

"Atkins Saw Teeth".tex

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1 Atkins Saw Teeth

Atkins Teeth.inc

Atkins provides at least four tables of dimensions for saw teeth as used on their crosscut saws. It was somewhat suprising the find that the same saw in different tables has different dimensions. In an attempt to groupe this verity of information I have assemmbled the saw type into four different “bkicks” of data. They are located at:

1. subsection 1.1, page 3
2. subsection 1.2, page 5
3. subsection 1.3, page 7
4. subsection 1.4, page 9

The four tables of tooth dimensions are here:

1. In Table 1, page 3 18 different saws have their teeth described (sorted by saw type in Table 2, page 4).
2. In Table 3, page 5 23 different saws have their teeth described (sorted by saw type in Table 4, page 6).
3. In Table 5, page 7 14 different saws have their teeth described (sorted by saw type in Table 6, page 8).
4. In Table 7, page 9 an unclear number of saws have their teeth described. In each entry there are two diffrent saw types listed. I have broken these pairs of saw types into the following two tables:
 - (a) In Table 8, page 10 There are 16 entries however there are only 9 unique saws with their teeth listed. These are the saws from the first collumn of Table 7, page 9(sorted by saw type in Table 9, page 10).
 - (b) In Table 10, page 11 There are 16 entries however there are a full 16 unique saws type with their teeth listed. These are the saws from the second collumn of Table 7, page 9(sorted by saw type in Table 11, page 12).

1.1 Block A Tooth Dimensions

Specifications of Teeth					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
A	1	1 1/2	7/8	1	3/4
A	540	1 3/8	7/8	1	3/4
A	550	1 3/8	7/8	1	3/4
A	6	1 5/16	13/16	1 1/16	11/16
A	3	1 5/8	1	1 5/16	3/4
A	545-5	1 13/64	1	1	9/16
A	544-4	1 13/64	1	1	9/16
A	11	1 3/8	3/4	3/4	11/16
A	12	1 5/8	15/16	1	9/16
A	654-741	1 1/2	5/8	15/16	5/8
A	389	1 1/16	9/16	13/16	9/16
A	51	1 7/8	1 1/8	1 9/16	9/16
A	52	1 7/8	1 1/8	1 9/16	9/16
A	55	1 13/16	1	1	9/16
A	64	2 3/16	1 1/4	2 3/16	13/16
A	67	2 3/16	1 1/4	2 3/16	13/16
A	68	2	1 3/16	2	11/16
A	69	2	1 3/16	2	11/16

Table 1: Saw tooth dimensions from 1900-Atkins-Catalog page 4, original order

Specifications of Teeth					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
A	1	1 1/2	7/8	1	3/4
A	3	1 5/8	1	1 5/16	3/4
A	6	1 5/16	13/16	1 1/16	11/16
A	11	1 3/8	3/4	3/4	11/16
A	12	1 5/8	15/16	1	9/16
A	51	1 7/8	1 1/8	1 9/16	9/16
A	52	1 7/8	1 1/8	1 9/16	9/16
A	55	1 13/16	1	1	9/16
A	64	2 3/16	1 1/4	2 3/16	13/16
A	67	2 3/16	1 1/4	2 3/16	13/16
A	68	2	1 3/16	2	11/16
A	69	2	1 3/16	2	11/16
A	389	1 1/16	9/16	13/16	9/16
A	540	1 3/8	7/8	1	3/4
A	544-4	1 13/64	1	1	9/16
A	545-5	1 13/64	1	1	9/16
A	550	1 3/8	7/8	1	3/4
A	654-741	1 1/2	5/8	15/16	5/8

Table 2: Saw tooth dimensions from 1900-Atkins-Catalog page 4, sorted by saw type order

1.2 Block B Tooth Dimensions

Specifications of Teeth					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
B	5	$1 \frac{7}{8}$	$\frac{7}{8}$	$1 \frac{5}{8}$	$\frac{1}{4}$
B	4	$1 \frac{7}{8}$	$\frac{7}{8}$	$1 \frac{5}{8}$	$\frac{1}{4}$
B	12	$1 \frac{1}{2}$	$\frac{13}{16}$	$1 \frac{5}{8}$	$\frac{1}{4}$
B	1	$1 \frac{1}{2}$	$\frac{11}{16}$	$\frac{15}{16}$	$\frac{3}{8}$
B	3	$1 \frac{5}{8}$	$\frac{3}{4}$	$\frac{15}{16}$	$\frac{7}{16}$
B	11	$1 \frac{3}{8}$	$\frac{5}{8}$	$1 \frac{7}{16}$	$\frac{3}{8}$
B	6	$1 \frac{1}{4}$	$\frac{11}{16}$	$1 \frac{1}{8}$	$\frac{7}{16}$
B	221	$1 \frac{9}{16}$	$\frac{7}{8}$	$1 \frac{3}{8}$	$\frac{7}{16}$
B	218	$1 \frac{9}{16}$	$\frac{3}{4}$	$1 \frac{3}{8}$	$\frac{3}{8}$
B	331	$1 \frac{1}{2}$	$\frac{3}{4}$	1	$\frac{5}{16}$
B	225	$1 \frac{5}{8}$	$\frac{11}{16}$	$1 \frac{5}{8}$	$\frac{7}{32}$
B	379	1	$\frac{7}{8}$	$\frac{7}{8}$	$\frac{15}{16}$
B	386	$1 \frac{1}{4}$	$\frac{9}{16}$	$1 \frac{5}{16}$	$\frac{3}{16}$
B	387	$1 \frac{9}{16}$	$\frac{11}{16}$	$1 \frac{9}{16}$	$\frac{7}{32}$
B	540	$1 \frac{3}{8}$	$\frac{9}{16}$	$1 \frac{1}{8}$	$\frac{3}{16}$
B	550	$1 \frac{3}{8}$	$\frac{9}{16}$	$1 \frac{1}{8}$	$\frac{3}{16}$
B	551	$1 \frac{7}{8}$	$\frac{7}{8}$	$1 \frac{5}{8}$	$\frac{1}{4}$
B	553	$1 \frac{7}{8}$	$\frac{7}{8}$	$1 \frac{5}{8}$	$\frac{1}{4}$
B	556	$1 \frac{7}{8}$	$\frac{7}{7}$	$1 \frac{5}{8}$	$\frac{1}{4}$
B	518	$1 \frac{1}{2}$	$\frac{9}{16}$	$1 \frac{1}{2}$	$\frac{5}{16}$
B	741	$1 \frac{5}{8}$	$\frac{1}{2}$	$1 \frac{5}{8}$	$\frac{3}{16}$
B	389	$1 \frac{1}{8}$	$\frac{1}{2}$	$\frac{15}{16}$	$\frac{9}{16}$
B	654	$1 \frac{1}{2}$	$\frac{1}{2}$	$\frac{15}{16}$	$\frac{3}{16}$

Table 3: Saw tooth dimensions from Atkins 1919 page 134, original order

Specifications of Teeth					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
B	1	1 1/2	11/16	15/16	3/8
B	3	1 5/8	3/4	15/16	7/16
B	4	1 7/8	7/8	1 5/8	1/4
B	5	1 7/8	7/8	1 5/8	1/4
B	6	1 1/4	11/16	1 1/8	7/16
B	11	1 3/8	5/8	1 7/16	3/8
B	12	1 1/2	13/16	1 5/8	1/4
B	218	1 9/16	3/4	1 3/8	3/8
B	221	1 9/16	7/8	1 3/8	7/16
B	225	1 5/8	11/16	1 5/8	7/32
B	331	1 1/2	3/4	1	5/16
B	379	1	7/8	7/8	15/16
B	386	1 1/4	9/16	1 5/16	3/16
B	387	1 9/16	11/16	1 9/16	7/32
B	389	1 1/8	1/2	15/16	9/16
B	518	1 1/2	9/16	1 1/2	5/16
B	540	1 3/8	9/16	1 1/8	3/16
B	550	1 3/8	9/16	1 1/8	3/16
B	551	1 7/8	7/8	1 5/8	1/4
B	553	1 7/8	7/8	1 5/8	1/4
B	556	1 7/8	7/7	1 5/8	1/4
B	654	1 1/2	1/2	15/16	3/16
B	741	1 5/8	1/2	1 5/8	3/16

Table 4: Saw tooth dimensions from Atkins 1919 page 134, sorted by saw type order

1.3 Block C Tooth Dimensions

Specifications of Teeth					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
C	5	1 7/8	7/8	1 5/8	1/4
C	4	1 7/8	7/8	1 5/8	1/4
C	12	1 5/8	13/16	1 5/8	1/4
C	1	1 1/2	11/16	15/16	3/8
C	3	1 5/8	1 1/2	1 1/4	7/16
C	11	1 5/16	5/8	1 5/8	3/8
C	6	1 5/16	11/16	1 1/16	7/16
C	221	1 1/2	7/8	1 5/16	3/8
C	218	1 9/16	3/4	1 1/4	3/8
C	331	1 1/2	3/4	13/16	5/16
C	225	1 5/8	11/16	1 5/16	7/32
C	379	1	7/8	7/8	15/16
C	386	1 5/16	9/16	1 5/16	3/16
C	387	1 5/16	11/16	1 5/16	7/32

Table 5: Saw tooth dimensions from Atkins catalog 1914 page 40, original order

Specifications of Teeth					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
C	1	1 1/2	11/16	15/16	3/8
C	3	1 5/8	1 1/2	1 1/4	7/16
C	4	1 7/8	7/8	1 5/8	1/4
C	5	1 7/8	7/8	1 5/8	1/4
C	6	1 5/16	11/16	1 1/16	7/16
C	11	1 5/16	5/8	1 5/8	3/8
C	12	1 5/8	13/16	1 5/8	1/4
C	218	1 9/16	3/4	1 1/4	3/8
C	221	1 1/2	7/8	1 5/16	3/8
C	225	1 5/8	11/16	1 5/16	7/32
C	331	1 1/2	3/4	13/16	5/16
C	379	1	7/8	7/8	15/16
C	386	1 5/16	9/16	1 5/16	3/16
C	387	1 5/16	11/16	1 5/16	7/32

Table 6: Saw tooth dimensions from Atkins catalog 1914 page 40, sorted by saw type order

1.4 Block D Tooth Dimensions

Specifications of Teeth, Original						
Block	Saw Numbers	Num-	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
D	32-A	4	1 13/16	13/16	1 1/32	1/4
D	32-A	5	1 13/16	13/16	1 1/32	1/4
D	30	9	1 11/16	3/4	1	1/4
D	73	553	1 13/16	7/8	1	5/16
D	37-C	540	1 5/8	3/4	1 1/4	7/16
D	33	224	1 19/32	15/15	15/16	1/4
D	73	225	1 13/16	7/8	1	5/16
D	73	226	1 13/16	7/8	1	5/16
D	73	228	1 13/16	7/8	1	5/16
D	37-C	330	1 5/8	3/4	1 1/4	7/16
D	37-C	331	1 5/8	3/4	1 1/4	7/16
D	37-C	332	1 5/8	3/4	1 1/4	7/16
D	15-A	389	1 3/16	1/2	15/16	11/32
D	61	654	1 17/32	7/16	31/32	3/16
D	9	390	7/8	1/2	23/32	1/2
D	48	392	1 11/32	9/16	3/4	1/4

Table 7: Saw tooth dimensions from Atkins Crosscut Saws Eastern Patterns B, Original Saw entries 1 & 2

Specifications of Teeth, First Saws only					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
E	32-A	1 13/16	13/16	1 1/32	1/4
E	32-A	1 13/16	13/16	1 1/32	1/4
E	30	1 11/16	3/4	1	1/4
E	73	1 13/16	7/8	1	5/16
E	37-C	1 5/8	3/4	1 1/4	7/16
E	33	1 19/32	15/15	15/16	1/4
E	73	1 13/16	7/8	1	5/16
E	73	1 13/16	7/8	1	5/16
E	73	1 13/16	7/8	1	5/16
E	37-C	1 5/8	3/4	1 1/4	7/16
E	37-C	1 5/8	3/4	1 1/4	7/16
E	37-C	1 5/8	3/4	1 1/4	7/16
E	15-A	1 3/16	1/2	15/16	11/32
E	61	1 17/32	7/16	31/32	3/16
E	9	7/8	1/2	23/32	1/2
E	48	1 11/32	9/16	3/4	1/4

Table 8: Saw tooth dimensions from Atkins Crosscut Saws Eastern Patterns B, 1st Saw entry, original order

Specifications of Teeth, First Saws only					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
E	9	7/8	1/2	23/32	1/2
E	15-A	1 3/16	1/2	15/16	11/32
E	30	1 11/16	3/4	1	1/4
E	32-A	1 13/16	13/16	1 1/32	1/4
E	33	1 19/32	15/15	15/16	1/4
E	37-C	1 5/8	3/4	1 1/4	7/16
E	48	1 11/32	9/16	3/4	1/4
E	61	1 17/32	7/16	31/32	3/16
E	73	1 13/16	7/8	1	5/16

Table 9: Saw tooth dimensions from Atkins Crosscut Saws Eastern Patterns B, 1st Saw entry, sorted by saw type order with duplicatres removed

Specifications of Teeth, Second saws only					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
F	4	1 13/16	13/16	1 1/32	1/4
F	5	1 13/16	13/16	1 1/32	1/4
F	9	1 11/16	3/4	1	1/4
F	553	1 13/16	7/8	1	5/16
F	540	1 5/8	3/4	1 1/4	7/16
F	224	1 19/32	15/15	15/16	1/4
F	225	1 13/16	7/8	1	5/16
F	226	1 13/16	7/8	1	5/16
F	228	1 13/16	7/8	1	5/16
F	330	1 5/8	3/4	1 1/4	7/16
F	331	1 5/8	3/4	1 1/4	7/16
F	332	1 5/8	3/4	1 1/4	7/16
F	389	1 3/16	1/2	15/16	11/32
F	654	1 17/32	7/16	31/32	3/16
F	390	7/8	1/2	23/32	1/2
F	392	1 11/32	9/16	3/4	1/4

Table 10: Saw tooth dimensions from Atkins Crosscut Saws Eastern Patterns B, 2nd Saw entry, original order

Specifications of Teeth, Second saws only					
Block	Saw Number	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
F	4	1 13/16	13/16	1 1/32	1/4
F	5	1 13/16	13/16	1 1/32	1/4
F	9	1 11/16	3/4	1	1/4
F	224	1 19/32	15/15	15/16	1/4
F	225	1 13/16	7/8	1	5/16
F	226	1 13/16	7/8	1	5/16
F	228	1 13/16	7/8	1	5/16
F	330	1 5/8	3/4	1 1/4	7/16
F	331	1 5/8	3/4	1 1/4	7/16
F	332	1 5/8	3/4	1 1/4	7/16
F	389	1 3/16	1/2	15/16	11/32
F	390	7/8	1/2	23/32	1/2
F	392	1 11/32	9/16	3/4	1/4
F	540	1 5/8	3/4	1 1/4	7/16
F	553	1 13/16	7/8	1	5/16
F	654	1 17/32	7/16	31/32	3/16

Table 11: Saw tooth dimensions from Atkins Crosscut Saws Eastern Patterns B, 2nd Saw entry, sorted by saw type order

1.5 All tooth dimentions sorted

Specifications of all Teeth, Sorted						
Block	Saw Numbers	Num-	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
A	1		1 1/2	7/8	1	3/4
B	1		1 1/2	11/16	15/16	3/8
C	1		1 1/2	11/16	15/16	3/8
A	3		1 5/8	1	1 5/16	3/4
C	3		1 5/8	1 1/2	1 1/4	7/16
B	3		1 5/8	3/4	15/16	7/16
F	4		1 13/16	13/16	1 1/32	1/4
B	4		1 7/8	7/8	1 5/8	1/4
C	4		1 7/8	7/8	1 5/8	1/4
F	5		1 13/16	13/16	1 1/32	1/4
B	5		1 7/8	7/8	1 5/8	1/4
C	5		1 7/8	7/8	1 5/8	1/4
B	6		1 1/4	11/16	1 1/8	7/16
A	6		1 5/16	13/16	1 1/16	11/16
C	6		1 5/16	11/16	1 1/16	7/16
F	9		1 11/16	3/4	1	1/4
E	9		7/8	1/2	23/32	1/2
D	9	390	7/8	1/2	23/32	1/2
A	11		1 3/8	3/4	3/4	11/16
B	11		1 3/8	5/8	1 7/16	3/8
C	11		1 5/16	5/8	1 5/8	3/8
B	12		1 1/2	13/16	1 5/8	1/4
A	12		1 5/8	15/16	1	9/16
C	12		1 5/8	13/16	1 5/8	1/4
E	15-A		1 3/16	1/2	15/16	11/32
D	15-A	389	1 3/16	1/2	15/16	11/32
E	30		1 11/16	3/4	1	1/4
D	30	9	1 11/16	3/4	1	1/4
E	32-A		1 13/16	13/16	1 1/32	1/4
D	32-A	4	1 13/16	13/16	1 1/32	1/4
D	32-A	5	1 13/16	13/16	1 1/32	1/4
E	33		1 19/32	15/15	15/16	1/4
D	33	224	1 19/32	15/15	15/16	1/4
E	37-C		1 5/8	3/4	1 1/4	7/16
D	37-C	330	1 5/8	3/4	1 1/4	7/16
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Specifications of all Teeth Sorted

Block	Saw bers	Num- bers	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
D	37-C	331	1 5/8	3/4	1 1/4	7/16
D	37-C	332	1 5/8	3/4	1 1/4	7/16
D	37-C	540	1 5/8	3/4	1 1/4	7/16
E	48		1 11/32	9/16	3/4	1/4
D	48	392	1 11/32	9/16	3/4	1/4
A	51		1 7/8	1 1/8	1 9/16	9/16
B	518		1 1/2	9/16	1 1/2	5/16
A	52		1 7/8	1 1/8	1 9/16	9/16
A	55		1 13/16	1	1	9/16
E	61		1 17/32	7/16	31/32	3/16
D	61	654	1 17/32	7/16	31/32	3/16
A	64		2 3/16	1 1/4	2 3/16	13/16
A	67		2 3/16	1 1/4	2 3/16	13/16
A	68		2	1 3/16	2	11/16
A	69		2	1 3/16	2	11/16
E	73		1 13/16	7/8	1	5/16
D	73	225	1 13/16	7/8	1	5/16
D	73	226	1 13/16	7/8	1	5/16
D	73	228	1 13/16	7/8	1	5/16
D	73	553	1 13/16	7/8	1	5/16
C	218		1 9/16	3/4	1 1/4	3/8
B	218		1 9/16	3/4	1 3/8	3/8
C	221		1 1/2	7/8	1 5/16	3/8
B	221		1 9/16	7/8	1 3/8	7/16
F	224		1 19/32	15/16	15/16	1/4
F	225		1 13/16	7/8	1	5/16
C	225		1 5/8	11/16	1 5/16	7/32
B	225		1 5/8	11/16	1 5/8	7/32
F	226		1 13/16	7/8	1	5/16
F	228		1 13/16	7/8	1	5/16
F	330		1 5/8	3/4	1 1/4	7/16
B	331		1 1/2	3/4	1	5/16
C	331		1 1/2	3/4	13/16	5/16
F	331		1 5/8	3/4	1 1/4	7/16
F	332		1 5/8	3/4	1 1/4	7/16
B	379		1	7/8	7/8	15/16

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Specifications of all Teeth Sorted

Block	Saw Num- bers	Depth of Raker Gullet	Width of Raker Gullet Widest Place	Depth of Tooth Gullet	Width of Tooth Gullet Widest Place
C	379	1	7/8	7/8	15/16
B	386	1 1/4	9/16	1 5/16	3/16
C	386	1 5/16	9/16	1 5/16	3/16
C	387	1 5/16	11/16	1 5/16	7/32
B	387	1 9/16	11/16	1 9/16	7/32
A	389	1 1/16	9/16	13/16	9/16
B	389	1 1/8	1/2	15/16	9/16
F	389	1 3/16	1/2	15/16	11/32
F	390	7/8	1/2	23/32	1/2
F	392	1 11/32	9/16	3/4	1/4
A	540	1 3/8	7/8	1	3/4
B	540	1 3/8	9/16	1 1/8	3/16
F	540	1 5/8	3/4	1 1/14	7/16
A	544-4	1 13/64	1	1	9/16
A	545-5	1 13/64	1	1	9/16
A	550	1 3/8	7/8	1	3/4
B	550	1 3/8	9/16	1 1/8	3/16
B	551	1 7/8	7/8	1 5/8	1/4
F	553	1 13/16	7/8	1	5/16
B	553	1 7/8	7/8	1 5/8	1/4
B	556	1 7/8	7/7	1 5/8	1/4
A	654-741	1 1/2	5/8	15/16	5/8
B	654	1 1/2	1/2	15/16	3/16
F	654	1 17/32	7/16	31/32	3/16
B	741	1 5/8	1/2	1 5/8	3/16

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