

**Table S1.** Total results for each impact categories and farms for the production of one kilogram of eggs, using Environmental Footprint 3.0

	Battery 1	Battery 2	Battery 3	Barn 1	Barn 2	Free range 1	Free range 2	Organic 1	Organic 2	Community garden
Acidification [Mole of H <sup>+</sup> eq.]	0.114	0.107	0.113	0.125	0.12	0.0888	0.0836	0.149	0.246	0.165
Climate Change - total [kg CO <sub>2</sub> eq.]	2.17	2.07	3.13	3.52	3.37	3.37	3.04	2.19	4.73	3.48
Climate Change, biogenic [kg CO <sub>2</sub> eq.]	0.0213	0.0194	0.0248	0.0275	0.0263	0.0245	0.0232	0.00374	0.00642	0.00394
Climate Change, fossil [kg CO <sub>2</sub> eq.]	2.1	2	1.95	2.23	2.13	2.23	1.95	2.19	4.71	3.17
Climate Change, land use and land use change [kg CO <sub>2</sub> eq.]	0.0511	0.0481	1.15	1.27	1.21	1.12	1.06	0.00149	0.0121	0.31
Ecotoxicity, freshwater - total [CTUe]	68.3	64.3	56	61.6	58.9	53.9	50.8	26	75	95.1
Ecotoxicity, freshwater inorganics [CTUe]	11.7	11	11.3	12.4	11.9	10.2	9.58	6.72	17.3	16.1
Ecotoxicity, freshwater metals [CTUe]	44.2	41.6	36.5	40.1	38.4	35.7	33.7	18.1	53.3	65.3
Ecotoxicity, freshwater organics [CTUe]	12.4	11.7	8.19	9	8.62	7.97	7.52	1.17	4.43	13.7
Eutrophication, freshwater [kg P eq.]	0.000427	0.000401	0.000443	0.000487	0.000466	0.000431	0.000408	0.000517	0.00137	0.00119
Eutrophication, marine [kg N eq.]	0.0297	0.0279	0.028	0.0309	0.0296	0.0288	0.0272	0.0746	0.145	0.0826
Eutrophication, terrestrial [Mole of N eq.]	0.502	0.469	0.497	0.548	0.525	0.388	0.365	0.661	1.09	0.723
Human toxicity, cancer - total [CTUh]	2.51×10 <sup>-9</sup>	2.36×10 <sup>-9</sup>	2.06×10 <sup>-9</sup>	2.26×10 <sup>-9</sup>	2.17×10 <sup>-9</sup>	2.01×10 <sup>-9</sup>	1.90×10 <sup>-9</sup>	5.31×10 <sup>-9</sup>	7.07×10 <sup>-9</sup>	4.29×10 <sup>-9</sup>
Human toxicity, cancer inorganics [CTUh]	6.06×10 <sup>-21</sup>	5.64×10 <sup>-21</sup>	7.90×10 <sup>-21</sup>	8.73×10 <sup>-21</sup>	8.34×10 <sup>-21</sup>	7.97×10 <sup>-21</sup>	7.51×10 <sup>-21</sup>	2.34×10 <sup>-21</sup>	3.68×10 <sup>-21</sup>	1.49×10 <sup>-21</sup>
Human toxicity, cancer metals [CTUh]	2.21×10 <sup>-9</sup>	2.08×10 <sup>-9</sup>	1.84×10 <sup>-9</sup>	2.02×10 <sup>-9</sup>	1.94×10 <sup>-9</sup>	1.80×10 <sup>-9</sup>	1.69×10 <sup>-9</sup>	5.03×10 <sup>-9</sup>	6.52×10 <sup>-9</sup>	3.83×10 <sup>-9</sup>
Human toxicity, cancer organics [CTUh]	2.96×10 <sup>-10</sup>	2.80×10 <sup>-10</sup>	2.18×10 <sup>-10</sup>	2.40×10 <sup>-10</sup>	2.30×10 <sup>-10</sup>	2.17×10 <sup>-10</sup>	2.04×10 <sup>-10</sup>	2.78×10 <sup>-10</sup>	5.47×10 <sup>-10</sup>	4.53×10 <sup>-10</sup>
Human toxicity, non-cancer - total [CTUh]	1.47×10 <sup>-7</sup>	1.38×10 <sup>-7</sup>	1.37×10 <sup>-7</sup>	1.50×10 <sup>-7</sup>	1.44×10 <sup>-7</sup>	1.33×10 <sup>-7</sup>	1.26×10 <sup>-7</sup>	5.45×10 <sup>-7</sup>	4.13×10 <sup>-7</sup>	1.51×10 <sup>-7</sup>
Human toxicity, non-cancer inorganics [CTUh]	5.23×10 <sup>-9</sup>	4.97×10 <sup>-9</sup>	4.93×10 <sup>-9</sup>	5.41×10 <sup>-9</sup>	5.18×10 <sup>-9</sup>	4.91×10 <sup>-9</sup>	4.60×10 <sup>-9</sup>	5.52×10 <sup>-9</sup>	1.10×10 <sup>-8</sup>	7.36×10 <sup>-9</sup>
Human toxicity, non-cancer metals [CTUh]	1.40×10 <sup>-7</sup>	1.32×10 <sup>-7</sup>	1.31×10 <sup>-7</sup>	1.44×10 <sup>-7</sup>	1.38×10 <sup>-7</sup>	1.28×10 <sup>-7</sup>	1.20×10 <sup>-7</sup>	5.39×10 <sup>-7</sup>	4.00×10 <sup>-7</sup>	1.41×10 <sup>-7</sup>
Human toxicity, non-cancer organics [CTUh]	1.48×10 <sup>-9</sup>	1.41×10 <sup>-9</sup>	1.05×10 <sup>-9</sup>	1.15×10 <sup>-9</sup>	1.11×10 <sup>-9</sup>	1.19×10 <sup>-9</sup>	9.40×10 <sup>-10</sup>	6.16×10 <sup>-10</sup>	2.23×10 <sup>-9</sup>	2.67×10 <sup>-9</sup>
Ionising radiation, human health [kBq U235 eq.]	0.0796	0.0769	0.0785	0.0862	0.0826	0.0839	0.0782	0.0956	0.1909	0.1162
Land Use [Pt]	242	227	324	357	341	330	311	105	631	535
Ozone depletion [kg CFC-11 eq.]	9.08×10 <sup>-8</sup>	8.54×10 <sup>-8</sup>	7.75×10 <sup>-8</sup>	8.52×10 <sup>-8</sup>	8.16×10 <sup>-8</sup>	7.55×10 <sup>-8</sup>	7.12×10 <sup>-8</sup>	7.65×10 <sup>-8</sup>	1.99×10 <sup>-7</sup>	1.47×10 <sup>-7</sup>
Particulate matter [Disease incidences]	8.90×10 <sup>-7</sup>	8.28×10 <sup>-7</sup>	8.82×10 <sup>-7</sup>	9.73×10 <sup>-7</sup>	9.32×10 <sup>-7</sup>	7.09×10 <sup>-7</sup>	6.69×10 <sup>-7</sup>	1.02×10 <sup>-6</sup>	1.70×10 <sup>-6</sup>	1.14×10 <sup>-6</sup>
Photochemical ozone formation, human health [kg NMVOC eq.]	0.005233	0.00495	0.005053	0.00555	0.00532	0.00503	0.0047	0.00616	0.012959	0.008673
Resource use, fossils [MJ]	13.3	12.8	13.9	15.3	14.6	14.5	13.6	13.3	27.3	17.2
Resource use, mineral and metals [kg Sb eq.]	3.81×10 <sup>-5</sup>	3.58×10 <sup>-5</sup>	3.30×10 <sup>-5</sup>	3.63×10 <sup>-5</sup>	3.47×10 <sup>-5</sup>	3.22×10 <sup>-5</sup>	3.03×10 <sup>-5</sup>	3.24×10 <sup>-5</sup>	8.69×10 <sup>-5</sup>	6.45×10 <sup>-5</sup>
Water use [m <sup>3</sup> world equiv.]	5.17	4.85	5.12	5.69	5.39	5.04	4.75	5.83	10.35	11.80