GENERAL PERFORMANCE INDEX (GPI)
JANUARY, 2018

Date of Report: February 3rd, 2018

Performance of WTA tennis players during January 2018 on all surfaces.

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GENERAL PERFORMANCE INDEX (GPI) OF JANUARY 2018 - WTA TOP 30

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By *Rubén A. Báez*[2]

General Performance Index (GPI): *"It is an index that measures the performance that a tennis player has had in a period of time."*

This index considers for its calculation several parameters such as: the number of matches played and won, serves, points won with the 1st and 2nd serves, returns, break points (saved and won) and tiebreaks.

The **GPI** is calculated monthly or annually and for each kind of surface (Hard, clay and grass) too. The database for its calculation starts from May 2012 to the present. The main idea is to be able to compare the performance of the tennis players in a homogeneous way, that is, in a period of analysis "t", compare the performance of the tennis player A versus the performance of the tennis player B and determine which of the two tennis players had a better performance in the period "t" (month, year, etc.). The general representation of the formula is:

$$GPI = f\left[P_i, t, s\,(H, C, G)\right]$$

being:
P_i = parameters, for i between 1 and n
t = analysis period,
s = type of surface (H: hard, C: clay or G: grass). If this parameter does not appear in the formula, it is because it contains "all" surfaces.

Another way to present the **GPI** would be:

$$\mathbf{GPI} = f\left[P_i, t\right] \;\blacktriangleright\; \text{GPI Total surfaces}$$

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[1] Report elaboration based on data from official Websites:
www.AustralianOpen.com
www.WTAtennis.com

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$$\textbf{GPI-H} = f\left[Pi,\ t,\ s\ (H)\right] \rightarrow \text{GPI of Hard surfaces}$$
$$\textbf{GPI-C} = f\left[Pi,\ t,\ s\ (C)\right] \rightarrow \text{GPI of Clay surfaces}$$
$$\textbf{GPI-G} = f\left[Pi,\ t,\ s\ (G)\right] \rightarrow \text{GPI of Grass surfaces}$$

The index has been tested and accurately exposes the order of the players performance. It is for that reason that we have put in the laborious work of calculating the **GPI** from May 2012 to January 2018. We will continue calculating it in the future and publishing it from now.

These indexes are designed for that analysts, coaches and tennis players can analyze them and draw out their own conclusions. You will notice that many times there are players who have better **GPI** than other players with better ranking. I have tried to find explanations for this and, in my opinion, it is due, among other things, that many Top players win games without playing well, with poor performance regard the parameters, but win anyways (For example, playing well the important points). Of course, there are other reasons that explain these aspects and that are implicit in the statistics that are used for the **GPI**.

For the annual and monthly determination of the **GPI**, all the players who participated in the season have been taken, regardless only the Top 30 of the WTA ranking is shown in this report.

The used statistics to calculate the annual *General Performance Index* (**GPI**) come from:

    a) WTA Premier Mandatory, Premier, International, WTA Finals y 125K Series Tournaments.
    b) Australian Open, Roland Garros, Wimbledon, US Open.
    c) Fed Cup.

The Olympic Games are included in the annual **GPIs** for the 2012 and 2016 seasons (not shown in this report).

GENERAL PERFORMACE INDEX (GPI) – TOP 30
– JANUARY 2018 -

Order	Name	Surname	Country	Ranking	M. Played	GPI ↓
1	Caroline	Wozniacki	Denmark	1	12	218,10
2	Simona	Halep	Romania	2	12	214,35
3	Angelique	Kerber	Germany	9	11	200,14
4	Elina	Svitolina	Ukraine	3	10	188,37
5	Elise	Mertens	Belgium	20	10	176,67
6	Barbora	Strycova	Czech Republic	24	10	161,37
7	Agnieszka	Radwanska	Poland	33	9	156,17
8	Julia	Goerges	Germany	12	8	153,21
9	Su-Wei	Hsieh	Chinese Taipei	71	8	148,81
10	Ashleigh	Barty	Australia	16	9	146,24
11	Alizé	Cornet	France	38	9	142,78
12	Lesia	Tsurenko	Ukraine	40	8	141,68
13	Aliaksandra	Sasnovich	Belarus	46	8	141,20
14	Karolina	Pliskova	Czech Republic	5	8	134,11
15	Katerina	Siniakova	Czech Republic	52	9	131,18
16	Irina-Camelia	Begu	Romania	37	8	130,65
17	Sachia	Vickery	United States	104	7	125,83
18	Maria	Sharapova	Russia	41	7	122,99
19	Magda	Linette	Poland	60	7	120,57
20	Yulia	Putintseva	Kazakhstan	51	7	120,29
21	Aryna	Sabalenka	Belarus	65	7	120,09
22	Mihaela	Buzarnescu	Romania	43	7	119,71
23	Camila	Giorgi	Italy	63	7	118,53
24	Timea	Babos	Hungary	45	7	110,97
25	Ajla	Tomljanovic	Australia	100	7	108,37
26	Shuai	Zhang	China	34	7	105,93
27	Carla	Suarez Navarro	Spain	32	6	105,60
28	Anastasija	Sevastova	Latvia	15	7	101,34
29	Petra	Martic	Croatia	58	6	99,72
30	Monica	Niculescu	Romania	99	6	99,71