

# **ITHF Table Hockey**

# **World Ranking Algorithm**

Approved by the ITHF  
Executive Committee

<b>1 OVERVIEW .....</b>	<b>3</b>
1.1 RESPONSIBILITIES .....	3
1.2 BRIEF DESCRIPTION OF THE RANKING .....	3
1.3 CONTACT PERSONS .....	3
<b>2 TOURNAMENTS .....</b>	<b>4</b>
2.1 WHICH TOURNAMENTS COUNT? .....	4
2.2 TOURNAMENT LEVELS .....	5
2.3 TOURNAMENTS WITH LESS THAN 4 PLAYERS .....	6
2.4 AGING TOURNAMENTS.....	6
2.5 INCOMPLETE TOURNAMENTS .....	6
<b>3 POINTS CALCULATION .....</b>	<b>7</b>
3.1 WHICH PLAYERS BEATEN-METHOD.....	7
3.2 NUMBER OF PLAYERS BEATEN-METHOD .....	7
3.3 SCALING METHOD.....	8
3.4 LINEAR METHOD.....	8
3.5 SUMMING IT UP.....	8
3.6 COUNTING EXAMPLE .....	8
<b>4 RANKING LISTS .....</b>	<b>9</b>
4.1 GENERAL.....	9
4.2 OPEN RANKING.....	9
4.3 WOMEN RANKING.....	9
4.4 JUNIOR RANKING .....	9
4.5 VETERAN RANKING .....	9
4.6 CLUB RANKINGS .....	10
4.7 NATIONS RANKING .....	10
4.8 WOMEN NATIONS RANKING .....	10
4.9 JUNIOR NATIONS RANKING .....	10
4.10 VETERAN NATIONS RANKING.....	10
<b>5 GUIDELINE FOR COUNTRY RESPONSIBLES .....</b>	<b>11</b>
5.1 HOW SHALL A TOURNAMENT BE REPORTED .....	11
5.2 CORRECT ERRONEOUS DATA IN THE RANKINGS .....	11
5.3 GET ALL TOURNAMENTS REPORTED.....	11
5.4 CALENDAR OF EVENTS.....	11

# 1 Overview

## 1.1 Responsibilities

The ITHF World Ranking website – [www.ithf.info/ranking](http://www.ithf.info/ranking) - is developed and maintained by Stanislav Kraus from the Czech Republic.

The ranking algorithm is developed by Martin Arenlind from Sweden. Martin is also handling the weekly updates of the ranking.

The design of the web page was done by Pascal Theriault from Canada.

Results are provided by lots of tournament organizers throughout the world. Thanks to all of you!

## 1.2 Brief description of the ranking

The basic idea of the rankings is:

- Tournaments involving higher ranked players shall be worth more points accordingly.
- In each tournament played, a certain number of points are awarded to each player.
- All players count their best 5 results.
- All tournaments from the last 2 years qualify fully in the rankings.
  - After 2 years, the value of the tournament are gradually decreased over time
  - After 6 years, the tournament is not counted anymore

Detailed description can be found in chapters 2, 3 and 4.

## 1.3 Contact persons

All nations that participate in the rankings shall assist by assigning one official contact person. The responsibility of that contact person is:

- To assist in determining which tournament shall be considered as a Level 3, Level 4, Level 5 and Level 6 tournaments (see chapter 2.2).
- To ensure that all tournaments from their country is added to the rankings.
- To actively attempt to contact local leagues that does not submit their results.

## 2 Tournaments

### 2.1 Which tournaments count?

All tournaments played during the last 6 years count in the ranking. All tournaments shall be sent to its country contact representative, and he will send them to the WR when all required information exists. Or you can report results to the WR directly by using web form at the world ranking web pages.

Tournaments must meet following rules:

- the tournament must be open for everybody who is interested to play at
- if using more basic groups the players must be seeded using a ranking (local, national or WR)
- the tournament cannot have ONLY playoff
- if the tournament has a playoff, the final ranking must be counted using the playoff results. The group placement is used for the players participating in playoff only to determine the final placement for those who were eliminated at the same round of playoff
- if the tournament doesn't meet the criteria above the WR level 6 will be used for this tournament, unless ITHF Executive Committee approved the tournament rules.

The following tournaments are not to be included in the rankings:

- tournaments that are not played on Stiga games
- tournaments where players consume alcohol before or during play
- tournaments deemed by the WR responsible to not be serious

## 2.2 Tournament levels

Tournaments are divided into the following seven levels:

### **Level 1**

World Championships  
Continental Championships

### **Level 2**

World Tour Big 6

### **Level 3**

World Tour  
Regional Championships (f.i. Baltic Championships)  
World Championships Special Classes (Junior, Women, Veteran)  
Continental Championships Special Classes (Junior, Women, Veteran)  
Continental Tours (North American Tour)  
National Championships (only if 1 tournament per season)

### **Level 4**

National Tours (\*maximum 13 per season per nation)  
Regional Tours (f.i. SLO-CRO Interliga)  
National Championships Special Classes (Junior, Women, Veteran)  
Regional Championships Special Classes (Junior, Women, Veteran)  
North American Local League Playoffs (f.i. Lemont THL Playoff)

\* If the number of these tournaments is higher than 13 during a season the WR Administrator will change the leveling of tournament number 14, 15 etc. which means that only the first 13 tournaments in the particular season will be level 4.

### **Level 5**

Sanctioned Local Leagues  
National Championships Special Classes (Kids, SuperVeterans, Rookies)

### **Level 6**

National Tour Special Classes (Junior, Women, Veteran)  
Local Leagues for Special Classes (Junior, Women, Veteran)  
Local Junior Tournaments  
All Other Tournaments

### **Level 10**

Team Competitions (these do not count in the rankings)

## 2.3 Tournaments with less than 4 players

Tournaments with less than 4 players do not give any ranking points.

## 2.4 Aging tournaments

When a tournament gets older than 2 years, its value is decreased by 20%. After this, its value decreases by another 20% every year. When it gets older than 6 years, it is not counted in the rankings anymore.

<b>Tournament age</b>	<b>Percentage of value counted</b>
< 1 year	100 %
< 2 year	100 %
< 3 year	80 %
< 4 year	60 %
< 5 year	40 %
< 6 year	20 %
> 6 year	0 %

## 2.5 Incomplete old tournaments

Unfortunately in some older tournaments not all places are known. These are handled so that only known places are calculated in the ranking.

If for example a tournament had 100 players, but only top 10 places are known, then the ranking sees it as a tournament with 10 players.

## 3 Points calculation

For each tournament, each position is given a value. The value for each position is calculated in 4 different ways, and then the maximum of the values are chosen.

### 3.1 Which players beaten-method

This is the most common method used.

Each player has a value. It is either his highest active point in the ranking, or 80 % of his highest point ever. Players are sorted after their value.

For each position, the points are calculated. For 1<sup>st</sup> place, the average values of the 4 best players from are used. For 45<sup>th</sup> place, the average values of players 45-48 from are used.

Each place has now a value. These values are multiplied by a tournament level coefficient, saying how important the tournament is. The coefficients are:

<b>Level</b>	<b>Coefficient</b>
1	0.96
2	0.92
3	0.89
4	0.83
5	0.60
6	0.40

### 3.2 Number of players beaten-method

This method is used for making sure that all players get points for playing.

Each player gets 1 point for each player you beat.  
Also, 1 extra point is given for participating.

### 3.3 Scaling method

This method is used to guarantee a certain point to the top places of a tournament.

The winner of a tournament gets a value dependant on the tournament value:

Level	Winner points
6	20
5	40
4	70
3	100
2	500
1 (for Continental Championships)	500
1 – (for World Championships)	1000

For each place, the point is divided by 2.

### 3.4 Linear method

This method is only used for level 1 tournaments.

1<sup>st</sup> place gets 1000 points in World Championships and 500 points in European Championships. Last place gets 1 point.

Other places get points that are linear between this. The value of a place is

$$1 + \frac{(\text{WinnerPoints} - 1) * (\text{NbrOfPlayers} - \text{Place})}{\text{NbrOfPlayers} - 1}$$

### 3.5 Summing it up

When all 4 methods have been used, the maximum value is used. Also, an additional 10 points are given to the winner of the tournament, to give some extra value to winning a tournament.

### 3.6 Counting example

As example, let's consider a World Championships with only 7 players, with values 1000, 990, 950, 900, 890, 0, 0

Place	WhichPlayerBeaten	NbrOfBeaten	Scalar	Linear	Max	Additional	Result
1	922	7	1000	1000	1000	10	1010
2	896	6	500	834	896		896
3	658	5	250	667	667		667
4	430	4	125	501	501		501
5	285	3	63	334	334		334
6	0	2	31	168	168		168
7	0	1	1	1	1		1

## 4 Ranking lists

### 4.1 General

All players having participated in a reported tournament during the last 6 years are included to the rankings.

Players count their best 5 tournaments. Meaning the 5 tournaments where they have the most active points. See chapter 2.4 for info about which points that are active.

Those 5 values are added, and the sum is the players ranking points. The rankings on the website are sorted in order of the ranking points, the higher the points, the better the ranking.

### 4.2 Open ranking

This ranking is the main ranking list. All ranked players are in this list.

### 4.3 Women ranking

The women rankings include all players, who have been reported as female. If someone is missing from the rankings, or if someone is ranked that shouldn't be, please email the information to [wr.update@ithf.info](mailto:wr.update@ithf.info)

### 4.4 Junior ranking

The junior rankings for a season include all players, who turn 18 or less the same year as the season end. As example, for season 2013/2014 all players born 1996 or later are included. If anyone is missing, or anyone should not be there, please email the information to [wr.update@ithf.info](mailto:wr.update@ithf.info)

### 4.5 Veteran ranking

The veteran rankings for a season include all players, who turn 40 or more the same year as the season end. As example, for season 2013/2014 all players born 1974 or later are included. If anyone is missing, or anyone should not be there, please email the information to [wr.update@ithf.info](mailto:wr.update@ithf.info)

## 4.6 Club rankings

For each club in the rankings, the best 4 players (ranking wise) have been considered as a team. 4 were chosen since there are 4 players in each team in most club team championships. The 4 players total ranking points are added together, and the total value is the clubs ranking points. The ranking is sorted according to this.

## 4.7 Nations ranking

If you hold multiple nationalities, you can yourself decide which country to play for. Email [wr.update@ithf.info](mailto:wr.update@ithf.info) if you want to change your or anyone else's nationality.

For each nation in the rankings, the best 5 players (ranking wise) have been considered as a national team. 5 were chosen since there are 5 players in each team in world team championships. The 5 players total ranking points are added together, and the total value is the nations ranking points. The ranking is sorted according to this.

## 4.8 Women nations ranking

For each nation in the rankings, the best 3 women players (ranking wise) have been considered as a national team. 3 were chosen since there are 3 players in each team in world women team championships. The 3 players total ranking points are added together, and the total value is the nation's ranking points. The ranking is sorted according to this.

## 4.9 Junior nations ranking

For each nation in the rankings, the best 3 junior players (ranking wise) have been considered as a national team. 3 were chosen since there are 3 players in each team in world junior team championships. The 3 players total ranking points are added together, and the total value is the nation's ranking points. The ranking is sorted according to this.

## 4.10 Veteran nations ranking

For each nation in the rankings, the best 3 veteran players (ranking wise) have been considered as a national team. 3 were chosen since there are 3 players in each team in world veteran team championships. The 3 players total ranking points are added together, and the total value is the nation's ranking points. The ranking is sorted according to this.

## 5 Guideline for country responsible

### 5.1 How shall a tournament be reported

Tournaments shall be reported either by using special WR reporting tool, which can be given by WR administrator, or here:

<http://www.ithf.info/stiga/ithf/ranking/enterres.aspx>

### 5.2 Correct erroneous data in the rankings

All data in the rankings is of course not always correct. Whenever something can be corrected, just send email about it to [wr.update@ithf.info](mailto:wr.update@ithf.info)! For example, if someone plays for another club than is listed. Or someone is club-less, but you have knowledge of where they live. Or if you obtain knowledge of someone's birth year -- please forward.

### 5.3 Get all tournaments reported

In order to make the ITHF World Ranking as detailed as possible ITHF wants as many people and table hockey communities as possible to report tournaments. Another reason is that it would be easier for a table hockey player to find a new table hockey environment if he/she is moving to another town or another country. Therefore ITHF is asking every table hockey organizer to report your tournaments to ITHF.

### 5.4 Calendar of events

On the WR website [www.ithf.info/ranking](http://www.ithf.info/ranking), there is also a Calendar of events.

All Level 1 - 4 tournaments should be included in this list.

Assistance in compiling this list would be appreciated.