CUTTING EDGE SAWMILL

LOG SCALE COMPARISON CHART

FREE SAWMILL RESOURCE

Doyle, Scribner Decimal C, and International 1/4-inch estimates side by side.

HOW TO USE THIS CHART

Measure the log's small-end diameter **inside the bark**, then use the table for the log length. The three log rules can produce different estimates from the same log, so always know which rule is being used.

8-FOOT LOGS

Approximate board feet by log rule

Small-end diameter (inches)	Doyle BF	Scribner BF	International 1/4" BF
8	8	15	15
10	18	28	30
12	32	43	45
14	50	61	65
16	72	83	85
18	98	108	110
20	128	136	135
22	162	167	170
24	200	202	205
26	242	239	240
28	288	280	280
30	338	324	325

12-FOOT LOGS

Approximate board feet by log rule

Small-end diameter (inches)	Doyle BF	Scribner BF	International 1/4" BF
8	12	23	25
10	27	41	45
12	48	64	70
14	75	92	100
16	108	125	130
18	147	162	170
20	192	204	210
22	243	251	260
24	300	302	310
26	363	359	370
28	432	420	430
30	507	485	495

Important: These are log-scale estimates, not guaranteed lumber yield. Actual recovery varies with taper, sweep, defects, kerf, drying, and milling practices.

LOG SCALE COMPARISON - LONGER LOGS

CUTTING EDGE SAWMILL

16-FOOT LOGS

Approximate board feet by log rule

Small-end diameter (inches)	Doyle BF	Scribner BF	International 1/4" BF
8	16	31	40
10	36	55	65
12	64	86	95
14	100	123	135
16	144	166	180
18	196	216	230
20	256	272	290
22	324	334	355
24	400	403	425
26	484	478	500
28	576	559	585
30	676	647	675

20-FOOT LOGS

Approximate board feet by log rule

Small-end diameter (inches)	Doyle BF	Scribner BF	International 1/4" BF
8	20	38	50
10	45	69	85
12	80	107	125
14	125	154	175
16	180	208	235
18	245	270	300
20	320	340	370
22	405	418	455
24	500	504	540
26	605	598	640
28	720	699	745
30	845	809	855

DOYLE
Formula-based. Common in the Central and Eastern U.S. It often gives lower estimates on smaller-diameter logs.

SCRIBNER DECIMAL C
An equation used to approximate the Scribner rule. Scribner is a diagram-based rule and does not account for taper.

INTERNATIONAL 1/4-INCH
Accounts for a 1/4-inch saw kerf and taper. The formula varies by log length and values are rounded to the nearest 5 BF.

Calculation basis: Doyle and International 1/4-inch formulas follow USDA Forest Service guidance. Scribner values use the Scribner Decimal C equation. D = inside-bark small-end diameter; L = log length.

COMPARE A SPECIFIC LOG ONLINE

Use the Log Volume Calculator at cuttingedgesawmill.com