



# Dell Chromebook 5190

Report produced November, 2019

From design to end-of-life and everything in between, we work to improve the environmental impact of the products you purchase. As part of that process, we estimate the specific impacts throughout the lifecycle. This includes the contributions from materials, manufacturing, distribution, use and end-of-life management.

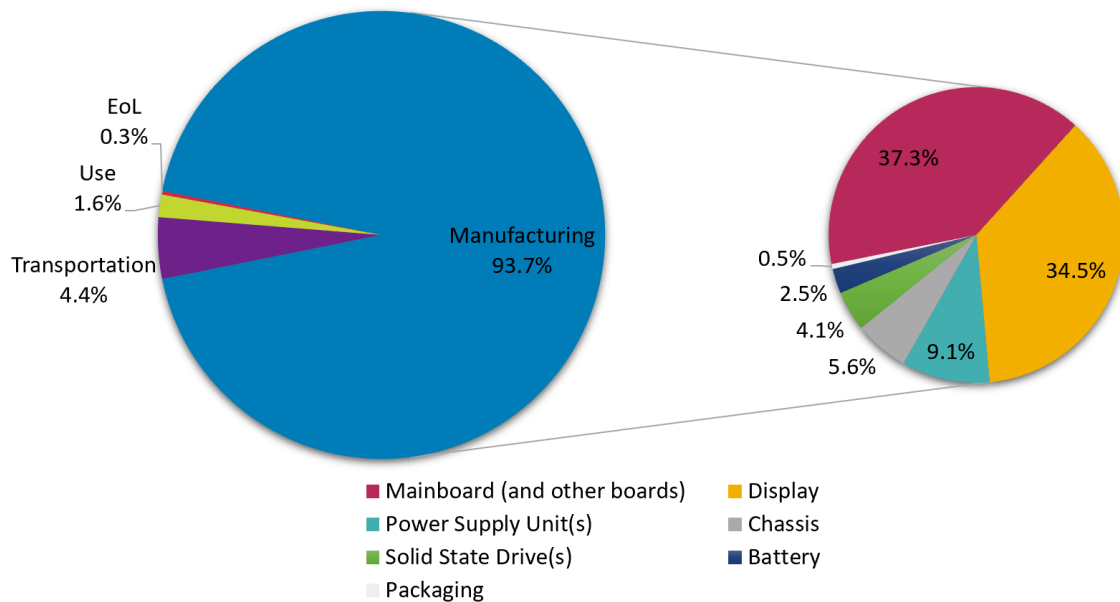


This product's estimated carbon footprint:

# 220 kgCO<sub>2</sub>e +/- 49 kgCO<sub>2</sub>e

Estimated impact by lifecycle stage with breakout for manufacturing by component:

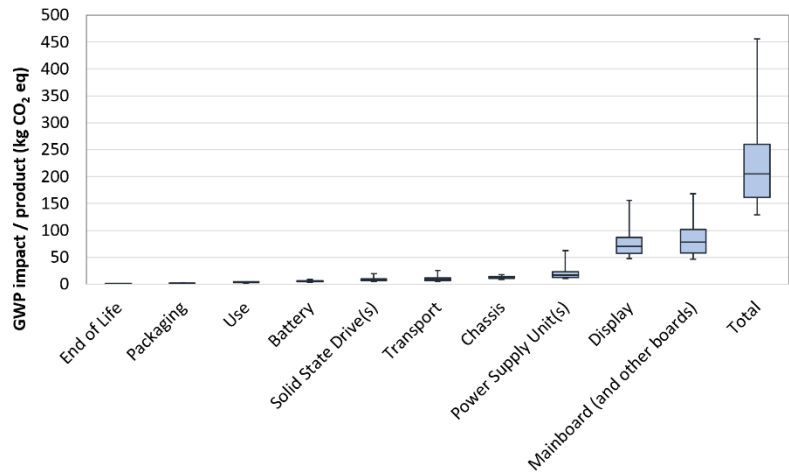
Dell uses PAIA (Product Attribute to Impact Algorithm) to perform product carbon footprints. PAIA is a streamlined LCA tool developed by [MIT's Materials System Laboratory](#). It takes into consideration important attributes of the product which can be correlated to activities in order to calculate the product carbon footprint.





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As part of our commitment to transparency, the chart to the right demonstrates the degree of uncertainty that exists within the PAIA model for product carbon footprinting, based on assumptions we have made for select variables.



Assumptions for calculating product carbon footprint:

<b>Product Weight</b>	1.3 kg	<b>Screen Size</b>	11.6"	<b>Assembly Location</b>	China
<b>Product Lifetime</b>	4 years	<b>Use Location</b>	EU	<b>Energy Demand (Yearly TEC)</b>	1.71 kWh

# 220 kgCO<sub>2</sub>e



**1 of these products...** has a footprint approx. equivalent to **driving 539 miles** in a passenger car.



**10 of these products...** have a footprint approx. equal to what **2.9 acres of US forests** can absorb in a year.



**100 of these products...** have a footprint about the same as the annual average carbon footprint of **4 people**.

To help our customers and other stakeholders contextualize product carbon footprint values, we provide these approximate equivalencies. Please remember these are estimates and should not be used for emission inventory or formal carbon footprinting exercises.

† Disclaimer: This PCF was calculated using the PAIA model, version 1.2.5, 2019, copyright by the ICT Benchmarking collaboration, which includes the Massachusetts Institute of Technology's Materials Systems Laboratory and partners. Results shown here are subject to change as the tool is updated.

Calculations are based on the following methodologies: 2.45 miles driven per 1 kg co<sub>2</sub>e (source: [U.S. EPA](#)); approx. 850 kg co<sub>2</sub>e absorbed per acre of forests over a year (source: [U.S. EPA](#)); global personal carbon footprint estimated at 5 MTco<sub>2</sub>e per person (source: [World Bank](#)).