

Carbon Footprinting Emissions Report

Quorn Foods take seriously the responsibility to ensure we are managing our own impacts on the environment, which 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're committed to ambitious targets and look forward to tracking our continuous improvement.

Our products are assessed against:

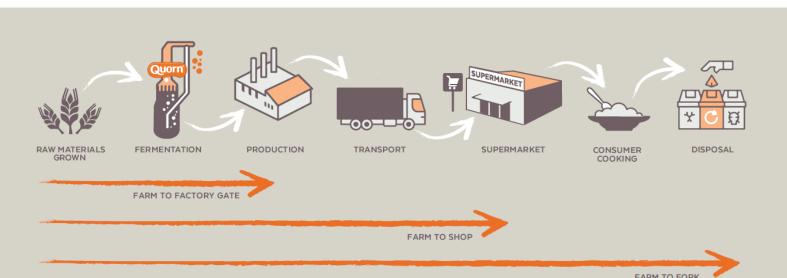
- PAS 2050:2011
- Product Carbon Footprint Protocol (parts 1 and 2) and
- The certification requirements of the Footprint ExpertTM Guide



The values shown in the Footprinting Results represent the carbon footprints of our products using 'Farm to Factory Gate' and 'Farm to Fork boundaries, as well as 'Farm to Shop' for our Sweden products. 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 products life, including 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 2019 carbon footprints for a range of our products.

Mycoprotein

kgCO₂e / kg (Farm to Factory

	Gate)
Mycoprotein	0.8

UK

Frozen Products

Mince 260 75 0.16 1.2 1.4 2.3 Mince 300 75 0.16 1.2 1.3 2.3 Mince 500 75 0.16 1.2 1.3 2.3 Mince 1000 75 0.12 1.2 - 1.4 Pieces 260 75 0.17 1.2 1.4 2.3 Pieces 300 75 0.17 1.2 1.3 2.3 Pieces 500 75 0.17 1.2 1.3 2.3 Pieces 1000 75 0.17 1.2 1.3 2.3 Pieces 1000 75 0.12 1.2 1.4 1.4 Vegan Pieces 280 70 0.18 1.4 1.6 2.4 Vegan Breaded Fillet 200 100 0.45 1.5 1.6 4.3 Vegan Hot & Spicy 264 66 0.35 1.5 1.6 5.3 <th>e / kg duct n to <)</th>	e / kg duct n to <)
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Chilled Products

	Pack Weight (g)	Serving Size (g)	kgCO ₂ e / Serving (Farm to Fork)	kgCO₂e / kg of Product (Farm to Factory Gate)	kgCO2e / kg of Product (Farm to Shop)	kgCO₂e / kg of Product (Farm to Fork)
Mince	350	75	0.21	2.2	2.2	2.9
Pieces	350	75	0.22	2.1	2.2	2.9
Sausages	250	84	0.35	2.5	2.5	4.2
Classic Burger	180	90	0.49	2.9	3.0	5.4
Mini Cocktail Sausage	180	60	0.28	3.0	3.0	4.7
Mini Savoury Eggs	240	60	0.22	2.1	2.3	3.7
Picnic Eggs	180	60	0.26	2.3	2.3	4.4
Tikka Masala	400	400	1.08	2.3	2.3	2.7
Vegan Chicken-Free Slices	100	25	0.09	3.1	3.1	3.6
Vegan Ham-Free Slices	100	25	0.09	3.1	3.2	3.7

Food Cupboard Products

	Pack Weight (g)	Serving Size (g)	kgCO₂e / Serving (Farm to Fork)	kgCO₂e / kg of Product (Farm to Factory Gate)	kgCO2e / kg of Product (Farm to Shop)	kgCO ₂ e / kg of Product (Farm to Fork)
Thai Wondergrains	200	200	0.77	3.0	3.4	3.8
Biryani Bowl	300	300	0.84	2.3	2.3	2.8
Fajita Strips	180	90	0.25	2.0	2.1	2.7
Mediterranean Wondergrains	200	200	0.80	3.1	3.2	4.0
Mexican Bean Wondergrains	200	200	0.62	2.4	2.4	3.1
Mexican Chilli Bean Bowl	300	300	0.78	2.1	2.2	2.6
Mexican Chilli Pouch	225	112	0.23	1.7	1.8	2.0
Tikka Pouch	225	112	0.20	1.4	1.5	1.8
Red Lentil Chickpea Bowl	300	300	0.95	2.6	2.7	3.2
Sun-Dried Tomato & Basil Strips	180	90	0.24	1.9	2.0	2.6
Spicy Tikka Strips	180	90	0.23	1.9	1.9	2.5



Sweden

Sweden	Pack Weight (g)	Serving Size (g)	kgCO₂e / Serving (Farm to Fork)	kgCO2e / kg of Product (Farm to Factory Gate)	kgCO2e / kg of Product (Farm to Shop)	kgCO2e / kg of Product (Farm to Fork)
Pieces	300	75	0.14	1.2	1.5	1.8
Pieces	600	75	0.13	1.2	1.5	1.8
Pieces	1000	75	0.12	1.2	1.5	1.6
Mince	300	75	0.14	1.2	1.6	1.8
Mince	800	75	0.14	1.2	1.5	1.8
Mince	1000	75	0.12	1.2	1.5	1.6
Vegan Breaded Schnitzel	200	100	0.34	1.6	2.0	3.4
Vegan Hot & Spicy Burger	264	66	0.23	1.6	1.9	3.5
Balls	1000	75	0.15	1.6	1.8	2.1
Classic Burger	320	80	0.22	1.8	2.1	2.8
Fillets	312	52	0.14	1.6	1.9	2.6
Vegan Nuggets	280	70	0.25	1.7	2.1	3.6

Norway, Finland and Denmark

	Country	Pack weight (g)	Serving size (g)	kgCO2e / Serving (Farm to Fork)	kgCO2e / kg of Product (Farm to Factory Gate)	kgCO2e / kg of Product (Farm to Fork)
Mince	Norway	300	75	0.14	1.2	1.9
Pieces	Norway	300	75	0.14	1.2	1.9
Mince	Finland	300	75	0.17	1.2	2.2
Pieces	Finland	300	75	0.17	1.2	2.3
Mince	Denmark	300	75	0.18	1.2	2.5
Pieces	Denmark	300	75	0.18	1.2	2.5

Rest of World

	Country	Pack weight (g)	Serving size (g)	kgCO2e / Serving (Farm to Fork)	kgCO2e / kg of Product (Farm to Factory Gate)	kgCO2e / kg of Product (Farm to Fork)
Mince	Australia	300	75	0.32	1.3	4.3
Pieces	Australia	300	75	0.36	1.3	4.8
Classic Burger	Australia	160	80	0.37	1.7	4.6
Vegan Fillets	Australia	252	63	0.31	1.7	4.9
Mince	New Zealand	300	75	0.26	1.3	3.4
Pieces	New Zealand	300	75	0.26	1.3	3.5
Mince	Asia	200	100	0.36	1.5	3.5
Pieces	Asia	200	100	0.37	1.5	3.7