Brunswick

PBA Est. 1958 PROFESSIONAL BOWLERS ASSOCIATION

Official Lane Maintenance Provider

DIRECT+ Conditioning System

MAX

Pattern Information

Date	02-Aug-2026
Pattern Type	SPORT
Pattern Difficulty	HIGH
Pattern Volume (ml)	32.80

Pattern Parameters

Split Pattern	No
Pattern Name	26-27NCAA7
Start Cleaner Spray	0
Start Squeegee	0
Start Oiling	6

Supplies Information

Lane Cleaner	
Cleaner Mixture Ratio	4 : 1
Cleaner Spray End Distance	50
Lane Conditioner	

Surface Information

Surface Type	
Surface Brand	
Age	

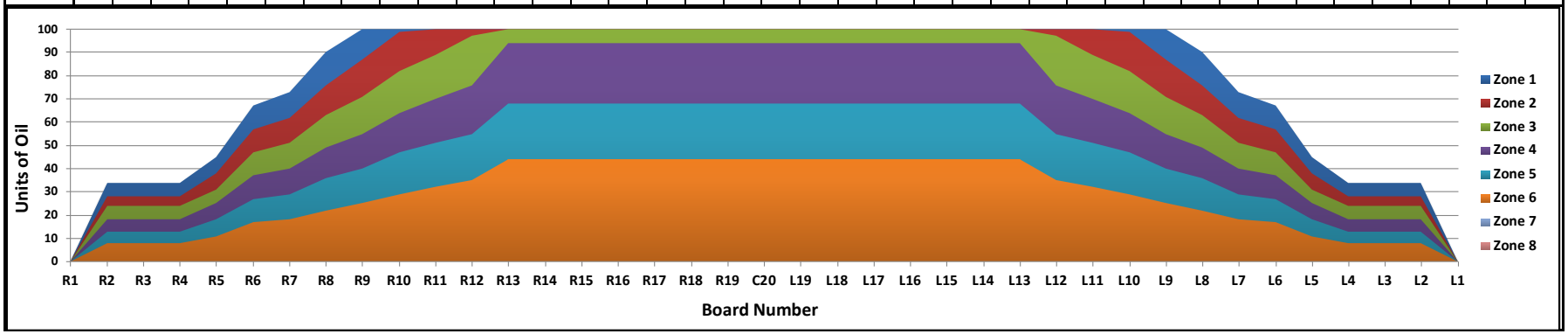
SPORT	<4 : 1
CHALLENGE	4-8 : 1
RECREATIONAL	>8 : 1

USBC Ratio Definitions

Notes: 2026-2027 NCAA 7

Zone	1	2	3	4	5	6	7	8	Pattern Ratio by Volume (3-7:18-18)
Zone End Distance	6	12	17	22	27	35	43		
Zone Ratio L	1.9 : 1	2.3 : 1	2.8 : 1	3.4 : 1	3.4 : 1	3.5 : 1	:	:	L 2.67 :1
Zone Ratio R	1.9 : 1	2.3 : 1	2.8 : 1	3.4 : 1	3.4 : 1	3.5 : 1	:	:	R 2.67 :1
Zone Volume (ml)	7.68	7.31	5.67	4.93	3.57	3.64	0.00		

ZONE	7 Pin Side																	Board Number										10 Pin Side																
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	C20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1
1	0	34	34	34	45	67	73	90	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	90	73	67	45	34	34	34	0
2	0	28	28	28	38	57	62	76	87	99	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	99	87	76	62	57	38	28	28	28	0
3	0	24	24	24	31	47	51	63	71	82	89	97	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	97	89	82	71	63	51	47	31	24	24	24	0
4	0	18	18	18	25	37	40	49	55	64	70	76	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	76	70	64	55	49	40	37	25	18	18	18	0
5	0	13	13	13	18	27	29	36	40	47	51	55	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	55	51	47	40	36	29	27	18	13	13	13	0
6	0	8	8	8	11	17	18	22	25	29	32	35	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	35	32	29	25	22	18	17	11	8	8	8	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



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26-27NCAA7

Crosswise Ratios (by units)

	Zone 1	Average	Ratio
3L-7L	Left =	50.6	1.9
3R-7R	Right=	50.6	1.9
18L-18R	Center =	100.0	

	Zone 2	Average	Ratio
3L-7L	Left =	42.6	2.3
3R-7R	Right=	42.6	2.3
18L-18R	Center=	100.0	

	Zone 3	Average	Ratio
3L-7L	Left =	35.4	2.8
3R-7R	Right=	35.4	2.8
18L-18R	Center=	100.0	

	Zone 4	Average	Ratio
3L-7L	Left =	27.6	3.4
3R-7R	Right=	27.6	3.4
18L-18R	Center =	94.0	

	Zone 5	Average	Ratio
3L-7L	Left =	20.0	3.4
3R-7R	Right=	20.0	3.4
18L-18R	Center=	68.0	

	Zone 6	Average	Ratio
3L-7L	Left =	12.4	3.5
3R-7R	Right=	12.4	3.5
18L-18R	Center=	44.0	

	Zone 7	Average	Ratio
3L-7L	Left =	0.0	
3R-7R	Right=	0.0	
18L-18R	Center =	0.0	

	Zone 8	Average	Ratio
3L-7L	Left =	0.0	
3R-7R	Right=	0.0	
18L-18R	Center=	0.0	

Crosswise Ratios (by ml)

	Zone 1	Average	Ratio
3L-7L	Left =	0.127	1.9
3R-7R	Right=	0.127	1.9
18L-18R	Center =	0.251	

	Zone 2	Average	Ratio
3L-7L	Left =	0.107	2.3
3R-7R	Right=	0.107	2.3
18L-18R	Center=	0.251	

	Zone 3	Average	Ratio
3L-7L	Left =	0.074	2.8
3R-7R	Right=	0.074	2.8
18L-18R	Center=	0.210	

	Zone 4	Average	Ratio
3L-7L	Left =	0.058	3.4
3R-7R	Right=	0.058	3.4
18L-18R	Center =	0.197	

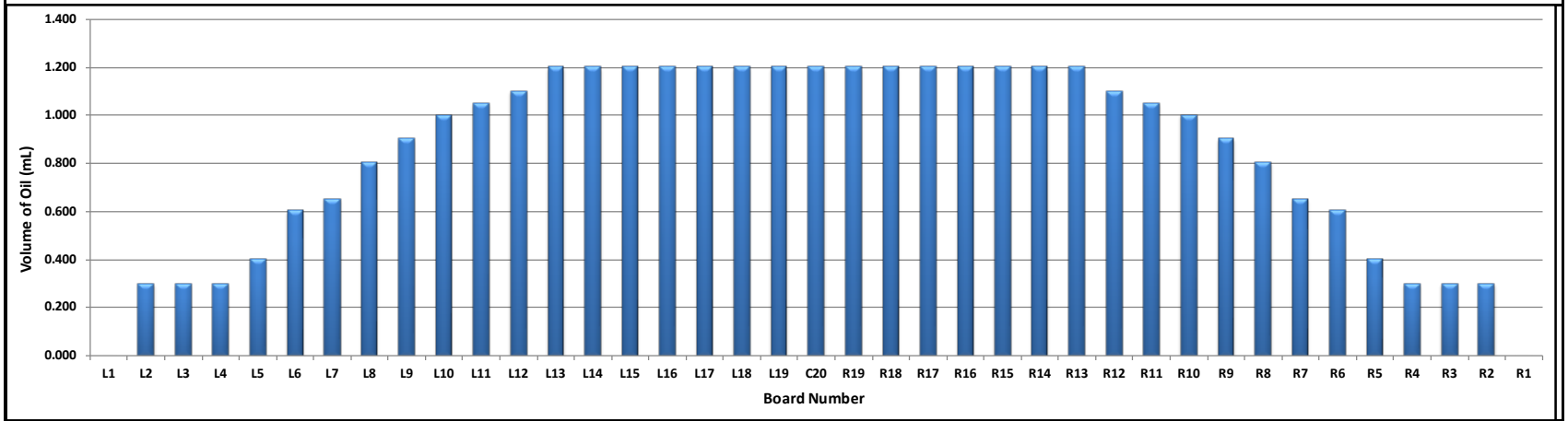
	Zone 5	Average	Ratio
3L-7L	Left =	0.042	3.4
3R-7R	Right=	0.042	3.4
18L-18R	Center=	0.143	

	Zone 6	Average	Ratio
3L-7L	Left =	0.042	3.5
3R-7R	Right=	0.042	3.5
18L-18R	Center=	0.148	

	Zone 7	Average	Ratio
3L-7L	Left =	0.000	
3R-7R	Right=	0.000	
18L-18R	Center =	0.000	

	Zone 8	Average	Ratio
3L-7L	Left =	0.000	
3R-7R	Right=	0.000	
18L-18R	Center=	0.000	

The above crosswise ratios are calculated by the average units of oil for boards 18L - 18R and divided by the average units of oil for board 3 - 7 left and right.



3L-7L:18L-18R	8L-12L:18L-18R	13L-17L:18L-18R	18L-18R:17R-13R	18L-18R:12R-8R	18L-18R:7R-3R
Outside Track: Middle	Middle Track: Middle	Inside Track: Middle	Middle: Inside Track	Middle: Middle Track	Middle: Outside Track
2.67	1.24	1.00	1.00	1.24	2.67

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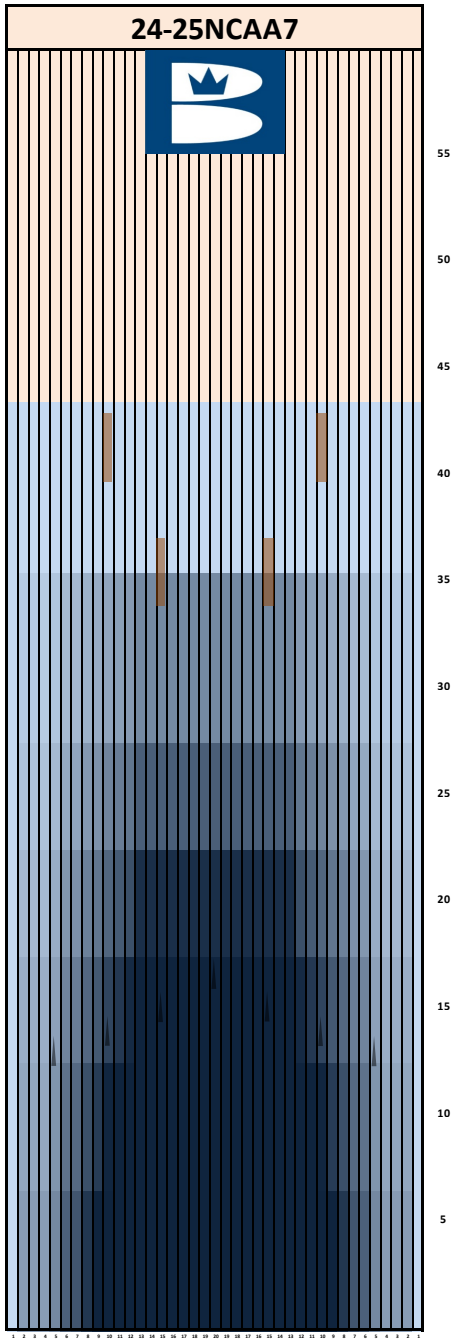
Lengthwise Ratio By Area			
	3L-7L	18L-18R	3R-7R
	Left	Center	Right
Zone 2	1.1	1.0	1.1
Zone 3	1.4	1.0	1.4
Zone 4	1.8	1.0	1.8
Zone 5	2.5	1.4	2.5
Zone 6	4.0	2.2	4.0
Zone 7			
Zone 8			

26-27NCAA7

Lengthwise Ratio By Board (units & ml)

	7 Pin Side											Board Number																																		
Zone	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	C20	R19	R18	R17	R16	R15	R14	R13	R12	R11	R10	R9	R8	R7	R6	R5	R4	R3	R2	R1							
2		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2							
3		1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.2	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4							
4		1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.6	1.4	1.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.4	1.6	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9							
5		2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.5	2.1	2.0	1.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.8	2.0	2.1	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6							
6		4.3	4.3	4.3	4.1	3.9	4.1	4.1	4.0	3.4	3.1	2.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.1	3.4	4.0	4.1	4.1	3.9	4.1	4.3	4.3	4.3							
7																																														
8																																														

The lengthwise ratios are calculated from the volumes in the first zone.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