

# Climbing Escalade Canada

## Continuous National Ranking (CNR)

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FRAMEWORK FOR 2021-2024  
OCTOBER 2022

### Overview

The purpose of the Continuous National Ranking (CNR) is to provide a system for ranking athletes based on performances across multiple levels of relevant competitions. The CNR will remain consistent from season to season and is the base framework for athlete selections.

The CNR was created in an extensive collaboration/consultation with the following groups:

- Athlete Commission
- Provincial and Territorial Sport Organizations (PTSO) representatives
- High Performance Committee (HPC)
- Sport Partners (Own The Podium, Sport Canada)

CEC performed a detailed analysis of IFSC and Domestic Results over the 2016-2020 seasons. This historical data was used to understand and account for the factors that affect results at each level (strength of field, size of field and level of competition). The resulting CNR calculation includes these factors to be as objective and precise as possible.

The CNR includes results from relevant National and International Level competition series. It is calculated in real time throughout each calendar year. Results are converted to Ranking Points using the calculations detailed in section B. below.

A Continuous National Ranking will be calculated for each of the following disciplines:

- Lead
- Boulder
- Speed
- Combined (Lead/Boulder)

The CNR will be used for the following:

- Selection to HP Program
- Teams Selections for IFSC and Continental Events

### **Definitions**

The following terms will be used throughout this document:

- Event Points: Refers to the points assigned to an athlete's result after performing the CNR Calculation outlined below.
- Event Type: Refers to the level or series of events:
  - Major Games - Olympic Games and Pan American Games
  - IFSC World - World Cups (WC), Senior World Championships (WCH) and Youth World Championships (YWC)
  - Continental - Pan Am Cups and North American Series (NACS) Events
  - Domestic - CEC Senior Nationals and HP Competitions
- Seasons: in reference to event calendars
  - Competition Season - The time period between the first and last dates of a published annual event calendar for each organizing body (i.e., IFSC, NACS, CEC, IFSC PanAM)

Council).

- A competition season may occur over 2 calendar years (i.e., the 2021/2022 CEC competition season runs from November 17<sup>th</sup>/2021 to May 25<sup>th</sup>/ 2022).
- Current Competition Season - At least one event has been held and at least one event is remaining on the published annual calendar of events.
- Past Competition Season - All events have been concluded for the annual calendar of events.

## AMENDMENTS

The initial CNR framework was posted in January 2021 (version 1).

As a result of the ongoing and changing world of COVID-19, CEC made amendments to the framework (version 2). These amendments have been made in consultation with the High Performance Committee, the Athlete Commission and Sport System Advisors (OTP).

A 2021-2022 review was conducted between June-September.

This current document (version 3) replaces the October 2021 document (version 2) in its entirety.

## **LEAD, BOULDER, SPEED**

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For Individual Disciplines, the CNR is the sum of an athletes' best 3 Event Points from the previous 24 months and considering the conditions outlined below:

### **A. EXPIRATION OF POINTS**

Event points will be removed from the CNR on the 24-month anniversary of the event date with the following exceptions:

- Event points that are more than 12 months old will be given a 15% decay in value.

### **B. EVENT LIMITS**

- A maximum of 1 event point score per discipline that is older than 12 months is eligible for inclusion in a CNR total.
- A maximum of 2 NACS point scores per discipline are eligible for inclusion in a CNR total, however, only a maximum of 1 NACS point score per discipline from the "current season" is eligible.

## **Event Points Calculation**

Event Points are calculated as follows:

**Position Points X Strength of Field Factor (SToF) X Size of Field Factor (SZoF) = Event Points**

### **C. POSITION POINTS**

An athlete's result is converted to **Position Points** using the values in the Position Points Tables found at the end of this document.

#### **C.1 Strength of Field (SToF) and Size of Field (SZoF) explained**

- The purpose of these 2 calculations is to adjust the weight of the position points according to how difficult it is to achieve the result.
- Strength of Field Factor (SToF) considers the impact of how many highly ranked athletes are in the field.
- Size of Field Factor (SZoF) considers the impact of the total number of competitors in the field.
- When used together, SToF and SZoF ensure that the resulting EVENT POINTS are an accurate representation of the relative quality of a result.
- For events that have more highly ranked competitors in the field, the SToF adds weight to the position points. For events that have fewer highly ranked competitors in the field, SToF subtracts weight from the position points.
- For events that have more than the average number of athletes in the field, SZoF adds weight to the position points.
- For events that have fewer than the average number of athletes in the field, SZoF subtracts weight from the position points.

## C.2 Size of Field Factor (SZoF)

The Size of Field Factor is determined by the variation in the size of an event field relative to the normalized average field size for the season. It is calculated as shown below:

The normalized average field size is updated annually based on the IFSC's prior year's data and shown in Table 1 below.

**Positive SZoF (greater than normalized average event field size):**

$$= ((\text{event field minus normalized average field})/2)/80 + 1$$

**Negative SZoF (less than normalized average event field size):**

$$= (\text{event field minus normalized average field})/80 + 1$$

- Positive Size of Field Factor (greater than 1) will be applied to all positions except:
  - NACS - will have an upper limit SZoF value of 1.2
- Negative Size of Field Factor (less than 1) will be applied to all positions **except** the following:
  - IFSC WC and WCH – semi-final positions (lead, boulder) and round of 16 (speed).
  - Continental Events – Negative SZoF will be applied to all positions at NACS events with a lower limit of 0.70

## C.3 Points Cut-OFFs

Points are only available for a **Fixed Percentages of Final Positions in the Field** for each level of competition. These are outlined in Table 1 below. Field Size is taken from official results on the event website.

**Table 1 - Normalized Average Field Size and of Points Cut-OFFs 2022-23**

Event Type	Discipline(s)	Normalized Average Field Size	Field Points Cut-OFFs
<b>IFSC Senior (WC and WCH)</b>	Lead, Boulder	80	<b>75% or top 20 – whichever is greater</b>
	Speed	60	<b>75% or top 16 – whichever is greater</b>
<b>Continental Senior (NACS and PA Cups)</b>	Lead	30	<b>60% or top 20 – whichever is greater</b>
	Boulder	45	<b>60% or top 20 – whichever is greater</b>
	Speed	30	<b>60% or top 8 – whichever is greater</b>
<b>Domestic Senior (Nationals and HP Comps)</b>	Lead, Boulder	n/a	<b>top 20</b>
	Speed	n/a	<b>top 16</b>
<b>IFSC Youth (YWC)</b>	Lead, Boulder	n/a	<b>semi-final</b>
	Speed	n/a	<b>top 16</b>

## C.4 Strength of Field Factor (SToF)

The relative Strength of the Field for an event is determined by the number of athletes in the field from the top portions of the relevant rankings (IFSC SToF Factor for IFSC WCH and WC considers athletes in the field from the IFSC Continuously Updating World Ranking (CUWR) Top 40. This number is the converted to a SToF Factor as outlined in Table 2 below.

**Table 2 – Strength of Field Factor (SToF)**

<b>Event Type</b>	<b>Condition</b>	<b>Thresholds</b>	<b>SToF Factor</b>
<b>IFSC Senior Events (World Championships and World Cups)</b>	The Number of Athletes from IFSC CUWR Top 40 as of the day before the event.	35-40	= 1.3
		30-34	= 1.2
		25-29	= 1.1
		20-24	= 1.0
		15-19	= 0.9
		11-14	= 0.8
		0-10	= 0.7
<b>Continental Senior Events (NACS and Pan Am Cups)</b>	The Number of Athletes from PAC Continental Ranking as of the day before the event.	10 or more	= 1.1
		6-9	= 1.0
		0-5	= 0.9
<b>Youth World Championships (Youth A and Junior Categories)</b>	Number of athletes in field from IFSC Season Ranking Top 40 as of the day before the event.	3 or more	= 1.1
		1-2	= 1.0
		0	= 0.9
<b>Youth World Championships (Youth B Categories)</b>	Fixed SToF Factor	fixed	= 1.0
<b>Domestic Senior HP Events (HP Competitions and CEC Nationals)</b>	Number of athletes in field from Top 4 of CEC Continuous National Ranking as of the day before the event.	3 or more	= 1.1
		1-2	= 1.0
		0	= 0.9

\* If Relevant Rankings are not available due to event interruptions or season cancellations, the SToF Factor shall be 1.0.

## **COMBINED**

### **A. PURPOSE AND OBJECTIVES**

#### **A.1 Purpose**

The primary purpose of the Combined CNR is to identify and rank athletes on the pathway to the Paris 2024 Olympic Games. Consequently, Combined Continuous Ranking will only be applied to athletes who qualify and are invited to the HP Competition in both Lead and Boulder.

#### **A.2 Objectives:**

- Rank athletes across both Lead and Boulder disciplines
- Avoid potential bias towards either discipline because of variance in available points (larger average fields)
- Provide a ranking that represents relative potential to perform in the Olympic Combined Format

### **B. CALCULATION**

To achieve the objectives above the combined CNR calculation is as follows:

#### **B.1 Discipline Combined CNR Points (for each of Lead and Boulder):**

This the ratio of points an athlete earns to the cumulative total of CNR discipline points earned by all athletes in that discipline.

#### **B.2 Combined CNR Total Points:**

The sum of both Discipline Combined CNR points

**Lead Combined CNR Points + Boulder Combined CNR Points = Combined CNR Total Points**

### **C. COMBINED (BOULDER & LEAD) COMPETITIONS**

Athletes may use points earned at IFSC Combined Boulder & Lead (B&L) competitions to replace

one (1) each Lead and/or Boulder CNR values:

(i.e., Athlete A finishes 22nd at Morioka 2022 IFSC Combined (B&L) WC in a field of 80 = 75.6

pts.

Athlete can use this value to replace one boulder and/or one lead event point value in their totals)

Position Points Tables

**Position Points Tables**

Senior Domestic Events						Youth World Events			
HP Competitions			CEC Nationals			IFSC Youth			
Result	Position Points		Result	Position Points		Result	Position Points		
	L&B	S		L&B	S		BOULDER	LEAD	SPEED
1	35.0	35.0	1	33.0	33.0	1	52.0	52.0	52.0
2	34.0	34.0	2	31.7	31.7	2	51.0	51.0	51.0
3	32.4	32.4	3	29.8	29.8	3	50.0	50.0	50.0
4	30.5	30.5	4	27.4	27.4	4	47.9	47.9	47.9
5	28.2	28.2	5	24.7	24.7	5	45.7	45.7	45.7
6	25.7	25.7	6	21.7	21.7	6	43.6	43.6	43.6
7	23.0	14.0	7	18.7	11.0	7	41.4	41.4	41.4
8	20.2	14.0	8	15.7	11.0	8	39.3	39.3	39.3
9	17.5	6.0	9	12.9	5.0	9	37.1	37.1	37.1
10	13.5	6.0	10	10.3	5.0	10	35.0	35.0	35.0
11-20	6.0	6.0	11-20	5.0	5.0	11	32.8	32.8	32.8
						12	30.7	30.7	30.7
						13	28.5	28.5	28.5
						14	26.4	26.4	26.4
						15	24.2	24.2	24.2
						16	22.1	22.1	22.1
						17	19.9	19.9	
						18	18.9	18.9	
						19	18.0	18.0	
						20	18.0	18.0	
						21		18.0	
						22		18.0	
						23		18.0	
						24		18.0	
						25		18.0	
						26		18.0	

## Senior Continental Events

PanAm Championships							Continental Cups						
Result	Position Points			Result	Position Points		Result	Position Points			Result	Position Points	
	BOULDER	LEAD	SPEED		BOULDER	LEAD		BOULDER	LEAD	SPEED		BOULDER	LEAD
1	60.0	60.0	60.0	27	12.4	12.4	1	50.0	50.0	50.0	27	11.2	11.2
2	58.0	58.0	58.0	28	11.7	11.7	2	48.0	48.0	48.0	28	10.2	10.2
3	56.0	56.0	56.0	29	11.0	11.0	3	46.0	46.0	46.0	29	9.2	9.2
4-6	47.0	47.0	47.0	30	10.4	10.4	4-6	43.0	43.0	43.0	30	8.3	8.3
7-8	45.0	47.0	47.0	31	9.7	9.7	7-8	41.0	43.0	43.0	31	7.5	7.5
9-16	32.0	32.0	32.0	32	9.1	9.1	9-16	30.0	30.0	30.0	32	6.7	6.7
17	20.0	20.0		33	8.5	8.5	17	22.0	22.0		33	6.0	6.0
18	20.0	20.0		34	7.9	7.9	18	22.0	22.0		34	5.3	5.3
19	20.0	20.0		35	7.4	7.4	19	22.0	22.0		35	4.7	4.7
20	20.0	20.0		36	6.8	6.8	20	22.0	22.0		36	4.1	4.1
21	16.8	20.0		37	6.3	6.3	21	18.6	22.0		37	3.6	3.6
22	16.1	20.0		38	5.9	5.9	22	17.2	22.0		38	3.2	3.2
23	15.3	20.0		39	5.4	5.4	23	15.9	22.0		39	2.8	2.8
24	14.6	20.0		40	5.0	5.0	24	14.7	22.0		40	2.4	2.4
25	13.9	20.0					25	13.5	22.0				
26	13.1	20.0					26	12.3	22.0				



IFSC World Championships								IFSC World Cup							
Result	Position Points			Result	Position Points			Result	Position Points			Result	Position Points		
	BOULDER	LEAD	SPEED		BOULDER	LEAD	SPEED		BOULDER	LEAD	SPEED		BOULDER	LEAD	SPEED
1	95.0	95.0	95.0	46	32.5	32.5	32.5	1	92.0	92.0	92.0	46	31.5	31.5	31.5
2	92.0	92.0	92.0	47	31.2	31.2	31.2	2	90.0	90.0	90.0	47	30.2	30.2	30.2
3	90.0	90.0	90.0	48	29.7	29.7	29.7	3	87.0	87.0	87.0	48	28.7	28.7	28.7
4	88.0	88.0	88.0	49	28.2	28.2	28.2	4	85.0	85.0	85.0	49	27.3	27.3	27.3
5	86.0	86.0	86.0	50	26.8	26.8	26.8	5	83.0	83.0	83.0	50	26.0	26.0	26.0
6	84.0	84.0	84.0	51	25.4	25.4	25.4	6	81.0	81.0	81.0	51	24.6	24.6	24.6
7	83.0	83.0	83.0	52	24.1	24.1	24.1	7	80.0	80.0	80.0	52	23.4	23.4	23.4
8	82.0	82.0	82.0	53	22.8	22.8	22.8	8	79.0	79.0	79.0	53	22.1	22.1	22.1
9	81.0	81.0	81.0	54	21.6	21.6	21.6	9	78.0	78.0	78.0	54	20.9	20.9	20.9
10	80.0	80.0	80.0	55	20.4	20.4	20.4	10	77.0	77.0	77.0	55	19.8	19.8	19.8
11	79.0	79.0	79.0	56	19.3	19.3	19.3	11	76.0	76.0	76.0	56	18.7	18.7	18.7
12	78.0	78.0	78.0	57	18.2	18.2	18.2	12	75.0	75.0	75.0	57	17.6	17.6	17.6
13	77.0	77.0	77.0	58	17.1	17.1	17.1	13	74.0	74.0	74.0	58	16.6	16.6	16.6
14	76.0	76.0	76.0	59	16.1	16.1	16.1	14	73.0	73.0	73.0	59	15.6	15.6	15.6
15	75.0	75.0	75.0	60	15.1	15.1	15.1	15	72.0	72.0	72.0	60	14.7	14.7	14.7
16	74.0	74.0	74.0	61	14.2	14.2	14.2	16	71.0	71.0	71.0	61	13.8	13.8	13.8
17	73.0	73.0	73.0	62	13.3	13.3	13.3	17	70.0	70.0	70.0	62	12.9	12.9	12.9
18	72.0	72.0	72.0	63	12.5	12.5	12.5	18	69.0	69.0	69.0	63	12.1	12.1	12.1
19	71.0	71.0	71.0	64	11.7	11.7	11.7	19	68.0	68.0	68.0	64	11.3	11.3	11.3
20	70.0	70.0	70.0	65	10.9	10.9	10.9	20	67.0	67.0	67.0	65	10.6	10.6	10.6
21	69.2	69.2	69.2	66	10.2	10.2	10.2	21	66.0	66.0	66.0	66	9.9	9.9	9.9
22	67.9	67.9	67.9	67	9.5	9.5	9.5	22	65.7	65.7	65.7	67	9.2	9.2	9.2
23	66.5	66.5	66.5	68	8.9	8.9	8.9	23	64.4	64.4	64.4	68	8.6	8.6	8.6
24	65.1	65.1	65.1	69	8.3	8.3	8.3	24	63.1	63.1	63.1	69	8.0	8.0	8.0
25	63.7	63.7	63.7	70	7.7	7.7	7.7	25	61.7	61.7	61.7	70	7.5	7.5	7.5
26	62.3	62.3	62.3	71	6.0	6.0	6.0	26	60.3	60.3	60.3	71	5.0	5.0	5.0
27	60.8	60.8	60.8	72	6.0	6.0	6.0	27	58.9	58.9	58.9	72	5.0	5.0	5.0
28	59.3	59.3	59.3	73	6.0	6.0	6.0	28	57.4	57.4	57.4	73	5.0	5.0	5.0
29	57.8	57.8	57.8	74	6.0	6.0	6.0	29	56.0	56.0	56.0	74	5.0	5.0	5.0
30	56.3	56.3	56.3	75	6.0	6.0	6.0	30	54.5	54.5	54.5	75	5.0	5.0	5.0
31	54.7	54.7	54.7	76	6.0	6.0	6.0	31	53.0	53.0	53.0	76	5.0	5.0	5.0
32	53.2	53.2	53.2	77	6.0	6.0	6.0	32	51.5	51.5	51.5	77	5.0	5.0	5.0
33	51.7	51.7	51.7	78	6.0	6.0	6.0	33	50.0	50.0	50.0	78	5.0	5.0	5.0
34	50.1	50.1	50.1	79	6.0	6.0	6.0	34	48.6	48.6	48.6	79	5.0	5.0	5.0
35	48.6	48.6	48.6	80	6.0	6.0	6.0	35	47.1	47.1	47.1	80	5.0	5.0	5.0
36	47.1	47.1	47.1	81	6.0	6.0	6.0	36	45.6	45.6	45.6	81	5.0	5.0	5.0
37	45.5	45.5	45.5	82	6.0	6.0	6.0	37	44.1	44.1	44.1	82	5.0	5.0	5.0
38	44.0	44.0	44.0	83	6.0	6.0	6.0	38	42.6	42.6	42.6	83	5.0	5.0	5.0
39	42.5	42.5	42.5	84	6.0	6.0	6.0	39	41.2	41.2	41.2	84	5.0	5.0	5.0
40	41.0	41.0	41.0	85	6.0	6.0	6.0	40	39.7	39.7	39.7	85	5.0	5.0	5.0
41	39.6	39.6	39.6	86	6.0	6.0	6.0	41	38.3	38.3	38.3	86	5.0	5.0	5.0
42	38.1	38.1	38.1	87	6.0	6.0	6.0	42	36.9	36.9	36.9	87	5.0	5.0	5.0
43	36.7	36.7	36.7	88	6.0	6.0	6.0	43	35.5	35.5	35.5	88	5.0	5.0	5.0
44	35.3	35.3	35.3	89	6.0	6.0	6.0	44	34.2	34.2	34.2	89	5.0	5.0	5.0
45	33.9	33.9	33.9	90	6.0	6.0	6.0	45	32.8	32.8	32.8	90	5.0	5.0	5.0

Major Games					
Olympic Games			PanAm Games		
Result	Position Points		Result	Position Points	
	Combined (B&L)	SPEED		Combined (B&L)	SPEED
1	100.0	100.0	1	70.0	70.0
2	95.0	95.0	2	65.0	65.0
3	92.0	92.0	3	60.0	60.0
4	85.0	85.0	4	55.0	55.0
5	78.0	78.0	5	50.0	50.0
6	71.0	71.0	6	45.0	45.0
7	64.0	64.0	7	40.0	40.0
8	57.0	57.0	8	35.0	35.0
9	50.0	50.0	9	25.0	25.0
10	50.0	50.0	10	25.0	25.0
11	50.0	50.0	11	25.0	25.0
12	50.0	50.0	12	25.0	25.0
13	50.0	50.0	13	25.0	25.0
14	50.0	50.0	14	25.0	25.0
15	50.0		15	25.0	25.0
16	50.0		16	25.0	25.0
17	50.0		17	25.0	
18	50.0		18	25.0	
19	50.0		19	25.0	
20	50.0		20	25.0	



