



USGA
FOR THE GOOD OF THE GAME.

#### Quick review of our last call:

• Strokes Gained Putting is the best stat that measures putting performance! The purpose of today's call is to help our Strokes Gained Putting get better. **Higher is better in SGP, not lower. You want a positive number, not a negative number!** 



## What does it take to putt great?

#### THREE BIG THINGS

- 1. Need to hit your line (stroke it well)
- 2. Need to read greens extremely well
- 3. Need to putt with a speed that leads to putting well



#### Three Reasons to Have Effective Speed

#### 1. Avoid 3 Putting

-On the PGA Tour since 1990, only 7 players have finished a full season with as many or more 3 putts as rounds played. Meaning, 99.9% of the players averaged less than one three putt per round for the season.

- 2. Helps you make putts that break
- 3. The hole is effectively bigger when the ball is moving slower



## Why Measure Speed Performance?

- Measuring speed on the greens transformed the way many of the players we have coached putted.
- Most golfers train their stroke but rarely train their speed control.
- We have found that when golfers prioritize having great speed, they
  get better at it in a short period of time.
- Some people consistently hit their putts too hard and don't understand why this is a problem. They are told that leaving a putt short is horrible. Once they understand how this is hurting their score and start measuring their speed performance, they putt better!
- "That which is measured improves. That which is measured and reported improves exponentially." Karl Pearson

## Speed Ratio

A statistic designed to measure putting speed performance.



#### How to calculate the Speed Ratio

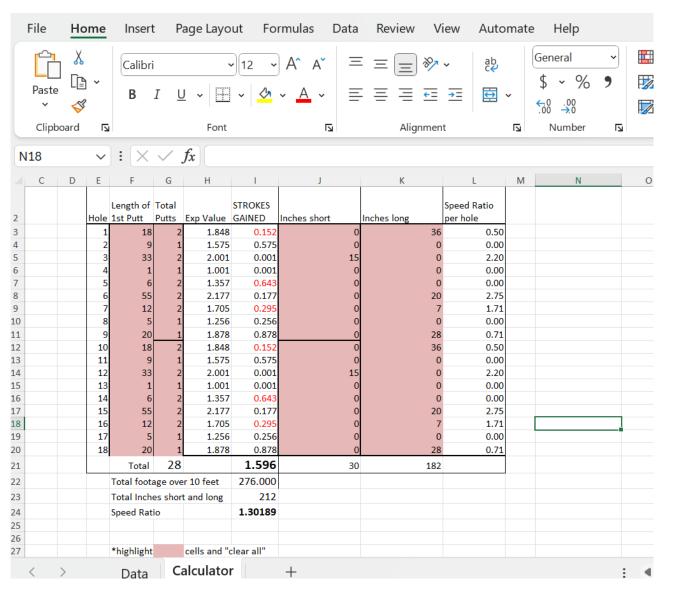
- 1. For every first putt of 10 feet or more during a real round or a Simulated Putting Round on the practice green, record the number of inches short or long the first putt ends up (if the first putt goes in, estimate the inches it would have gone long of the hole).
- 2. Upon completion of the round, add up the footage of all first putts that were 10 feet or more.
- 3. You will have two different numbers at this point: the **total footage of first putts**10 feet or more, and the combined inches short or long of the first putts on those 10+ footers.
- 4. Divide the total footage of the putts 10 feet or more by the combined inches short and long: For example, if there are 300 feet of putts 10 feet or more, and there are 250 inches of short and long on those 10+ footers.....300 divided by 250 = Special Ratio of 1.2

# Calculating SGP and Speed Ratio for a normal round of golf...

1. 1	18 ft / 2 putts	+36	10.	18/2	+36
2.	9/1		11.	9/1	
3.	33/2	-15	12.	33/2	-15
4.	1/1		13.	1/1	
5.	6/2		14.	6/2	
6.	55/2	+20	15.	55/2	+20
7.	12/2	+7	16.	12/2	+7
8.	5/1		17.	5/1	
9.	20/1	+28	18.	20/1	+28



# Strokes Gained Putting and Speed Ratio Calculator





#### **Simulated Putting Round**

• Instead of taking 4 hours to play a round of golf to test your putting, we came up with a simulated putting round to be done on a practice putting green. We did this by identifying the average 18 starting putts in feet our players had in every round they played during one of our seasons. These are those lengths:

2, 2, 3, 4, 5, 6, 8, 9, 11, 14, 16, 18, 21, 24, 28, 33, 40, 52

- The PGA Tour average to hole out these 18 putts is: 29
  - In other words, if all 200 PGA Tour players putted from these distances, they would average 29 putts to hole out
  - A score of 29 is a SGP of 0.00, a score of 28 is +1.0 SGP, and a score of 30 is -1.0 SGP.
  - The best putter on the PGA Tour would average no better than 28, and the worst putter on the PGA Tour would average at worst 30.0 or a bit higher.

## **Speed Ratio and the Simulated Putting**Round

• For the Simulated Putting Round, you will hit the following putts in random order, and you will hole out each putt. You will keep track of how many putts it takes to hole out each putt, and you will record the number of inches short or long for the following putts in red:

2, 2, 3, 4, 5, 6, 8, 9, 11, 14, 16, 18, 21, 24, 28, 33, 40, 52

- The sum of the putts over 10 feet in the Simulated Round amounts to 257 feet. You will divide 257 by the total inches short and long for those 10 first putts to get your Speed Ratio.
- The data you end up with after a Simulated Putting Round is the following: you end up with a
  total number of putts that can then be compared in a Strokes Gained world to the PGA Tour,
  and you get a Speed Ratio to describe your speed performance.



## Simulated Putting Round Example on a Standard Scorecard

U.S. OPEN	402	507	387	529	576	242	424	502	191	3760	617	483	484	385	473	202	528	205	451	3828	7588
PAR	4	4	4	4	5	3	4	4	3	35	5	4	4	4	4	3	4	3	1		
HOLE	1	2	3	4	5	6	7	8	9	100	10	11	12	13	14	15	16	17	18	-	TOTAL
BLUE	393	439	350	474	508	203	393	469	174	3403	580	455	419	375	433	183	513	185	415	3558	6961
WHITE	376	411	330	434	462	178	385	440	148	3164	455	375	360	358	419	170	478	162	366	3143	6307
HDCP	11	3	9	1	15	5	7	17	13		18	8	10	6	2	12	16	14	4		
PAR	4	4	4	4	5	3	4	5	3	36	5	4	4	4	4	3	5	3	4	36	72
	2	2	3	4	5	6	8	9	11		14	16	18	21	24	28	33	40	52		
# Putts	1	1	1	1	1	2	2	1	12		2	2	2	1	2	2	2	2	2	29	
								0.000	+12		+20	-12	0	+28	+15	-10	+18	+38	-24		177
	4	6 5	ho	+	in	he	5														
	13	1	10	19	in	ch	es									1	77	2	5	7	-1.45
GREEN	366	390	309	326	432	170	313	419	140	2865	438	358	336	327	347	153	437	152	358	2906	5771
RED	340	342	283	316	417	116	306	400	124	2644	421	320	293	278	337	124	411	145	329	2658	5302
HOCF	9	5	3	1	11	17	13	15	7		10	14	12	6	8	18	4	16	2		

- Write length of putts down on top row.
- 2. Input number of putts taken to hole out for each putt on the second row.
- 3. For every putt of 10 feet or more, record inches short or long of first putt.
- 4. Hit the putts in a random order.
- 5. Add total strokes upon completion.
- 6. Add total inches upon completion and then divide 257 by the inches total to get the Speed Ratio.



## Speed Ratio standards for on-course rounds and Simulated Rounds (higher is better!)

- 2019 USC Trojans Men on course average Speed Ratio: 1.29
- 2020 USC Trojans Men on course average Speed Ratio: 1.36
- Best On Course Speed Ratio for a USC Men's season: **1.53** (Justin Suh)
- The Simulated Round scores should be better because the practice greens and the putts we choose tend to make the Speed Ratio better on average than the on-course measurements. The average Speed Ratio for all Simulated Putting Rounds done at USC Men's Golf from 2016-2020 was 1.5.

#### **Important Information**

- 1. How do you measure the length of your putts when you play? You will need to start pacing them. Pacing after your first putt is best.
- 2. When you start to measure speed results, remember that your putter is around 32-35 inches long. Use that as a guide when measuring inches short or long.
- 3. Remember, we are measuring speed. If you hit a 40 foot putt perfectly hole high but 3 feet to the right, the speed measurement would be 0, not 36.
- 4. We like to keep track of the inches in categories of short and long. Although, when adding the inches for Speed Ratio purposes, pay no attention to whether it was short or long. We like to know this short/long info to identify tendencies.
- 5. If a putt is holed from 10 feet or more, please estimate the number of inches it would have gone long for the Speed Ratio calculation.
- 6. Remember, the Speed Ratio is the following calculation: Total footage of all first putts 10 feet or more DIVIDED by total combined inches short or long of those first putts. The higher the Speed Ratio the better!



#### Measured AND Reported... On Course Rounds

À	A	В	С	D	E	F	G	Н	1	J	K	L	М	N	0	P
1	Scarlett S															
2																
3	On Course R	lound	<b>Putting Spread</b>	Isheet												
4																
5	Date		Score vs Par		SGP		Speed Ratio		Short Inches	Long Inches		Three Putts		Made Putts 10 ft or More		
18	5/30/2024		5		0.927		2.48		61	76		1		4		
19	5/31/2024		2		-0.014		2.2		66	102		1		3		
20	6/4/2024		-2		1.462		2.04		126	76		0		2		
21	6/4/2024		2		-2.017		1.71		111	79		1		1		
22	6/5/2024		E		-1.541		1.63		140	55		1		2		
23	6/12/2024		-2		-0.412		2.571		1	93		0		2		
24	6/13/2024		-1		0.649		2.068		0	131		1		2		
25	6/14/2024		-2		2.231		2.743		16	144		0		3		
26	6/15/2024		-1		0.687		2.084		39	80		0		1		
27	6/18/2024		-1		0.048		1.273		148	130		1		1		
28	6/19/2024		6		-1.109		1.174		219	278		1		0		
29	6/20/2024		-4		-1.067		1.88		84	76		1		1		



## Measured AND Reported... Simulated Putting Rounds

	A B	С	D E	F	G	Н	1	J	K	L	M	N
1	Angela Z	2,2,3,4,5,6,	8,9,11,14,16,18,	21,24,28,33,	40,52							
2												
3	Simulated Putting	Round Spreadsh	eet									
4												
5	Date	Score	SGF	)	<b>Speed Ratio</b>		Short Inches	Long Inches		Three Putts		Made Putts 10 Feet or More
6	5/10/2024	29		0	0.87		3	291		1		
7	16-May	29		0	1.78		22	122		1		
8	5/21/2024	30		-1	2.54		37	64		0		
9	5/23/2024	27		2	1.15		87	137		2		
10	5/25/2024	30		-1	0.87		96	201		2		
11	5/26/2024	30		-1	1.8		49	94		0		
12	5/28/2024	29		0	2.36		51	58		0		
13	5/31/2024	31		-2	1.6		5	156		1		
14	6/1/2024	32		-3	0.94		106	167		1		
15	6/4/2024	27		2	2.14		40	80		0		
16	6/11/2024	29		0	1.25		98	107		0		
17	6/14/2024	29		0	2.12		80	41		0		
18	6/26/2024	29		0	1.36		115	74		0		
19												



Average Speed
Ratios for Best
Putting
Rounds and
Worst Putting
Rounds

Ruffels		Reiter	
Top 25%	1.59	Top 25%	1.52
Bottom 25%	1.03	Bottom 25%	1.23
Nam		Tanabe	
Top 25%	1.28	Top 25%	1.09
Bottom 25%	1.05	Bottom 25%	1.17
Muzi		Suh	
Top 25%	1.32	Top 25%	1.70
Bottom 25%	0.98	Bottom 25%	1.15
Manthena		C-Smith	
Top 25%	1.04	Top 25%	1.33
Bottom 25%	0.90	Bottom 25%	0.90
Leong		Suppa	
Top 25%	1.28	Top 25%	1.48
Bottom 25%	1.26	Bottom 25%	1.33
Garvey		Kim	
Top 25%	1.50	Top 25%	1.21
Bottom 25%	1.08	Bottom 25%	1.07
Corpuz		Onishi	
Top 25%	1.42	Top 25%	1.34
Bottom 25%	0.98	Bottom 25%	1.20
Chang		Henry	
Top 25%	1.14	Top 25%	1.19
Bottom 25%	0.95	Bottom 25%	1.09
Carr		Slater	
Top 25%	1.18	Top 25%	1.05
Bottom 25%	0.83	Bottom 25%	1.17
Abdulghany			
Top 25%	1.46		
Bottom 25%	1.19		
USC Women		USC Men	
Top 25%	1.32	Top 25%	1.32
Bottom 25%	1.03	Bottom 25%	1.15

#### **Last Word: Our Goals**

Let's strive to get our Speed Ratio over 1.2 for real rounds and 1.40 for Simulated Rounds.

#### Next:

- You will be emailed the SGP and Speed Ratio Calculator.
- You will be emailed this Power Point presentation.
- You will be emailed a link to the video of this webinar.

