23.0	0.7	0.028	18	yellow brass		
25	184.5	f [#]	64.8	25.5	0.7	0.028	19	yellow brass		
26	164.75	e	72	28.4	0.7	0.028	19	yellow brass		
27	146.75	d	79.7	31.4	0.7	0.028	18	yellow brass		
28	130.75	c	87.1	34.3	0.7	0.028	18	yellow brass		
29	123.25	B	94.5	37.2	0.7	0.028	18	yellow brass		
30	110	A	101.7	40.1	0.8	0.032	22	yellow brass		
31	98	G	107	42.2	0.8	0.032	19	yellow brass		
32	82.375	E	112.5	44.3	0.8	0.032	15	yellow brass		
33	73.375	D	118	46.5	1	0.039	21	yellow brass		
34	65.375	C	123	48.5	1	0.039	18	yellow brass		
35	61.625	BB	127.5	50.2	1	0.039	17	yellow brass		
36	55	AA	132.5	52.2	1	0.039	15	yellow brass		
37	49	GG	137	54.0	1	0.039	12	yellow brass		
							TOTAL	449		

(f1v) (f89v)
34 in all
78 of the next say 8
Then there are 2 oz of course & 2 oz of fine treble wire.
This constitutes the whole wire
56 of the next say 5
67 of the next say 7
1/4lb of next which will string the tenor.
6 of the next
1/2 lib each of the 3 first numbers of brass wire.
3 wires of the next size
Longest wire /
5 wires of this /
to be got in Flower the wire drawers Church St Dublin.
(read from bass to treble)



String lengths are measured from John Egan no.1933, made for the Irish Harp Society in Belfast, early 1820s (National Museum of Ireland, DF:1913.381). Measured by Simon Chadwick and Brenda Malloy, March 2023. Measurements are perhaps ±5mm