

# milestonepod

## DATA 101 – THE METRICS. For runners who want to see the basics.



**Foot strike** is where your foot first makes contact with the ground. Sometimes, *heel strike* is considered bad form, but in reality, it's more important where your foot is in relation to your body when your weight is loaded. Focus on landing with your foot under your body and with less leg extension, and you should feel the results of a softer impact.

**Cadence** is the average number of times your foot hits the ground in one minute. A low cadence (less than 160) is typically seen in runners who over-stride. A high cadence is associated with less force on your hips and knees and can help with injury prevention.

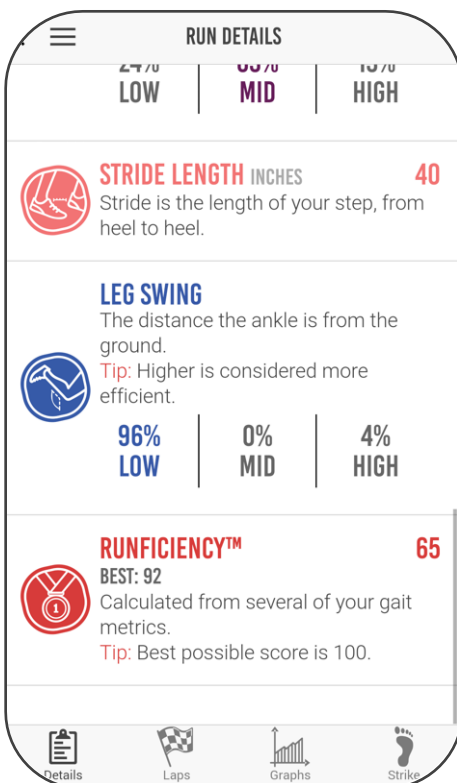
**Ground contact** is the average amount of time your foot spends on the ground. The less time your foot is on the ground, the more the impact on your body is reduced and the faster you will run.

**Rate of impact** is the amount of time your body has to deal with the landing force. A *high* rate of impact means your body does not have enough time to spread the force out evenly which can lead to injury. A *low* rate of impact means your body has enough time to spread the force out evenly. A low rate of impact is easier on your body and can help prevent injury.

As your **stride length** increases, your speed increases. However, one of the most common mistakes novice runners make is over-striding. The most efficient stride length is what comes naturally and feels the most comfortable.

**Leg swing** is how high you get your foot off the ground and towards your butt following push-off. A higher leg swing means you are keeping your body movement closer to your center of gravity. The result is less work and less energy loss.

**Runficiency** is a quality of run **score** incorporating cadence, stride length, leg angle, ground contact and pace consistency. The global average is 73.



Note: Walking sessions will not include rate of impact, foot strike or leg swing.



## DATA 201 - THE GRAPHS. For runners who want to dig a little deeper.

There are two sets of graphs available to show your gait and performance patterns. One set shows **single runs** and one set shows **averages across multiple runs**.

### SINGLE RUN GRAPHS

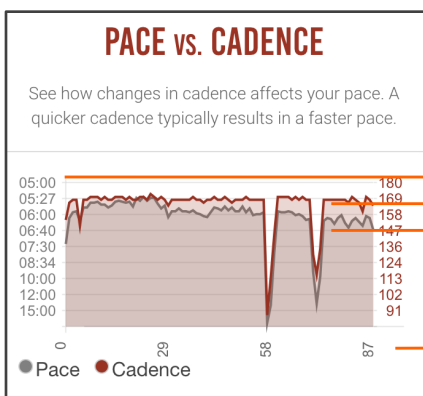
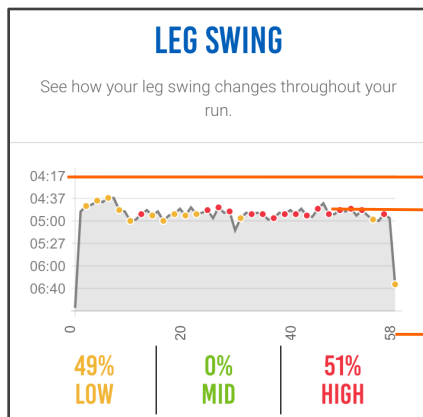
Available metrics:

- foot strike
- rate of impact
- leg swing (example shown)

Available comparisons:

- pace vs. cadence (example shown)
- pace vs. stride length
- pace vs. ground contact
- pace vs. Runficiency Score

Find them on the **RUN DETAILS** screen:



### MULTIPLE RUN GRAPHS

Available metrics:

- foot strike
- rate of impact (example shown)
- leg swing
- pace (example shown)
- cadence
- Runficiency Score

Find them on the **RUN LOG** screen:

