

Mens Brannock / MondoPoint Width / Girth Table

Experimental!

Brannock Size			Ball of Foot		Width % → Girth % → Of Length		Width/Girth (mm)									
Foot .In	Mens	Last .cm	IT EU	Foot .mm	A AAA	B AA	C A	D B	E C	F D	G E	H EE	I EEE			
8	2	21.7	32 ² / ₃	204 ¹ / ₆	58.8/141.2	62.0/148.8	65.4/156.9	68.9/165.4	72.6/174.3	76.6/183.8	80.7/193.7	85.1/204.2	89.7/215.2			
8 ¹ / ₆	2 ¹ / ₂	22.2	33 ² / ₃	208 ¹ / ₃	60.0/144.1	63.3/151.9	66.7/160.1	70.3/168.8	74.1/177.9	78.1/187.5	82.4/197.6	86.8/208.3	91.5/219.6			
8 ¹ / ₃	3	22.6	34	212 ¹ / ₂	61.2/147.0	64.5/154.9	68.0/163.3	71.7/172.1	75.6/181.4	79.7/191.3	84.0/201.6	88.5/212.5	93.3/224.0			
8 ¹ / ₂	3 ¹ / ₂	23.1	34 ² / ₃	216 ² / ₃	62.4/149.8	65.8/157.9	69.4/166.5	73.1/175.5	77.1/185.0	81.3/195.0	85.6/205.5	90.3/216.7	95.2/228.4			
8 ² / ₃	4	23.5	35 ¹ / ₃	220 ⁵ / ₆	63.6/152.7	67.1/161.0	70.7/169.7	74.5/178.9	78.6/188.6	82.8/198.7	87.3/209.5	92.0/220.8	97.0/232.8			
8 ⁵ / ₆	4 ¹ / ₂	24.0	36	225	64.8/155.6	68.3/164.0	72.0/172.9	75.9/182.2	80.0/192.1	84.4/202.5	88.9/213.5	93.8/225.0	98.8/237.2			
9	5	24.4	36 ² / ₃	229 ¹ / ₆	66.0/158.5	69.6/167.1	73.4/176.1	77.3/185.6	81.5/195.7	85.9/206.3	90.6/217.4	95.5/229.2	100.7/241.6			
9 ¹ / ₆	5 ¹ / ₂	24.8	37 ¹ / ₃	233 ¹ / ₃	67.2/161.4	70.9/170.1	74.7/179.3	78.7/189.0	83.0/199.2	87.5/210.0	92.2/221.4	97.2/233.3	102.5/246.0			
9 ¹ / ₃	6	25.3	38	237 ¹ / ₂	68.4/164.3	72.1/173.1	76.0/182.5	80.2/192.4	84.5/202.8	89.1/213.7	93.9/225.3	99.0/237.5	104.3/250.3			
9 ¹ / ₂	6 ¹ / ₂	25.7	38 ² / ₃	241 ² / ₃	69.6/167.1	73.4/176.2	77.4/185.7	81.6/195.7	86.0/206.3	90.6/217.5	95.5/229.3	100.7/241.7	106.1/254.7			
9 ² / ₃	7	26.2	39 ¹ / ₃	245 ⁵ / ₆	70.8/170.0	74.7/179.2	78.7/188.9	83.0/199.1	87.5/209.9	92.2/221.2	97.2/233.2	102.4/245.8	108.0/259.1			
9 ⁵ / ₆	7 ¹ / ₂	26.6	40	250	72.0/172.9	75.9/182.2	80.0/192.1	84.4/202.5	88.9/213.5	93.7/225.0	98.8/237.2	104.2/250.0	109.8/263.5			
10	8	27.1	40 ² / ₃	254 ¹ / ₆	73.2/175.8	77.2/185.3	81.4/195.3	85.8/205.9	90.4/217.0	95.3/228.7	100.5/241.1	105.9/254.2	111.6/267.9			
10 ¹ / ₆	8 ¹ / ₂	27.5	41 ¹ / ₃	258 ¹ / ₃	74.4/178.7	78.5/188.3	82.7/198.5	87.2/209.2	91.9/220.6	96.9/232.5	102.1/245.1	107.6/258.3	113.5/272.3			
10 ¹ / ₃	9	28.0	42	262 ¹ / ₂	75.6/181.5	79.7/191.4	84.0/201.7	88.6/212.6	93.4/224.1	98.4/236.2	103.8/240.9	109.4/262.5	115.3/276.7			
10 ¹ / ₂	9 ¹ / ₂	28.4	42 ² / ₃	266 ² / ₃	76.8/184.4	81.0/194.4	85.4/204.9	90.0/216.0	94.9/227.7	100.0/240.0	105.4/253.0	111.1/266.7	117.1/281.1			
10 ² / ₃	10	28.8	43 ¹ / ₃	270 ⁵ / ₆	78.0/187.3	82.3/197.4	86.7/208.1	91.4/219.4	96.4/231.2	101.6/243.7	107.1/256.9	112.8/270.8	119.0/285.5			
10 ⁵ / ₆	10 ¹ / ₂	29.3	44	275	79.2/190.2	83.5/200.5	88.0/211.3	92.8/222.7	97.8/234.8	103.1/247.5	108.7/260.9	114.6/275.0	120.8/289.9			
11	11	29.7	44 ² / ₃	279 ¹ / ₆	80.4/193.1	84.8/203.5	89.4/214.5	94.2/226.1	99.3/238.4	104.7/251.2	110.4/264.8	116.3/279.2	122.6/294.3			
11 ¹ / ₆	11 ¹ / ₂	30.2	45 ¹ / ₃	283 ¹ / ₃	81.6/196.0	86.1/206.5	90.7/217.7	95.6/229.5	100.8/241.9	106.2/255.0	112.0/268.8	118.1/283.3	124.4/298.7			
11 ¹ / ₃	12	30.6	46	287 ¹ / ₂	82.8/198.8	87.3/209.6	92.1/220.9	97.0/232.9	102.3/245.5	107.8/258.7	113.6/272.7	119.8/287.5	126.3/303.1			
11 ¹ / ₂	12 ¹ / ₂	31.1	46 ² / ₃	291 ² / ₃	84.0/201.7	88.6/212.6	93.4/224.1	98.4/236.2	103.8/249.0	109.4/262.5	115.3/276.7	121.5/291.7	128.1/307.4			
11 ² / ₃	13	31.5	47 ¹ / ₃	295 ⁵ / ₆	85.2/204.6	89.9/215.7	94.7/227.3	99.8/239.6	105.2/252.6	110.9/266.2	116.9/280.7	123.3/295.8	129.9/311.8			
11 ⁵ / ₆	13 ¹ / ₂	32.0	48	300	86.4/207.5	91.1/218.7	96.1/230.5	101.2/243.0	106.7/256.1	112.5/270.0	118.6/284.6	125.0/300.0	131.8/316.2			
12	14	32.4	48 ² / ₃	304 ¹ / ₆	87.6/210.4	92.4/221.7	97.4/233.7	102.7/246.4	108.2/259.7	114.1/273.7	120.2/288.6	126.7/304.2	133.6/320.6			
12 ¹ / ₆	14 ¹ / ₂	32.8	49 ¹ / ₃	308 ¹ / ₃	88.9/213.2	93.7/224.8	98.7/236.9	104.1/249.7	109.7/263.3	115.6/277.5	121.9/292.5	128.5/308.3	135.4/325.0			
12 ¹ / ₃	15	33.3	50	312 ¹ / ₂	90.1/216.1	94.9/227.8	100.1/240.1	105.5/253.1	111.2/266.8	117.2/281.2	123.5/296.5	130.2/312.5	137.3/329.4			

(Table Values for Girth are for Non-Weight Bearing)

Actual Foot Length, Width & Girth Measurements are in mm (MondoPoint). Width & Girth Increment Factor is ~5²/₅%
 Measurements are for bare feet. Compensation required for type of socks typically worn with shoe/boot.

6²/₃% Toe Room
 UK Size = Mens - 1

Copyright ©2020 – R.F.C. J. S. Gilstrap – All Rights Reserved. Creative Commons (CC BY-NC-ND 4.0)
 BY: Sizing by JSG™ (Attribution) NC: Non-Commercial (Commercial Research OK) ND: No Derivative Works.

The standard Brannock width table increments the widths by $\frac{3}{16}$ " and $\frac{1}{16}$ " for every $\frac{1}{2}$ size. Only for the **D** width is there a consistent **37½%** Width:Length aspect ratio across the whole size range. For all other widths the lines are curved with the non-linearity increasing for those widths further away from the **D** width. This is unacceptable for the design and manufacture of lasts & shoes as these ratios should be consistent for all widths across the whole size range. It is also better to increment the width by an $\sim 5\frac{2}{5}\%$ factor, $\sqrt{10/9}$, with the percentage difference value increasing as the widths increase, shown in the graph, instead of a fixed percentage as it is for a single size in the current Brannock width table. This will cover the widths well for better fitting.

eXponential Increment Width Graph

