Wingspan on Defense

Does having a longer proportional wingspan automatically translate to better defense in the NBA?

Hypothesis

Definitely to an extent. Having a longer proportional wing span will help with containment as well as basic statistics but I think there is a cut off point where it might become more of a negative.

Defence requires intelligence, the will to hustle, and work. A player's stature will only take them so far, they need to want to play hard.

Eye Test and Field Test Say Yes

Just being a consistent player or watcher, I know that scoring on another player is much more difficult when the defender is longer than myself.

Longer arms means more they can give players more space while still effectively contesting shot attempts, it means they have longer reach for rebounds, and it means wider base for ball handlers to get around.

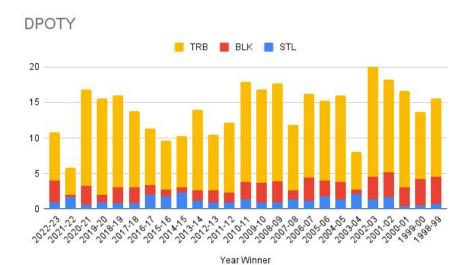
Looking at the Big 5 numbers

(Points, Rebounds, Assists, Steals, Blocks)

Box score watchers will note that the longer the wingspan, the higher the numbers look on paper.

It is easier for players gifted with said wingspan to deflect passes and shots to create steals and blocks.

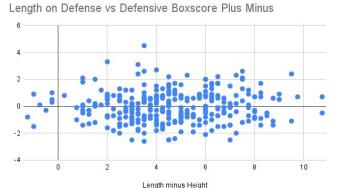
And the award voters seem to agree, as many of the past Defensive Player of the Year award winners fill the box score with rebounds, steals, and blocks.



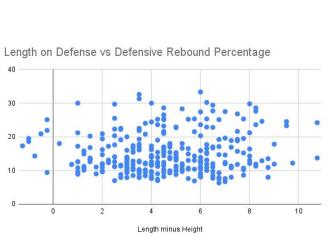
Going deeper with Advanced Stats

NBA also has a few statistics that are not looked at by the causal fan. Here are a few that we will be using to determine better defensive play

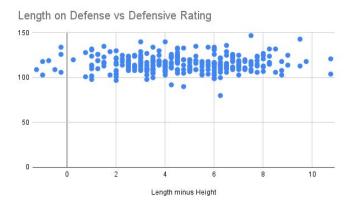
- Defensive box score Plus/Minus measures the difference per 100 possessions in points allowed with a player on the court versus off the court
- Defensive rebound percentage An estimate of the percentage of available defensive rebounds a player grabbed while they were on the floor
- Defensive win shares An estimate of the number of wins contributed by a player due to defense
- Defensive rating Defensive Player Rating =
 (Players Steals*Blocks) + Opponents
 Differential= 1/5 of possessions Times blown
 by + Deflections * OAPDW(Official Adjusted
 Players Defensive Withstand)

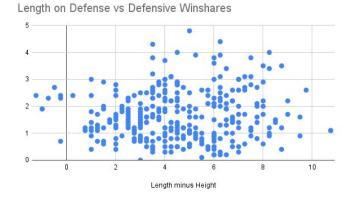


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The length of the wingspan, no matter how much larger than the players' height, does not seem to correlate with any of the four advanced defensive stats.





Conclusion

There is a clear advantage to having a larger wingspan in basketball, however it is not going to replace willingness, and basketball IQ as the main reasons for strong Defense.

Intelligence and hustle will remain as the advantages for excelled defensive play.

References

- NBA.com
- Basketball-Reference.com
- Statmuse.com