TSR Ranking methodology 2021

Gender equal	Transparent	For all
Top women, men and mixed category team members get the same amount of points	The maths are not that easy but you get a chance to read how it works	Whether you are first or last, you will get points to brag about

Step 1

Races are not treated equally.

Each gets an initial amount of points R1.

R1 = 500 for Ötillö Worlds and R1 = 400 for all other races.

Step 2

For each race, we then look at the competitiveness and the number of participants of the previous year.

To account for the competitiveness of a race, we take the percentage L (%) of overall finishers who crossed the line in less than the winning time plus 20%.

Only races with more than 50 finishers the previous year will get competitiveness points. If the number is below 50, R2 = 0

R2 = L x 8 rounded up and capped at 200.

To account for the attendance of a race, we take the number of finishers N.

R3 = N x 2/3 rounded up and capped at 200.

Step 3

We sum up R1, R2 and R3 to get the number of each category winner's points.

Categories are Women, Men or Mixed.

Example:

R1 for RaceX is 400.

In 2020, out of 329 finishers, 17 crossed the line in less than the winning time (02:14:14) plus 20% (02:41:05). That represents a percentage P of 5,2%.

$$R2 = P \times 8 = 42 \text{ points (rounded up)}$$

And the number of finishers was 329 therefore $R3 = 329 \times 2/3 = 220$ greater than 200, so we take $R3 = 200$.

The winners of each category at RaceX get:
$$R = R1 + R2 + R3 = 400 + 42 + 200 = 642 \text{ points.}$$

Easy so far?

Step 4

Then take a breath because there is some more maths coming…

The points are then distributed against a cubic curve (x^2 function) so that the winners of each category get R points and the last finishers of each category get 0.

Let us take an example: in 2020, R was 620 for RaceY. And there was 25 finishers in the women category. Below is the parabolic distribution of points. Ranking in grey corresponds to points in white. (the 1st gets 620 points, the 12th 182 points, etc.)

1	620		11	211		21	18
2	570		12	182		22	10
3	521		13	155		23	5
4	475		14	131		24	2
5	431		15	108		25	0
6	389		16	88			
7	349		17	69			
8	312		18	53			
9	276		19	39			
10	243		20	27			

More details on the maths? Please send an [email](mailto:).

Step 5

Finally, to calculate the number of points during the season, you add up your 5 best results for individuals and your 4 best results for teams.

Race organizers are invited to send an email as soon as results are available:

> Category > Team member 1 first name > Team member 1 last name > Team member 2 first name > Team member 2 lat name > Position in the category