

Carbon Footprinting Emissions Report

Quorn Foods take seriously the responsibility to ensure we are managing our own impacts on the environment. That is why in 2012 we began calculating the carbon footprints for our products in line with internationally recognised standards so we can understand their impacts and set goals to reduce these. Using a science led approach to environmental research and continuous analysis of our entire supply chain, we are committed to ambitious targets and look forward to tracking our continuous improvement.

Our products are assessed against:

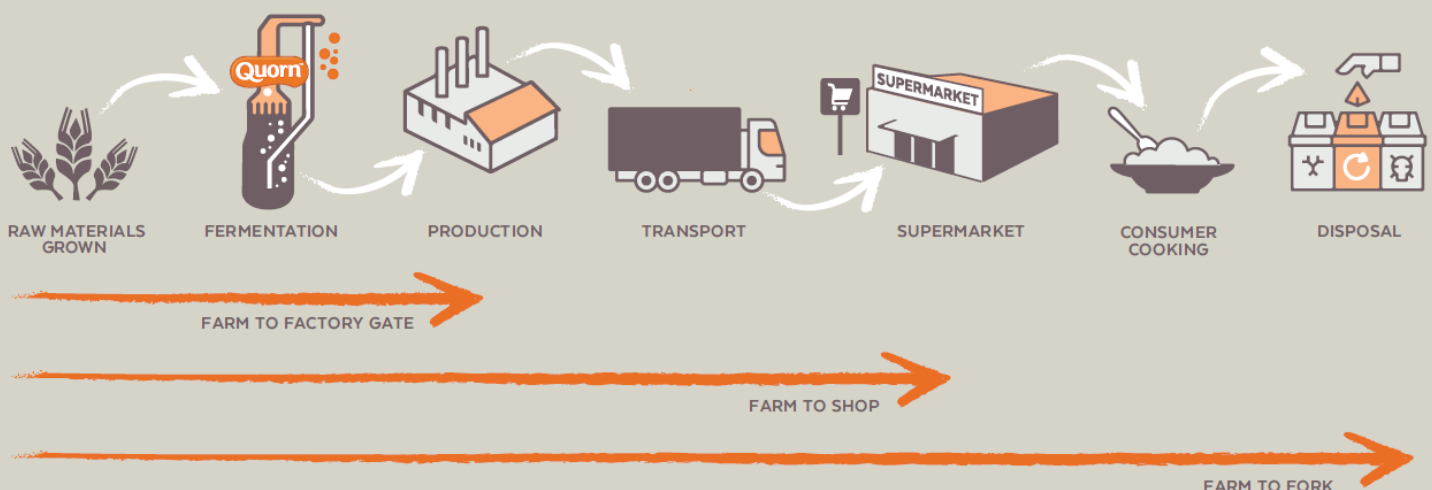
- PAS 2050:2011
- Greenhouse Gas Protocol
- Product Carbon Footprint Protocol (parts 1 and 2) and
- The certification requirements of the Footprint Expert™ Guide



The values shown in the Footprinting Results represent the carbon footprints of our products using 'Farm to Factory Gate', 'Farm to Shop' and 'Farm to Fork' boundaries. All carbon footprints are third-party accredited and certified by the Carbon Trust.

'Farm to Factory Gate' accounts for all greenhouse gases emitted from farming the ingredients to extracting raw materials, manufacturing and packing the product, as well as all energy and transportation used throughout. 'Farm to Shop' adds the additional transport, storage and distribution to the supermarket. Whereas 'Farm to Fork' considers emissions right up until the end of the product's life, including storage, cooking of the Quorn product and finally disposal of the packaging.

All carbon footprints are measured in kgCO₂e (kg of carbon dioxide equivalent), which measures all greenhouse gases in one unit relative to the global warming potential of carbon dioxide.





Footprinting Results

The tables below reveal the 2021 and 2023 carbon footprints for a range of our products.

Mycoprotein

kgCO₂e / kg
(Farm to Factory Gate)

| | |
|---------------------|-----|
| Chilled mycoprotein | 0.5 |
| Frozen mycoprotein | 0.9 |

UK

Frozen Products

| | Pack Weight (g) | Serving Size (g) | Farm to Factory Gate | | Farm to Shop | | Farm to Fork | |
|---------------------------|-----------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving |
| Mince | 300 | 75 | 1.26 | 0.09 | 1.89 | 0.14 | 2.06 | 0.15 |
| Mince | 500 | 75 | 1.35 | 0.10 | 2.00 | 0.15 | 2.13 | 0.16 |
| Pieces | 300 | 75 | 1.21 | 0.09 | 1.84 | 0.14 | 2.02 | 0.15 |
| Pieces | 500 | 75 | 1.49 | 0.11 | 2.15 | 0.16 | 2.27 | 0.17 |
| Steak Strips | 300 | 75 | 1.61 | 0.12 | 2.21 | 0.17 | 2.40 | 0.18 |
| Vegan Pieces | 280 | 70 | 1.50 | 0.10 | 2.16 | 0.15 | 2.29 | 0.16 |
| Balls | 300 | 75 | 1.66 | 0.12 | 2.30 | 0.17 | 2.50 | 0.19 |
| Crispy Nuggets | 300 | 80 | 1.70 | 0.14 | 2.41 | 0.19 | 4.44 | 0.36 |
| Crispy Nuggets | 476 | 80 | 1.45 | 0.12 | 1.67 | 0.13 | 4.25 | 0.34 |
| Southern Fried Bites | 300 | 94 | 1.62 | 0.15 | 1.86 | 0.18 | 3.62 | 0.34 |
| Vegan Nuggets | 280 | 70 | 1.72 | 0.12 | 1.96 | 0.14 | 4.86 | 0.34 |
| Sausages | 336 | 84 | 1.29 | 0.11 | 2.58 | 0.22 | 3.10 | 0.26 |
| Sausages | 504 | 84 | 1.47 | 0.12 | 2.09 | 0.18 | 2.28 | 0.19 |
| Bacon Style Slices | 150 | 37 | 2.75 | 0.10 | 3.57 | 0.13 | 3.78 | 0.14 |
| Roast | 454 | 90 | 2.41 | 0.22 | 3.08 | 0.28 | 6.11 | 0.55 |
| Beef Roast | 400 | 100 | 2.72 | 0.27 | 3.39 | 0.34 | 6.00 | 0.60 |
| Ham Roast | 400 | 100 | 2.34 | 0.23 | 3.02 | 0.30 | 5.50 | 0.55 |
| Vegan Steak Bake | 300 | 150 | 3.66 | 0.55 | 0.22 | 0.03 | 1.60 | 0.24 |
| Roarsomes Vegan Dinosaurs | 240 | 80 | 1.29 | 0.10 | 1.51 | 0.12 | 4.00 | 0.32 |
| Vegan Hot & Spicy Burger | 264 | 66 | 1.54 | 0.10 | 2.16 | 0.14 | 4.85 | 0.32 |
| Quarter Pounder | 227 | 114 | 1.81 | 0.21 | 3.11 | 0.35 | 4.71 | 0.54 |





| | | | | | | | | |
|-----------------------------|-----|-----|------|------|------|------|------|------|
| Sausage Patties | 168 | 42 | 2.48 | 0.10 | 3.25 | 0.14 | 3.42 | 0.14 |
| Chicktastic Burgers | 252 | 63 | 2.10 | 0.13 | 2.75 | 0.17 | 5.40 | 0.34 |
| Southern Fried Burgers | 252 | 63 | 2.11 | 0.13 | 2.77 | 0.17 | 5.40 | 0.34 |
| Cheese & Broccoli Escalope | 240 | 120 | 3.13 | 0.38 | 3.83 | 0.46 | 5.42 | 0.65 |
| Garlic Mushroom Escalope | 240 | 120 | 3.73 | 0.45 | 4.50 | 0.54 | 5.83 | 0.70 |
| Vegetarian Fillets | 312 | 52 | 1.22 | 0.06 | 1.86 | 0.10 | 2.04 | 0.11 |
| Vegan Fillets | 252 | 63 | 1.86 | 0.12 | 2.52 | 0.16 | 2.70 | 0.17 |
| Crispy Fillets | 200 | 100 | 2.26 | 0.23 | 3.03 | 0.30 | 5.00 | 0.50 |
| Garlic & Herb Fillets | 200 | 100 | 2.39 | 0.24 | 3.13 | 0.31 | 5.00 | 0.50 |
| Vegan Crunchy Fillet Burger | 200 | 100 | 1.81 | 0.18 | 2.45 | 0.25 | 4.00 | 0.40 |
| Vegan Crunchy Strips | 250 | 90 | 1.79 | 0.16 | 2.56 | 0.23 | 4.44 | 0.40 |
| Vegan Fishless Fingers | 200 | 60 | 1.79 | 0.11 | 1.99 | 0.12 | 5.00 | 0.30 |
| Chicken & Bacon Lattice | 300 | 150 | 1.88 | 0.28 | 2.59 | 0.39 | 4.00 | 0.60 |
| Steak & Gravy Pies | 400 | 200 | 1.61 | 0.32 | 2.27 | 0.45 | 3.50 | 0.70 |
| Cottage Pie | 300 | 300 | 1.27 | 0.38 | 1.96 | 0.59 | 2.83 | 0.85 |
| Lasagne | 300 | 300 | 1.59 | 0.48 | 2.30 | 0.69 | 3.17 | 0.95 |
| Tikka & Rice | 300 | 300 | 2.26 | 0.68 | 3.03 | 0.91 | 4.00 | 1.20 |

Chilled Products

| | Pack Weight (g) | Serving Size (g) | Farm to Factory Gate | | Farm to Shop | | Farm to Fork | |
|-----------------------------|-----------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving |
| Mince | 350 | 75 | 2.74 | 0.21 | 3.17 | 0.24 | 3.20 | 0.24 |
| Peppered Steaks | 196 | 98 | 3.07 | 0.30 | 3.54 | 0.35 | 3.67 | 0.36 |
| Emmental Escalope | 220 | 110 | 4.35 | 0.48 | 5.01 | 0.55 | 6.36 | 0.70 |
| Mozzarella & Pesto Escalope | 240 | 120 | 4.12 | 0.49 | 4.64 | 0.56 | 1.33 | 0.16 |
| 3 Sausage Roll | 210 | 70 | 1.35 | 0.09 | 1.72 | 0.12 | 2.14 | 0.15 |
| Vegetarian Chicken Slices | 170 | 28 | 2.85 | 0.08 | 3.30 | 0.09 | 3.39 | 0.10 |
| Vegetarian Ham Slices | 170 | 25 | 2.81 | 0.07 | 3.24 | 0.08 | 3.43 | 0.09 |
| Deli Spinach & Red Pepper | 100 | 25 | 3.41 | 0.09 | 3.87 | 0.10 | 3.80 | 0.10 |
| Turkey & Stuffing Slices | 170 | 28 | 2.65 | 0.07 | 3.08 | 0.09 | 3.04 | 0.09 |
| Deli Vegan Pepperoni | 100 | 25 | 2.19 | 0.05 | 2.53 | 0.06 | 2.60 | 0.07 |





| | | | | | | | | |
|--------------------------------------|-----|-------|------|------|------|------|------|------|
| Vegan Chicken-free Slices | 100 | 25 | 2.34 | 0.06 | 2.73 | 0.07 | 2.74 | 0.07 |
| Vegan Smoky Ham-Free Slices | 100 | 25 | 2.55 | 0.06 | 2.95 | 0.07 | 3.13 | 0.08 |
| Vegan Yorkshire Ham Style Slices | 105 | 26.25 | 2.53 | 0.07 | 2.96 | 0.08 | 3.14 | 0.08 |
| Vegan Finely Sliced Ham Style Slices | 120 | 30 | 2.48 | 0.07 | 2.89 | 0.09 | 3.07 | 0.09 |
| Vegan Roast Beef Style Slices | 105 | 26.25 | 2.56 | 0.07 | 2.99 | 0.08 | 3.17 | 0.08 |
| Vegan Roast Chicken Style Slices | 105 | 26.25 | 2.86 | 0.08 | 3.29 | 0.09 | 3.48 | 0.09 |
| Vegan Brilliant Bangers | 270 | 90 | 2.24 | 0.20 | 2.61 | 0.23 | 2.78 | 0.25 |
| Sweet Chilli Bites | 180 | 60 | 1.54 | 0.09 | 1.81 | 0.11 | 1.83 | 0.11 |

Sweden

Frozen Products

| | Pack Weight (g) | Serving Size (g) | Farm to Factory Gate | | Farm to Shop | | Farm to Fork | |
|-------------------------|-----------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving |
| Mince | 300 | 75 | 1.37 | 0.10 | 1.58 | 0.12 | 1.87 | 0.14 |
| Mince | 800 | 75 | 1.54 | 0.12 | 2.27 | 0.17 | 2.27 | 0.17 |
| Pieces | 300 | 75 | 1.34 | 0.10 | 1.94 | 0.15 | 1.98 | 0.15 |
| Pieces | 600 | 75 | 1.43 | 0.11 | 2.06 | 0.15 | 1.87 | 0.14 |
| Fillets | 312 | 52 | 1.24 | 0.06 | 1.80 | 0.09 | 1.83 | 0.10 |
| Vegan Breaded Schnitzel | 200 | 100 | 2.13 | 0.21 | 2.90 | 0.29 | 3.80 | 0.38 |
| Crispy Nuggets | 300 | 76 | 1.73 | 0.13 | 2.34 | 0.18 | 3.31 | 0.25 |
| Premium Burger | 320 | 80 | 1.78 | 0.14 | 2.17 | 0.17 | 2.50 | 0.20 |

Chilled Products

| | Pack Weight (g) | Serving Size (g) | Farm to Factory Gate | | Farm to Shop | | Farm to Fork | |
|----------------------------------|-----------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving |
| Vegan Slices with Smoked Flavour | 100 | 25 | 2.45 | 0.06 | 2.81 | 0.07 | 2.99 | 0.07 |
| Vegan ChiQin Slices | 100 | 25 | 2.48 | 0.06 | 2.84 | 0.07 | 3.01 | 0.08 |





Switzerland

| | Country | Pack Weight (g) | Serving Size (g) | Farm to Factory Gate | | Farm to Shop | | Farm to Fork | |
|--------|-------------|-----------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving |
| Pieces | Switzerland | 200 | 75 | 2.17 | 0.16 | 2.66 | 0.20 | 2.83 | 0.21 |
| Mince | Switzerland | 230 | 75 | 2.22 | 0.17 | 2.75 | 0.21 | 2.93 | 0.22 |

Asia Pacific

| | Country | Pack Weight (g) | Serving Size (g) | Farm to Factory Gate | | Farm to Shop | | Farm to Fork | |
|---------------|-------------|-----------------|------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| | | | | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving | kgCO ₂ e / kg of Product | kgCO ₂ e / Serving |
| Mince | Australia | 300 | 75 | 1.62 | 0.12 | 4.22 | 0.32 | 4.67 | 0.35 |
| Pieces | Australia | 300 | 75 | 1.48 | 0.11 | 3.92 | 0.29 | 4.27 | 0.32 |
| Vegan Fillets | Australia | 252 | 63 | 1.70 | 0.11 | 3.39 | 0.21 | 4.76 | 0.30 |
| Mince | New Zealand | 300 | 75 | 1.62 | 0.12 | 3.20 | 0.24 | 3.33 | 0.25 |
| Pieces | New Zealand | 300 | 75 | 1.48 | 0.11 | 3.05 | 0.23 | 2.93 | 0.22 |
| Mince | Philippines | 300 | 75 | 1.57 | 0.12 | 3.86 | 0.29 | 4.27 | 0.32 |
| Pieces | Philippines | 300 | 75 | 1.45 | 0.11 | 3.86 | 0.29 | 4.27 | 0.32 |
| Mince | Singapore | 300 | 75 | 1.57 | 0.12 | 3.71 | 0.28 | 4.27 | 0.32 |
| Pieces | Singapore | 300 | 75 | 1.45 | 0.11 | 3.65 | 0.27 | 4.27 | 0.32 |

