



## **DETAILED DESCRIPTION OF THE SYSTEM TO CALCULATE THE RANKINGS**

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### **I. INDIVIDUAL RANKINGS**

#### 1. Introduction

This description explains the calculation procedure of the current world ranking list. It explains the different factors that determine the actual number of points each archer has on the ranking list.

#### 2. The Ranking Factor of a World Ranking Tournament

The first step is to determine the ranking factor (RF) for each World Ranking Tournament (WRT).

##### 2.1 Quality, Quantity and Period

Three sub-factors are considered to determine the ranking factor (RF) for each WRT.

- a) Quality
- b) Quantity
- c) Period

##### a) QUALITY

WRTs are classed into different quality groups:

Quality Factor 5:     The recent Olympic Games

                          The recent World Championships

Quality Factor 4.5:   World Cups (except for World Cup Finals)

For all other World Ranking Tournaments the quality factor is based on the number of archers ranked in the top 50 positions of the current world ranking list, as well as the top three positions for archers in one continental association in addition to the top 50 positions overall.

<u>Quality Factor</u>	<u>Number of participants in the top positions described above</u>
4	More than 20 top archers
3.5	Between 17 and 20 top archers
3	Between 13 and 16 top archers
2.5	Between 9 and 12 top archers
2	Between 5 and 8 top archers
1.5	Between 1 and 4 top archers
1	No top archers

#### b) QUANTITY

WRT are classed according to the number of archers competing.

<u>Quantity Factor</u>	<u>Number of archers competing</u>
1	More than 64 archers (The Olympic Games also take Quantity Factor 1)
0.9	Between 33 and 64 archers
0.8	Between 17 and 32 archers
0.7	Between 9 and 16 archers
0.5	Less than 9 archers, with Quality Factor = 1.5 or higher
0	Less than 9 archers, with Quality Factor = 1

#### c) PERIOD

This sub-factor is related to the ageing of the WRT. The longer the period between the date of the WRT and the date of the publication of the WRL, the lower the factor is until the WRT is too old and the factor becomes 0.

<u>Type of tournament</u>	<u>Factor</u>	<u>Period</u>
Olympic Games	1	Up to 12 months after the Games
	0.8	Between 12 and 24 months after the Games
	0	After 24 months
World Championships	1	Up to 12 months after the Championships
	0.8	After 12 months until the next World Champs.
	0	After the next World Championships
Continental Championships	1	Up to 12 months after the Championships
	0.8	After 12 months until the next Cont. Champs.
	0	After the next Continental Championships

Other WRT	1	Up to 12 months after their celebration
	0.5	After 12 months and up to 24 months after their celebration
	0	24 months after their celebration

## 2.2 Ranking Factor (RF)

The RF of a WRT is calculated by multiplying the three sub-factors:

$$\mathbf{RF = Quality\ Factor\ X\ Quantity\ Factor\ X\ Period\ Factor}$$

## 3 Final Position – Ranking Points

According to the final position of each archer in the Olympic Round, the following Ranking Points (RPs) are given.

<u>Final Position</u>	<u>Ranking Points</u>	
1	20	
2	17	
3	14	
4	12	
5	10	
6	9.5	
7	9	
8	8.5	
9	7	(all archers losing their 1/8 matches)
17	4	(all archers losing their 1/16 matches)

## 4 Ranking Score (RS)

The Ranking Points (RP) of each archer are multiplied by the Ranking Factor of the WRT where a Ranking Position was obtained, and the result of this multiplication produces each archer's Ranking Score (RS).

$$\mathbf{Ranking\ Score = Ranking\ points\ X\ Ranking\ Factor}$$

## 5 Added Ranking Score (ARS)

The four highest Ranking Scores (RS) of each archer are added. The result of this addition is the Added Ranking Score (ARS)

For the calculation of the ARS, a maximum of two RS whose period factor is lower than 1 may be considered.

## 6 World Ranking List (WRL)

The World Ranking List is the list of archers ranked according to their ARS.

**With the information supplied it is suggested that the Technical Delegate should calculate the Factor Value for the Tournament considering the competitors registered at the start of the event. The Factor Value may be announced at the Team Captains Meeting, with the provision that the Factor Value is subject to confirmation by the World Ranking Coordinator.**

**Note: It is possible that there can be different Factor Values for Compound/Recurve and Women/Men.**

### **II. TEAM RANKINGS**

1. Three sub-factors are considered to determine the ranking factor (RF) for each WRT.
  - a) Quality
  - b) Quantity
  - c) Period

#### a) QUALITY

WRTs are classed into different quality groups:

Quality Factor 5: The recent Olympic Games

The recent World Championships

Quality Factor 4.5: World Cups (except for World Cup Finals)

For all other World Ranking Tournaments the quality factor is based on the number of teams ranked in the top 16 positions of the current world ranking list.

<u>Quality Factor</u>	<u>Number of participants in the top positions described above</u>
4	More than 10 top teams
3.5	9 or 10 top teams
3	7 or 8 top teams
2.5	5 or 6 top teams
2	3 or 4 top teams
1.5	1 or 2 top teams
1	No top teams

## b) QUANTITY

WRT are classed according to the number of teams competing.

<u>Quantity Factor</u>	<u>Number of teams competing</u>
1	More than 16 teams (the Olympic Games also take Quantity Factor 1)
0.9	Between 13 and 16 teams
0.8	Between 9 and 12 archers
0.7	Between 5 and 8 archers
0.5	4 teams
0	Less than 4 teams

## c) PERIOD

This sub-factor is related to the ageing of the WRT. The longer the period between the date of the WRT and the date of the publication of the WRL, the lower the factor is until the WRT is too old and the factor becomes 0.

<u>Type of tournament</u>	<u>Factor</u>	<u>Period</u>
Olympic Games	1	Up to 12 months after the Games
	0.8	Between 12 and 24 months after the Games
	0	After 24 months
World Championships	1	Up to 12 months after the Championships
	0.8	After 12 months until the next World Champs.
	0	After the next World Championships
Continental Championships	1	Up to 12 months after the Championships
	0.8	After 12 months until the next Cont. Champs.
	0	After the next Continental Championships
Other WRT	1	Up to 12 months after their celebration
	0.5	After 12 months and up to 24 months after their celebration
	0	24 months after their celebration

## 2.3 Ranking Factor (RF)

The RF of a WRT is calculated by multiplying the three sub-factors:

$$\mathbf{RF = Quality Factor X Quantity Factor X Period Factor}$$

## 7 Final Position – Ranking Points

According to the final position of each archer in the Olympic Round, the following Ranking Points (RPs) are given.

<u>Final Position</u>	<u>Ranking Points</u>
1	25
2	21
3	18
4	15
5	13
6	12
7	11
8	10
9	8 (all teams losing their 1/8 matches)

## 8 Ranking Score (RS)

The Ranking Points (RP) of each team are multiplied by the Ranking Factor of the WRT where a Ranking Position was obtained, and the result of this multiplication produces each team's Ranking Score (RS).

$$\text{Ranking Score} = \text{Ranking points} \times \text{Ranking Factor}$$

## 9 Added Ranking Score (ARS)

The four highest Ranking Scores (RS) of each team are added. The result of this addition is the Added Ranking Score (ARS)

For the calculation of the ARS, a maximum of two RS whose period factor is lower than 1 may be considered.

## 10 World Ranking List (WRL)

The World Ranking List is the list of archers ranked according to their ARS.