

Env Workshop 4b Transport per person

Mode	Detail	Occupancy	Journey CO2_g/km	Per Person CO2_gp/km	Per person NOx_gp/km	LCA Per Person CO2_gp/km	LCA Per Person NOx_gp/km	Env_Rating
CAR	Average SUV / 4x4 petrol	1	307	307	0.04	399	0.27	78
CAR	Average SUV / 4x4 diesel	1	274	274	0.38	371	0.58	71
FLY	Domestic UK (B737-400)	65%	32107	338	0.54	350	0.60	67
CAR	Average SUV / 4x4 LP gas	1	280	280	0.02	348	0.23	0
CAR	Average large family petrol	1	244	244	0.03	317	0.22	57
CAR	Average SUV / 4x4 petrol hybrid	1	215	215	0.01	303	0.20	0
TAXI	Black cab TX4 [from 06]: Diesel	1	222	222	0.30	301	0.49	76
FLY	Long-haul International (B747-400)	80%	93102	280	0.49	288	0.53	54
TAXI	Minicab passenger car: Petrol	1	216	216	0.03	281	0.22	57
CAR	Average small family petrol	1	214	214	0.03	278	0.20	48
CAR	Average large family LP gas	1	222	222	0.02	277	0.19	0
CAR	Average large family diesel	1	195	195	0.29	266	0.44	57
CAR	Average SUV / 4x4 petrol	1.6	307	192	0.02	249	0.17	48
CAR	Average small family LP gas	1	195	195	0.02	243	0.17	0
CAR	Average large family petrol hybrid	1	171	171	0.01	241	0.16	0
TAXI	Minicab passenger car: Diesel	1	177	177	0.21	241	0.37	53
FLY	Short-haul International (B737-400)	80%	26864	230	0.28	237	0.32	44
CAR	Average SUV / 4x4 diesel	1.6	274	171	0.24	232	0.37	44
CAR	Average small family diesel	1	169	169	0.24	232	0.38	50
FLY	Long-haul International (B747-400)	100%	93102	224	0.39	230	0.43	44
FLY	Domestic UK (B737-400)	100%	32107	220	0.35	228	0.39	44
CAR	Average SUV / 4x4 LP gas	1.6	280	175	0.02	217	0.15	0
CAR	Average small family petrol hybrid	1	150	150	0.01	212	0.15	0
CAR	Average city-car petrol	1	153	153	0.03	200	0.15	41
CAR	Average SUV / 4x4 petrol	2	307	154	0.02	200	0.14	39
CAR	Average large family petrol	1.6	244	153	0.02	198	0.14	36
CAR	Average SUV / 4x4 petrol hybrid	1.6	215	135	0.01	190	0.13	0
FLY	Short-haul International (B737-400)	100%	26864	184	0.23	189	0.26	35
CAR	Average SUV / 4x4 diesel	2	274	137	0.19	186	0.29	36
CAR	Average city-car diesel	1	133	133	0.32	183	0.43	36
CAR	Average city-car LP gas	1	139	139	0.02	175	0.13	0
CAR	Average small family petrol	1.6	214	134	0.02	174	0.12	30

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CAR	Average SUV / 4x4 LP gas	2	280	140	0.01	174	0.12	0
CAR	Average large family LP gas	1.6	222	139	0.01	173	0.12	0
CAR	Average large family diesel	1.6	195	122	0.18	166	0.28	36
CAR	Average large family petrol	2	244	122	0.02	159	0.11	28
CAR	Average city-car petrol hybrid	1	107	107	0.01	152	0.11	0
RAIL	InterCity 125: diesel-electric (national network)	25%	14857	126	1.67	152	1.73	62
CAR	Average small family LP gas	1.6	195	122	0.01	152	0.11	0
CAR	Average SUV / 4x4 petrol hybrid	2	215	108	0.00	152	0.10	0
CAR	Average large family petrol hybrid	1.6	171	107	0.01	151	0.10	0
TAXI	Black cab TX4 [from 06]: Diesel	2	222	111	0.15	150	0.25	38
RAIL	Voyager class: diesel-electric (Virgin Train)	25%	6963	120	0.95	146	1.01	44
CAR	Average small family diesel	1.6	169	106	0.15	145	0.24	31
TAXI	Minicab passenger car: Petrol	2	216	108	0.01	140	0.11	29
CAR	Average small family petrol	2	214	107	0.02	139	0.10	24
CAR	Average large family LP gas	2	222	111	0.01	138	0.09	0
CAR	Average SUV / 4x4 petrol	3	307	102	0.01	133	0.09	26
CAR	Average large family diesel	2	195	98	0.15	133	0.22	28
CAR	Average small family petrol hybrid	1.6	150	94	0.01	132	0.09	0
RAIL	Sprinter: diesel (regional network)	25%	3912	105	2.44	127	2.50	65
CAR	Average large family electric (standard)	1	0	0	0.00	125	0.24	0
CAR	Average city-car petrol	1.6	153	96	0.02	125	0.09	26
CAR	Average SUV / 4x4 diesel	3	274	91	0.13	124	0.19	24
CAR	Average small family LP gas	2	195	97	0.01	121	0.08	0
CAR	Average small family electric (standard)	1	0	0	0.00	121	0.23	0
CAR	Average large family petrol hybrid	2	171	85	0.00	121	0.08	0
TAXI	Minicab passenger car: Diesel	2	177	89	0.11	120	0.18	27
CAR	Average SUV / 4x4 LP gas	3	280	93	0.01	116	0.08	0
CAR	Average small family diesel	2	169	85	0.12	116	0.19	25
CAR	Average city-car diesel	1.6	133	83	0.20	114	0.27	23
CAR	Average city-car electric (standard)	1	0	0	0.00	111	0.21	0
CAR	Average city-car LP gas	1.6	139	87	0.01	109	0.08	0
CAR	Average small family petrol hybrid	2	150	75	0.00	106	0.07	0

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CAR	Average large family petrol	3	244	81	0.01	106	0.07	19
RAIL	Network Turbo: diesel (regional network)	25%	3637	85	0.70	102	0.75	35
CAR	Average SUV / 4x4 petrol hybrid	3	215	72	0.00	101	0.07	0
TAXI	Black cab TX4 [from 06]: Diesel	3	222	74	0.10	100	0.16	25
CAR	Average city-car petrol	2	153	77	0.01	100	0.07	21
CAR	Average SUV / 4x4 petrol	4	307	77	0.01	100	0.07	19
CAR	Average city-car petrol hybrid	1.6	107	67	0.00	95	0.07	0
TAXI	Minicab passenger car: Petrol	3	216	72	0.01	94	0.07	19
CAR	Average small family petrol	3	214	71	0.01	93	0.07	16
CAR	Average SUV / 4x4 diesel	4	274	68	0.09	93	0.15	18
CAR	Average large family LP gas	3	222	74	0.01	92	0.06	0
CAR	Average city-car diesel	2	133	67	0.16	91	0.21	18
BUS	Diesel (from 2006)	25%	643	73	0.84	91	0.89	35
CAR	Average large family diesel	3	195	65	0.10	89	0.15	19
M/CYCLE	4-Stroke <250cc	1	73	73	0.13	88	0.18	25
CAR	Average city-car LP gas	2	139	70	0.01	87	0.06	0
CAR	Average SUV / 4x4 LP gas	4	280	70	0.01	87	0.06	0
BUS	Diesel (pre 2001)	25%	572	65	1.11	81	1.15	41
CAR	Average small family LP gas	3	195	65	0.01	81	0.06	0
CAR	Average large family petrol hybrid	3	171	57	0.00	80	0.05	0
TAXI	Minicab passenger car: Diesel	3	177	59	0.07	80	0.12	18
CAR	Average SUV / 4x4 petrol	5	307	61	0.01	80	0.05	16
CAR	Average large family petrol	4	244	61	0.01	79	0.05	14
CAR	Average large family electric (standard)	1.6	0	0	0.00	78	0.15	0
CAR	Average small family diesel	3	169	56	0.08	77	0.13	17
CAR	Average city-car petrol hybrid	2	107	54	0.00	76	0.05	0
CAR	Average SUV / 4x4 petrol hybrid	4	215	54	0.00	76	0.05	0
CAR	Average small family electric (standard)	1.6	0	0	0.00	75	0.14	0
TAXI	Black cab TX4 [from 06]: Diesel	4	222	56	0.07	75	0.12	19
CAR	Average SUV / 4x4 diesel	5	274	55	0.08	74	0.12	14
CAR	Average small family petrol hybrid	3	150	50	0.00	71	0.05	0
RAIL	InterCity 225: electric (national network)	25%	0	0	0.00	70	0.15	17

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TAXI	Minicab passenger car: Petrol	4	216	54	0.01	70	0.05	14
CAR	Average small family petrol	4	214	54	0.01	70	0.05	12
CAR	Average SUV / 4x4 LP gas	5	280	56	0.00	70	0.05	0
CAR	Average city-car electric (standard)	1.6	0	0	0.00	69	0.13	0
CAR	Average large family LP gas	4	222	56	0.01	69	0.05	0
CAR	Average city-car petrol	3	153	51	0.01	67	0.05	14
CAR	Average large family diesel	4	195	49	0.07	67	0.11	14
CAR	Average large family petrol	5	244	49	0.01	63	0.04	11
CAR	Average large family electric (standard)	2	0	0	0.00	63	0.12	0
M/CYCLE	2-Stroke 50-125cc	1	51	51	0.20	62	0.24	24
CAR	Average city-car diesel	3	133	44	0.11	61	0.14	12
CAR	Average small family LP gas	4	195	49	0.01	61	0.04	0
CAR	Average SUV / 4x4 petrol hybrid	5	215	43	0.00	61	0.04	0
CAR	Average small family electric (standard)	2	0	0	0.00	60	0.11	0
CAR	Average large family petrol hybrid	4	171	43	0.00	60	0.04	0
TAXI	Black cab TX4 [from 06]: Diesel	5	222	44	0.06	60	0.10	15
TAXI	Minicab passenger car: Diesel	4	177	44	0.05	60	0.09	13
CAR	Average city-car LP gas	3	139	46	0.01	58	0.04	0
CAR	Average small family diesel	4	169	42	0.06	58	0.09	12
TAXI	Minicab passenger car: Petrol	5	216	43	0.01	56	0.04	11
CAR	Average small family petrol	5	214	43	0.01	56	0.04	10
CAR	Average city-car electric (standard)	2	0	0	0.00	55	0.10	0
CAR	Average large family LP gas	5	222	44	0.00	55	0.04	0
CAR	Average large family diesel	5	195	39	0.06	53	0.09	11
CAR	Average small family petrol hybrid	4	150	37	0.00	53	0.04	0
TUBE	London Underground	40%	0	0	0.00	53	0.11	12
CAR	Average city-car petrol hybrid	3	107	36	0.00	51	0.04	0
CAR	Average city-car petrol	4	153	38	0.01	50	0.04	10
CAR	Average small family LP gas	5	195	39	0.00	49	0.03	0
CAR	Average large family petrol hybrid	5	171	34	0.00	48	0.03	0
TAXI	Minicab passenger car: Diesel	5	177	35	0.04	48	0.07	11
M/CYCLE	2-Stroke <50cc	1	39	39	0.26	48	0.29	39

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CAR	Average small family diesel	5	169	34	0.05	46	0.08	10
CAR	Average city-car diesel	4	133	33	0.08	46	0.11	9
M/CYCLE	4-Stroke <250cc	2	73	37	0.07	44	0.09	12
CAR	Average city-car LP gas	4	139	35	0.00	44	0.03	0
CAR	Average small family petrol hybrid	5	150	30	0.00	42	0.03	0
CAR	Average large family electric (standard)	3	0	0	0.00	42	0.08	0
CAR	Average small family electric (standard)	3	0	0	0.00	40	0.08	0
CAR	Average city-car petrol	5	153	31	0.01	40	0.03	8
CAR	Average city-car petrol hybrid	4	107	27	0.00	38	0.03	0
RAIL	InterCity 125: diesel-electric (national network)	100%	14857	31	0.42	38	0.43	16
CAR	Average city-car electric (standard)	3	0	0	0.00	37	0.07	0
CAR	Average city-car diesel	5	133	27	0.06	37	0.09	7
RAIL	Voyager class: diesel-electric (Virgin Train)	100%	6963	30	0.24	36	0.25	11
CAR	Average city-car LP gas	5	139	28	0.00	35	0.03	0
RAIL	Sprinter: diesel (regional network)	100%	3912	26	0.61	32	0.63	16
CAR	Average large family electric (standard)	4	0	0	0.00	31	0.06	0
M/CYCLE	2-Stroke 50-125cc	2	51	26	0.10	31	0.12	12
M/CYCLE	Electric scooter (std tariff)	1	0	0	0.00	31	0.06	9
CAR	Average city-car petrol hybrid	5	107	21	0.00	30	0.02	0
CAR	Average small family electric (standard)	4	0	0	0.00	30	0.06	0
TUBE	London Underground	70%	0	0	0.00	30	0.07	7
CAR	Average city-car electric (standard)	4	0	0	0.00	28	0.05	0
RAIL	Network Turbo: diesel (regional network)	100%	3637	21	0.18	26	0.19	9
CAR	Average large family electric (standard)	5	0	0	0.00	25	0.05	0
WALK	Average diet including imported food	1	0	0	0.00	24	0.04	5
CAR	Average small family electric (standard)	5	0	0	0.00	24	0.05	0
M/CYCLE	2-Stroke <50cc	2	39	20	0.13	24	0.14	20
CAR	Average city-car electric (standard)	5	0	0	0.00	22	0.04	0
BUS	Diesel (pre 2001)	100%	597	17	0.16	21	0.17	7
BUS	Diesel (from 2006)	100%	597	17	0.08	21	0.09	5
TUBE	London Underground	100%	0	0	0.00	21	0.05	5
CYCLE	Average diet including imported food	1	0	0	0.00	18	0.03	4

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RAIL	InterCity 225: electric (national network)	100%	0	0	0.00	18	0.04	4
M/CYCLE	Electric scooter (std tariff)	2	0	0	0.00	15	0.03	4
TUBE	London Underground	200%	0	0	0.00	11	0.02	2
CYCLE	UK grown low-processed food	1	0	0	0.00	10	0.02	3
WALK	UK grown low-processed food	1	0	0	0.00	10	0.02	2
CYCLE	Local organically produced food only	1	0	0	0.00	8	0.01	2
M/CYCLE	Electric scooter (green tariff)	1	0	0	0.00	7	0.01	3
WALK	Local organically produced food only	1	0	0	0.00	5	0.01	1
M/CYCLE	Electric scooter (green tariff)	1	0	0	0.00	4	0.01	2

Data: Camden council/Travelfootprint.org/ Clear Zone Partnership

Adelante/Voyager high-speed diesel multiple unit trains are typically operated by Virgin for inter-city journeys across the network.

Battery electric cars can be recharged at home or work and only require access to a conventional electric socket.

Before Oct 2001 Euro II emissions standards

Before Oct 2001 Euro II emissions standards

Diesel fuel is assumed to be Ultra Low Sulphur Diesel (ULSD).

Electric scooter shown has performance equivalent to a 400cc 4-stroke motorcycle.

Emissions based on six-car 1995 Stock rolling-stock as currently used on London Underground's Northern Line.

Emissions data based on the Boeing 737; the most popular narrow-body commercial passenger jet aircraft currently in service.

Emissions data based on the Boeing 747; the most popular wide-body commercial passenger jet aircraft currently in service.

Emissions impacts are due to agricultural activities (including fertiliser input); food processing and international (air and surface) transport.

Emissions impacts are due to agricultural activities (including fertiliser input); food processing and UK (surface) transport.

Emissions impacts are due to agricultural activities low-level processing and local transport.

From Oct 2006 latest Euro IV emissions standards.

InterCity125 high-speed diesel-electric trains are typically operated by First Great Western for inter-city journeys across the network.

InterCity225 high-speed electric trains are typically operated by GNER for inter-city journeys across the network.

LP Gas stands for Liquefied Petroleum Gas. Most spark-ignition engines can be modified to operate on LPG.

Minicab vehicle assumed to be the size of a large family car conforming to the latest Euro IV emissions standards.