

PPC - How Lewis Class Works for Our Matches

Introduction

The Lewis Classification System (Lewis Class) is a method for distributing prize money across a whole field of shooters, and not just to the best shooters who come out at the top in a match. Lewis Class gives all shooters a chance at winning some money, regardless of their skill level.

There is no "one size fits all" way to do it, and Match Directors must pre-determine how they want to do it, and set the rules to be followed in advance of holding a match. It can get confusing, so it's important to have the rules and procedures to be followed in writing for handy reference.

Using test data, the spreadsheet below provides an example to illustrate how we determine Lewis Classes, break ties, and assign Place Awards for the PPC Matches held at HH&A. Lewis Class Payout Calculators are used to determine the payouts, making the process consistent, fast, and easy.

Gun Classes

There are 5 Gun Classes in our PPC matches.

- Stock Service Semi Auto Pistol (Centerfire, Iron Sights).
- Stock Service Revolver (Centerfire, Iron Sights).
- Stock Off Duty Semi Auto Pistol or Revolver (Centerfire, Iron Sights).
- Any Rimfire Gun – .22 Rimfire Semi Auto Pistol or Revolver (Iron Sights and Red Dots allowed)
- Open Centerfire Gun – Centerfire Semi Auto Pistol or Revolver (Red Dots allowed)

Each Gun Class is handled separately for awards.

We use the rules below to determine Lewis Classes and Place Awards.

In this example, all shooters are in the Stock Semi Auto Pistol Gun Class.

The same rules would be used to determine classes and awards for the shooters in other Gun Classes.

Number of Paid Shooters

We have 64 paid shooters shown, ranked in descending order by Score and X-count.

Lewis Class Rules

For up to 1-10 shooters - Establish 1 Lewis Class - A

For 11-20 shooters - Establish 2 Lewis Classes - A, B

For 21-30 shooters - Establish 3 Lewis Classes - A, B, C

For 31-40 shooters - Establish 4 Lewis Classes - A, B, C, D

For 41-50 shooters - Establish 5 Lewis Classes - A, B, C, D, E

For 51-60 shooters - Establish 6 Lewis Classes - A, B, C, D, E, F

For 61-70 shooters - Establish 7 Lewis Classes - A, B, C, D, E, F, G

Etc.

Since we have 64 shooters, we need to establish 7 Lewis Classes.

Divide 64 shooters by 7 to create groups for Lewis Classes A through G.

Since we have an odd number of shooters, the remainder goes into the last group (Lewis Class G).

Lewis Classes A through F contain 9 shooters. Lewis Class G contains 10, including the remainder of 1.

Place Award Rules

1st, 2nd, and 3rd Place Awards normally go to the top 3 Shooters in each Lewis Class using a 50/30/20% split of their allocated Payout Pot.

Sometimes there are ineligible shooters (who can't win a 2nd or 3rd award in the same Lewis Class), or there might be tie scores to consider.

In situations involving ineligible shooters, the award passes down to the next eligible shooter within the same Lewis Class.

Handling Tie Scores Falling on a Lewis Class Division Line

Grouping Tie Scores in the Appropriate Lewis Class

When a tie score falls exactly on the dividing line between two Lewis Classes, the following rules will be used to assign contestants to a new class:

Majority rule: If more contestants with the tied score are on one side of the original Lewis Class line, all contestants with that score will be moved into the class with the majority.

Equal split: If there is an equal number of tied scores on either side of the original Lewis Class line, all contestants with that score will be moved into the higher-ranking positions of the lower class.

Breaking Ties - NRA PPC Rulebook, Section 15.3

Once the Tie Scores have been moved to the appropriate Lewis Class, we will try to break the ties if possible. In tie score situations, the X-count is the primary tie-breaker. However, ties can still exist, and we will use the rules in Section 15.3 of the NRA PPC Rulebook, shown below, to try and break them.

Section 15.3 Breaking Ties: When 2 or more competitors or teams have the same numerical score, tie scores will be ranked in the following order:

- a. By the greatest number of X's in that match.
- b. By the fewest misses in that match.
- c. By the fewest number of shots of the lowest value in that match.
- d. By the fewest number of shots of the next lower value in that match.

Note: If a tie can not be broken using the PPC Rulebook, then we declare it a "tie" and the winners split the place award evenly. The award may need to be rounded up to allow an even split.

Determining Place Award Positions

Once all tie scores are either broken or declared a tie, any falling in the top 3 award payout positions at the head of the class will be assigned to 1st, 2nd, and 3rd place. If a tie exists in any one

of those 3 positions, then the tied contestants will split the place award evenly, rounding up as necessary to allow an even split.

Sometimes a particular Gun Class may not have many shooters in it (e.g., Off Duty). If so, it may only have Lewis Class A established. If only 2 eligible shooters exist, only 1st and 2nd Places are awarded using a 60/40% split of the money in the allocated Payout Pot. If only 1 eligible shooter exists, only 1st Place is awarded using 100% of the allocated Payout Pot. We have set up some examples below to illustrate how ineligible shooters and ties are handled when determining Place Awards. See Comments for explanations.

Awards

Our goal is to pay minimum of 50% of entry fees received back to the shooters as cash awards. The Place Award amounts are determined separately using our Lewis Class Payout Calculator, which is programmed with agreed-upon formulas to establish payout pots, and provide fair and balanced distribution of awards across all Lewis Classes.

Cash awards are rounded to the nearest dollar to avoid using coins.

Certificates of Achievement are awarded to anyone who shoots a 600 score in a Combat 600 match (600 Club), or a 500 score in an Off Duty match (500 Club), and for anyone who breaks or ties a Standing Record in any Gun Class.

Standing Records will be maintained for any High Individual scoring records set or tied in each Gun Class.

PPC Combat 600 Match - Test Results

Lewis Classes 1-10-19-28-37-46

Stock Service Semi Auto Class - 64 Paid Shooters @ \$5 ea

	Shooter	Class	Score	X	Place	Award	Comments
1	1 Jason S	S/A	600	54	A-1	18	Here we have normal Payouts for 1st, 2nd and 3rd Places. No issues present. Jason set a new Stock Service S/A High Individual Scoring record with his 600-54x, and will be added to our Standing Records and Honorary 600 Club. He will also get a Certificate of Achievement for his accomplishments.
2	2 Marty J	S/A	593	42	A-2	11	
3	3 Mike C	S/A	590	32	A-3	7	
4	4 Jason S	S/A	585	30			
5	5 Mike K	S/A	581	26			
6	6 Rick W	S/A	580	26			
7	7 Ed K	S/A	579	25			
8	8 Tom Z	S/A	578	32			
9	9 David K	S/A	577	30			
10	1 Marty R	S/A	575	37	B-1	10	In this example, Marty is ineligible for a 2nd award in the same Lewis Class. The B-3 award moves down to John, the next eligible shooter.
11	2 George M	S/A	575	30	B-2	6	
12	3 Marty R	S/A	574	29			
13	4 John P	S/A	573	29	B-3	4	
14	5 Sue H	S/A	571	24			
15	6 Eric P	S/A	568	25			
16	7 Tom S	S/A	566	24			

17	8	James D	S/A	565	30			
18	9	Tom Z	S/A	563	32			
19	1	Sue M	S/A	561	24	C-1	10	Here we have a 2-way tie for C-1.
20	2	Tom R	S/A	561	24	C-2	6	The tie is broken using Section 15.3 of the
21	3	Dave F	S/A	556	19	C-3	4	NRA PPC Rulebook. Sue had the fewest
22	4	Dick R	S/A	551	19			number of shots of the lowest value in that
23	5	Sue H	S/A	550	21			Match, so she gets C-1.
24	6	Jim H	S/A	550	18			
25	7	George M	S/A	549	22			The C-2 and C-3 awards go to Tom and Dave.
26	8	Norm A	S/A	542	19			
27	9	Dave K	S/A	542	19			
28	1	George M	S/A	542	19			Here we have a 3-way tie crossing the Lewis
29	2	Norm T	S/A	542	14	D-1	10	Class dividing line.
30	3	Dave C	S/A	537	31	D-2	6	George will be moved up to the higher C Class
31	4	George M	S/A	535	28	D-3	4	where the majority of the tie scores appear.
32	5	Rick W	S/A	531	24			George gets no award.
33	6	Dave H	S/A	530	24			The D Class awards will move down to Norm,
34	7	Lane P	S/A	529	20			Dave, and George, the next eligible shooters.
35	8	Lawrence P	S/A	528	15			
36	9	Frank R	S/A	527	19	E-1	10	
37	1	Dick S	S/A	527	19	E-2	6	Here we have another 3-way tie crossing
38	2	Ken W	S/A	527	19	E-3	4	the Lewis Class dividing line.
39	3	Jim L	S/A	525	17			Frank will be moved down to the lower E Class
40	4	Dave F	S/A	523	14			where the majority of the tie scores appear.
41	5	Lane A	S/A	522	11			Using Section 15.3 of the NRA PPC Rulebook,
42	6	Ken W	S/A	517	18			the ties were broken, and in this case the 3
43	7	Jim S	S/A	516	18			shooters remain in the same order for awards.
44	8	Dave B	S/A	435	12			
45	9	Ed D	S/A	511	15	F-1	10	
46	1	Vince K	S/A	511	15	F-2	6	In this case, we have a two-way tie crossing
47	2	Mike L	S/A	510	12	F-3	4	the Lewis Class dividing line. Ed D will be moved
48	3	Tom S	S/A	509	14			down to head the lower class F where the tie with
49	4	Dennis C	S/A	508	12			Vince appears. Using Section 15.3 of the NRA PPC
50	5	Tom M	S/A	506	11			Rulebook, the ties are broken, and Ed came
51	6	Dennis T	S/A	500	10			out ahead of Vince for for the F-1 award.
52	7	Ed D	S/A	499	9			Vince gets the F-2 award.
53	8	Bob D	S/A	491	12			
54	9	David K	S/A	487	8			
55	1	George Z	S/A	482	12	G-1 Tie	5	In this case, we have a two-way tie for G-1
56	2	Norm S	S/A	482	12	G-1 Tie	5	which could not be broken by the NRA PPC
57	3	Dave A	S/A	479	11	G-2	6	Rulebook. So, we declare it a tie, and George and
58	4	George Y	S/A	475	10	G-3	4	Norm split the \$10 G-1 award evenly.

59	5	Rick N	S/A	450	9		
60	6	Dave B	S/A	435	9		
61	7	Lane M	S/A	429	7		
62	8	Eric K	S/A	418	6		
63	9	Mike P	S/A	415	5		
64	10	Frank E	S/A	*DNF*		Frank fired one shot, had a disabled gun, dropped out.	

Fees Received
320

Awards Paid
156

(64 * \$5)

48.75%

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