**Annex V.3 Detailed data for estimating CH4 and N2O emissions from National and International Aviation**

***The values of CH4 and N2O emissions for each cycle type of aircraft flight (kg fuel LTO)***

***National LTO***

Source = Eurostat website

Aircraft traffic data by reporting country [avia\_tf\_acc]

| **AIRCRAFT/TIME** | | | **Fuel consumption** | |  | | **LTO EFs** | |  | |  |  | |  | |  |  | |  | |  |  | |  | |  | |  |  |  |  | |  | |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **kg fuel/LTO** | | **source** | | **kg CH4 /**  **LTO** | | **kg N2O /**  **LTO** | | **source** | **2004** | | **2005** | | **2006** | **2007** | | **2008** | | **2009** | **2010** | | **2011** | | **2012** | | **2013** | **2014** | **2015** | **2016** | | **2017** | | **2018** | **2019** | **2020** | **2021** | **2022** | **2023** |
| Aerospatiale AS332 | | |  | |  | |  | |  | |  | : | | : | | : | : | | : | | : | 2 | | : | | : | | : | : | : | : | | : | | : | : | : | : | : |  |
| Aerospatiale ATR 42 - all models | | | 200.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 9,683 | | 12,813 | | 13,034 | 14,005 | | 14,378 | | 15,594 | 8,823 | | 9,014 | | 9,123 | | 7,328 | 6,424 | 5,427 | 6,805 | | 5,546 | | 5,479 | 6,619 | 1.113 | 428 | 756 | 679 |
| Aerospatiale ATR 72 - all models | | | 200.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 1 | | : | | : | : | | 1 | | 1,597 | 3,176 | | 2,919 | | 1,871 | | 2,888 | 3,078 | 2,972 | 2,529 | | 1,702 | | 2,615 | 2.797 | 1.320 | 1.920 | 1.919 | 2,399 |
| Other Aerospatiale models | | | 200.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 1,495 | | 659 | | 545 | 777 | | 26 | | 43 | 5,924 | | 2,688 | | 3 | | 1 | 1 | : | 1 | | : | | : | 2 | 3 | 1 | : | 16 |
| Airbus A300 - all models | | | 1,720.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.12 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Airbus A310 - all models | | | 1,510.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.63 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | 4 | | 109 | | 61 | 30 | | 3 | | : | | 64 | 302 | 287 | 385 | | 108 | | 70 | 266 | 48 | 113 | 35 | 99 |
| Airbus A318 - all models | | | 730.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 3 | 467 | | 2,952 | | 2,679 | 2,418 | | 1,896 | | 1,441 | | 1,308 | 785 | 696 | 870 | | 1,044 | | 1,311 | 1,179 | 398 | 845 | 716 | 693 |
| Airbus A319 - all models | | | 730.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 1 | | : | | 1 | 1 | | 7 | | : | : | | : | | : | | : | : | 72 | : | | : | | : | : | 1 | 16 | 17 | 23 |
| Airbus A320 - all models | | | 770.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | 3 | | 94 | 16 | | 238 | | 31 | 9 | | 11 | | 6 | | 2 | 4 | 127 | 351 | | 1,002 | | 770 | 47 | 15 | 61 | 1,221 | 1,861 |
| Airbus A321 - all models | | | 960.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | 3 | 3 | : | 2 | 10 | 60 |
| Airbus A330 - all models | | | 2,230.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.13 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Airbus A340 - all models | | | 2,020.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.39 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Airbus A380 - all models | | |  | |  | |  | |  | |  | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Airbus models | | | 1,333.75 | | average of Airbus aircrafts listed here | | 0.20 | | 0.15 | | average of Airbus aircrafts listed here | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | 1 |
| Antonov An-32 | | | 138.00 | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Antonov models | | |  | |  | |  | |  | |  | 16 | | : | | : | : | | : | | : | : | | : | | : | | : | 3 | : | : | | 1 | | : | 2 | : | : | : | : |
| BAe-Avroliner RJ 100 | | | 570.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| BAe-Avroliner RJ 85 | | | 600.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.13 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | 2 | | 166 | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Avroliner models | | | 600.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.13 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 26 | | : | | 6 | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| BAe 146 - all models | | | 570.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 298 | | 495 | | 569 | 38 | | 72 | | 18 | 12 | | 7 | | 8 | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other BAe models | | | 570.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 185 | | 9 | | 206 | 73 | | 79 | | 32 | 4 | | 9 | | 2 | | : | : | : | : | | : | | : | 2 | : | 1 | : | 3 |
| Boeing 717 - all models | | | 680.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.01 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing 727 - all models | | | 1,460.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.81 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing 737 - all models | | | 870.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.45 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 601 | | 929 | | 1,520 | 2,722 | | 2,368 | | 3,412 | 4,649 | | 2,469 | | 988 | | 1,006 | 1,206 | 1,652 | 4,523 | | 7,490 | | 7,796 | 6,570 | 2,665 | 3,566 | 3,741 | 1,961 |
| Boeing 747 - all models | | | 3,510.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.27 | | 0.4 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing 757 - all models | | | 1,460.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.01 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | 2 | | 1 | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing 767 - all models | | | 1,750.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.1 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing 777 - all models | | | 2,560.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.07 | | 0.3 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | 8 | | : | | : | : | : | : | : | : |
| Boeing MD-11 | | | 2,310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.24 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing MD-80 | | | 1,010.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 5 | 37 | | 1 | | : | : | | 1 | | 2 | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing MD-81 | | | 1,010.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | 10 | | 1 | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing MD-82 | | | 1,010.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 1 | | : | | : | 10 | | 42 | | : | 2 | | : | | : | | 1 | 7 | : | : | | : | | : | : | : | : | 1 | : |
| Boeing MD-83 | | | 1,010.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | 1 | | 5 | | 1 | 1 | | : | | : | | 2 | 17 | : | : | | : | | : | : | : | : | : | : |
| Boeing MD-87 | | | 1,010.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing MD-88 | | | 1,010.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Boeing MD-90 | | | 870.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.01 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Boeing models | | | 1,435.00 | | average of Boeing aircrafts listed here | | 0.21 | | 0.15 | | average of Boeing aircrafts listed here | : | | 2 | | 1 | : | | 2 | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Britten-Norman BN-2 | | |  | |  | |  | |  | |  | : | | : | | : | 3 | | 8 | | 194 | : | | : | | : | | : | : | : | : | | : | | 1 | : | : | : | : | : |
| Other Britten-Norman models | | |  | |  | |  | |  | |  | : | | : | | : | : | | : | | : | : | | 2 | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Canadair CL-600 regional jet - all models | | | 330.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 2 | : | | 1 | | 29 | 1 | | 3 | | 1 | | 6 | 1 | : | : | | : | | 2 | : | : | : | : | : |
| Other Canadair models | | | 330.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 3 | 14 | | 9 | | 2 | 5 | | : | | 1 | | : | 1 | 0 | : | | 10 | | 2 | : | : | 4 | 1 | 2 |
| De Havilland Canada Dash 8 - all models | | | 200.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | 1 | | 1 | | : | 1 | | : | | 2 | | : | 1 | 3 | : | | : | | : | : | : | : | : | : |
| Other de Havilland models | | | 200.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 3 | 1 | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Dornier 328 | | | 280.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 1 | : | | 12 | | : | : | | : | | : | | : | : | : | : | | 1 | | : | : | : | : | 4 | 2 |
| Other Dornier models | | | 280.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | 1 | | : | | : | : | | : | | 2 | | : | : | : | : | | : | | : | : | : | : | : | : |
| Douglas DC-10 - all models | | | 2,310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.24 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Douglas DC-8 - all models | | | 1,700.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.15 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Douglas DC-9 - all models | | | 840.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.46 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | 1 | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Douglas models | | | 2,310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.24 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Embraer 120 | | | 310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | 8 | | : | | : | 2 | 7 | : | | : | | 2 | : | 2 | : | : | : |
| Embraer 135 | | | 310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 1 | | : | | : | : | | 3 | | : | 1 | | : | | 1 | | 1 | : | : | : | | : | | : | : | : | : | : | 3 |
| Embraer 145 | | | 310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | 24 | : | | : | | : | | : | : | : | : | | : | | : | 1 | : | : | : | : |
| Embraer 170 | | | 310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Embraer models | | | 310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 3 | | : | | : | : | | : | | : | : | | 1 | | : | | : | : | 3 | 8 | | 9 | | 50 | 85 | 58 | 70 | 128 | 130 |
| Fokker 50 | | | 760.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Fokker 70 | | | 760.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | 2 | | : | 4 | | 101 | | 51 | 283 | | 521 | | 224 | | 9 | : | : | : | | : | | : | : | : | : | : | : |
| Fokker 100 | | | 760.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | 125 | 174 | | 491 | | 524 | 160 | | 294 | | 398 | | 180 | 2 | : | : | | : | | : | : | : | 1 | : | : |
| Other Fokker models | | | 760.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | 3 | | 148 | 197 | | 6 | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Lockheed L-1011 TriStar | | | 2,310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 7.4 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Lockheed models | | | 2,310.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 7.4 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 1 | | : | | : | : | | : | | : | : | | : | | 2 | | : | : | : | : | | : | | : | : | : | : | : | 1 |
| Saab 2000 | | | 153.00 | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 3,341 | | 4,126 | | 3,482 | 5,237 | | 4,793 | | 5,412 | 4,076 | | 2,712 | | 1,380 | | 211 | : | : | : | | : | | 3 | : | : | : | : | 1 |
| Saab 340 | | | 75.10 | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | 0 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 3,445 | | 2,004 | | 391 | 162 | | : | | 166 | 2,832 | | 71 | | 1 | | : | 7 | : | 2 | | : | | 1 | 2 | 126 | 1 | 2 | 381 |
| Other Saab models | | | 153.00 | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | 163 | | 80 | | 40 | : | | : | | : | 202 | | 89 | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Tupolev Tu-134 | | | 930.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1.8 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Tupolev Tu-154 | | | 1,890.00 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1.32 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other Tupolev models | | | 1,890.00 | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | 1.32 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | : | | : | | : | : | | : | | : | : | | : | | : | | : | : | : | : | | : | | : | : | : | : | : | : |
| Other | | |  | |  | |  | |  | |  | 719 | | 290 | | 730 | 515 | | 606 | | 2,004 | 1,427 | | 458 | | 133 | | 70 | 63 | 47 | 93 | | 246 | | 549 | 519 | 2,050 | 3.536 | 5,414 | 5,710 |
| Unknown | | |  | |  | |  | |  | |  | 76 | | 0 | | 186 | 229 | | 16 | | 49 | 48 | | 15 | | 14 | | 16 | 20 | 31 | 154 | | 2,053 | | 1,488 | 252 | 670 | 370 | 186 | 223 |
| Total aircraft | | |  | | | | | | | | | **20,056** | | **21,417** | | **21,261** | **24,700** | | **26,330** | | **31,924** | **34,086** | | **23,191** | | **15,603** | | **13,093** | **11,924** | **11,324** | **15,729** | | **19,212** | | **20,142** | **18,347** | **8,469** | **10,935** | **14,151** | **14,248** |
| Total fuel consumption LTO - national | | | t fuel | | | | | | | | | **3,850** | | **4,594** | | **5,443** | **6,911** | | **8,786** | | **9,813** | **10,665** | | **7,537** | | **4,814** | | **4,153** | **4,010** | **4,213** | **7,312** | | **9,669** | | **10,078** | **8,929** | **3,209** | **4,445** | **5,370** | **4,564** |
| Total CH4 emissions LTO - national | | | kt CH4 | | | | | | | | | **0.001** | | **0.001** | | **0.001** | **0.002** | | **0.002** | | **0.003** | **0.003** | | **0.002** | | **0.001** | | **0.001** | **0.001** | **0.001** | **0.003** | | **0.004** | | **0.004** | **0.003** | **0.001** | **0.002** | **0.002** | **0.001** |
| Total N2O emissions LTO - national | | | kt N2O | | | | | | | | | **0.000** | | **0.001** | | **0.001** | **0.001** | | **0.001** | | **0.001** | **0.001** | | **0.001** | | **0.001** | | **0.000** | **0.000** | **0.000** | **0.001** | | **0.001** | | **0.001** | **0.001** | **0.000** | **0.001** | **0.001** | **0.001** |
| EF CH4 LTO - national | | | kg CH4/tfuel | | | | | | | | | **0.205** | | **0.222** | | **0.252** | **0.280** | | **0.230** | | **0.255** | **0.280** | | **0.248** | | **0.209** | | **0.220** | **0.267** | **0.292** | **0.360** | | **0.391** | | **0.389** | **0.390** | **0.415** | **0.406** | **0.356** | **0.267** |
| EF N2O LTO - national | | | kg N2O/t fuel | | | | | | | | | **0.123** | | **0.117** | | **0.117** | **0.113** | | **0.119** | | **0.117** | **0.118** | | **0.116** | | **0.115** | | **0.114** | **0.113** | **0.114** | **0.115** | | **0.116** | | **0.116** | **0.115** | **0.115** | **0.117** | **0.118** | **0.121** |
|  |  |  | |  | |  | |  | |  |  | |  | |  |  | |  | |  | | |  | |  | |  |  |  |  | |  | |

***The values of CH4 and N2O emissions for each cycle type of aircraft flight (kg fuel LTO)***

***International LTO***

Source = Eurostat website

Aircraft traffic data by reporting country [avia\_tf\_acc]

| **AIRCRAFT/TIME** | | | | | | | | | | | | | | | **Fuel consumption** | | | | |  | | | **LTO EFs** | |  | |  | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **kg fuel/LTO** | | | | | **source** | | | **kg CH4 / LTO** | | **kg N2O / LTO** | | **source** | | **2004** | | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** | **2015** | **2016** | **2017** | **2018** | **2019** | **2020** | **2021** | **2022** | **2023** |
| Aerospatiale AS332 | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | : | | : | : | 2 | : | : | 7 | : | : | : | : | 2 | : | : | : | : | : | : | : |  |
| Aerospatiale ATR 42 - all models | | | | | | | | | | | | | | | 200.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 5,783 | | 7,379 | 8,329 | 5,701 | 5,220 | 5,622 | 3,514 | 3,393 | 5,088 | 5,129 | 5,545 | 5,491 | 5,088 | 5,619 | 4,814 | 4,188 | 652 | 71 | 36 | 28 |
| Aerospatiale ATR 72 - all models | | | | | | | | | | | | | | | 200.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 149 | | 336 | 655 | 657 | 977 | 1,256 | 2,356 | 3,148 | 1,187 | 1,605 | 1,971 | 1,925 | 3,008 | 2,668 | 3,534 | 3,407 | 1,621 | 1,344 | 538 | 251 |
| Other Aerospatiale models | | | | | | | | | | | | | | | 200.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1,011 | | 496 | 467 | 596 | 13 | 9 | 2,529 | 1,553 | 9 | 28 | 6 | 5 | : | : | 15 | 1 | 2 | 34 | : | 20 |
| Airbus A300 - all models | | | | | | | | | | | | | | | 1,720.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.12 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 8 | | 3 | 2 | : | 4 | : | : | : | : | : | 6 | 29 | 26 | 69 | 118 | 151 | 150 | 122 | 100 | 150 |
| Airbus A310 - all models | | | | | | | | | | | | | | | 1,510.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.63 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 17 | | : | 20 | 1,180 | 2,802 | 95 | 794 | 751 | 427 | 597 | 1,027 | 1,881 | 1,466 | 93 | 155 | 168 | 93 | 301 | 64 | 20 |
| Airbus A318 - all models | | | | | | | | | | | | | | | 730.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | 617 | 1,642 | 8,205 | 12,125 | 11,126 | 12,077 | 8,520 | 4,657 | 4,799 | 5,599 | 4,593 | 6,606 | 6,403 | 5,607 | 5,322 | 2,252 | 3,227 | 3,685 | 2,844 |
| Airbus A319 - all models | | | | | | | | | | | | | | | 730.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 2,411 | | 5,487 | 7,475 | 7,251 | 9,459 | 9,756 | 13,080 | 8,116 | 5,839 | 5,745 | 4,323 | 5,402 | 4,231 | 3,221 | 3,802 | 2,190 | 1,618 | 1,900 | 1,496 | 2,226 |
| Airbus A320 - all models | | | | | | | | | | | | | | | 770.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 7,676 | | 4,742 | 6,105 | 12,724 | 22,094 | 26,508 | 27,128 | 28,618 | 24,704 | 28,771 | 34,013 | 39,078 | 40,042 | 35,754 | 42,739 | 46,253 | 22,325 | 27,023 | 40,008 | 49,358 |
| Airbus A321 - all models | | | | | | | | | | | | | | | 960.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1,752 | | 700 | 470 | 1,082 | 2,631 | 2,037 | 1,616 | 1,267 | 1,282 | 1,582 | 2,465 | 2,180 | 5,820 | 11,170 | 11,944 | 15,312 | 6,201 | 9,286 | 11,701 | 19,975 |
| Airbus A330 - all models | | | | | | | | | | | | | | | 2,230.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.13 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 32 | | : | 90 | 4 | : | : | : | : | : | 1 | 19 | 191 | 544 | 625 | 1,101 | 1,192 | 547 | 761 | 1,460 | 865 |
| Airbus A340 - all models | | | | | | | | | | | | | | | 2,020.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.39 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | 8 | : | 2 | : | 4 | 4 | : | : | : | 10 | 2 | 6 | 4 | : | : | : | 2 | : |
| Airbus A380 - all models | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other Airbus models | | | | | | | | | | | | | | | 1,333.75 | | | | | average of Airbus aircrafts listed here | | | 0.2 | | 0.15 | | average of Airbus aircrafts listed here | | 124 | | 152 | 90 | 164 | 180 | 112 | 44 | 10 | 12 | 8 | : | : | : | : | : | : | 12 | 2,214 | 12,553 | 14,515 |
| Antonov An-32 | | | | | | | | | | | | | | | 138.00 | | | | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | : | : | : | 2 | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other Antonov models | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | 611 | | 536 | 566 | 78 | : | 5 | : | 36 | : | 5 | 1 | : | 215 | 422 | 87 | 26 | 17 | 32 | 38 | 6 |
| BAe-Avroliner RJ 100 | | | | | | | | | | | | | | | 570.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 62 | | 141 | 385 | 2,256 | 2,750 | 1,454 | 285 | 990 | 72 | 488 | 1,121 | 306 | 94 | 7 | : | : | 2 | 17 | : | 1 |
| BAe-Avroliner RJ 85 | | | | | | | | | | | | | | | 600.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.13 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 13 | | 521 | 834 | 38 | 60 | 78 | 25 | 30 | 4 | : | : | 2 | : | 48 | : | 2 | 1 | : | : | : |
| Other Avroliner models | | | | | | | | | | | | | | | 600.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.13 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 62 | | 3 | 101 | : | : | 1 | 363 | : | : | : | : | : | : | : | : | : | : | : | 2 | : |
| BAe 146 - all models | | | | | | | | | | | | | | | 570.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 3,163 | | 3,643 | 1,559 | 267 | 1,124 | 999 | 958 | 577 | 162 | : | 12 | : | 8 | 24 | 2 | 24 | 2 | 2 | : | : |
| Other BAe models | | | | | | | | | | | | | | | 570.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 240 | | 3 | 823 | 1,113 | 894 | 758 | 108 | 154 | 13 | 26 | 24 | 9 | 12 | 9 | 15 | 17 | 1 | 27 | 14 | 8 |
| Boeing 717 - all models | | | | | | | | | | | | | | | 680.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.01 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 232 | | 468 | 1,028 | 65 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Boeing 727 - all models | | | | | | | | | | | | | | | 1,460.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.81 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | 4 | 3 | 2 | 2 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | 86 |
| Boeing 737 - all models | | | | | | | | | | | | | | | 870.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.45 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 34,231 | | 39,142 | 45,336 | 43,830 | 43,003 | 47,384 | 47,175 | 37,020 | 30,117 | 27,928 | 30,486 | 33,804 | 41,236 | 50,343 | 52,227 | 53,254 | 18,530 | 31,592 | 42,288 | 36,303 |
| Boeing 747 - all models | | | | | | | | | | | | | | | 3,510.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.27 | | 0.4 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 39 | | 12 | 1 | 4 | 4 | 7 | 4 | 2 | 20 | 27 | 86 | 8 | 5 | 14 | 4 | 12 | 18 | 7 | 10 | 5 |
| Boeing 757 - all models | | | | | | | | | | | | | | | 1,460.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.01 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 445 | | 385 | 417 | 493 | 703 | 673 | 614 | 926 | 524 | 508 | 490 | 506 | 469 | 439 | 346 | 331 | 377 | 471 | 387 | 361 |
| Boeing 767 - all models | | | | | | | | | | | | | | | 1,750.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.1 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 230 | | 352 | 361 | 1,080 | 1,481 | 721 | 700 | 467 | 42 | 36 | 14 | 28 | 193 | 198 | 255 | 249 | 108 | 10 | 66 | 6 |
| Boeing 777 - all models | | | | | | | | | | | | | | | 2,560.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.07 | | 0.3 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 58 | | 64 | 40 | 23 | 26 | 2 | 3 | : | : | : | : | 8 | 38 | 25 | 17 | 20 | 73 | : | 7 | 2 |
| Boeing MD-11 | | | | | | | | | | | | | | | 2,310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.24 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | 4 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Boeing MD-80 | | | | | | | | | | | | | | | 1,010.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 3,557 | | 3,353 | 7,233 | 7,102 | 3,366 | 387 | 542 | 502 | 150 | 44 | : | : | : | : | : | : | : | : | : | : |
| Boeing MD-81 | | | | | | | | | | | | | | | 1,010.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1,334 | | 1,394 | : | 1,667 | 31 | 52 | : | 8 | : | : | : | : | : | : | : | : | : | : | : | : |
| Boeing MD-82 | | | | | | | | | | | | | | | 1,010.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 28 | | 22 | 7 | 1,371 | 566 | 310 | 410 | 2 | : | 297 | 14 | : | : | : | 2 | 2 | : | : | 17 | 12 |
| Boeing MD-83 | | | | | | | | | | | | | | | 1,010.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 78 | | 4 | 15 | 67 | 190 | 296 | 470 | 159 | : | 478 | 75 | : | : | : | : | 1 | 2 | : | : | : |
| Boeing MD-87 | | | | | | | | | | | | | | | 1,010.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 99 | | : | : | : | 104 | 92 | : | 4 | : | : | : | : | : | : | : | : | : | : | : | : |
| Boeing MD-88 | | | | | | | | | | | | | | | 1,010.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.19 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Boeing MD-90 | | | | | | | | | | | | | | | 870.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.01 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 18 | | : | : | : | 2 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other Boeing models | | | | | | | | | | | | | | | 1,435.00 | | | | | average of Boeing aircrafts listed here | | | 0.21 | | 0.15 | | average of Boeing aircrafts listed here | | 7 | | 34 | 32 | 37 | 46 | 37 | 18 | : | : | : | : | 1 | : | 1 | 1 | 6 | 20 | 28 | 26 | 13 |
| Britten-Norman BN-2 | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | 3 | | : | : | 3 | : | : | : | : | : | : | 1 | : | : | : | : | : | 1 | : | : | : |
| Other Britten-Norman models | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Canadair CL-600 regional jet - all models | | | | | | | | | | | | | | | 330.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1,045 | | 3,681 | 4,249 | 5,723 | 6,133 | 6,849 | 5,816 | 5,814 | 4,538 | 4,191 | 2,932 | 1,641 | 2,061 | 1,259 | 2,240 | 3,441 | 1,115 | 1,745 | 1,577 | 1,782 |
| Other Canadair models | | | | | | | | | | | | | | | 330.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 593 | | 547 | 927 | 784 | 565 | 391 | 108 | 57 | 7 | 19 | 20 | 27 | 45 | 43 | 66 | 41 | 5 | 29 | 27 | 22 |
| De Havilland Canada Dash 8 - all models | | | | | | | | | | | | | | | 200.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 639 | | 1,084 | 1,766 | 1,763 | 1,575 | 1,520 | 2,269 | 2,962 | 2,437 | 1,783 | 1,291 | 1,063 | 1,357 | 1,659 | 1,529 | 2,020 | 397 | 404 | 234 | 116 |
| Other de Havilland models | | | | | | | | | | | | | | | 200.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 10 | | : | 12 | 21 | 4 | 862 | 476 | 56 | : | 51 | : | : | : | : | : | : | : | : | 1 | : |
| Dornier 328 | | | | | | | | | | | | | | | 280.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 10 | | : | 5 | 4 | 31 | 6 | 16 | 11 | 37 | 7 | 10 | : | 5 | 3 | 10 | 4 | 5 | 14 | 6 | 4 |
| Other Dornier models | | | | | | | | | | | | | | | 280.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 5 | | : | 4 | 3 | 18 | 65 | 4 | 3 | 15 | 47 | 30 | 3 | 39 | 5 | 32 | 5 | 12 | 11 | 17 | 3 |
| Douglas DC-10 - all models | | | | | | | | | | | | | | | 2,310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.24 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | 8 | : | 9 | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Douglas DC-8 - all models | | | | | | | | | | | | | | | 1,700.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.15 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | : | : | : | : | : | 1 | : | : | : | : | : | : | : | : | : | : | : |
| Douglas DC-9 - all models | | | | | | | | | | | | | | | 840.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.46 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 2 | | : | 4 | 29 | : | : | 22 | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other Douglas models | | | | | | | | | | | | | | | 2,310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.24 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 1 | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Embraer 120 | | | | | | | | | | | | | | | 310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 618 | | 1,061 | 1,627 | 216 | 2,000 | 1,797 | 1,680 | 2,109 | 1,739 | 1,072 | 969 | 138 | 0 | 24 | 19 | 41 | 17 | 30 | 49 | 449 |
| Embraer 135 | | | | | | | | | | | | | | | 310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 7 | | : | 2 | 2 | 26 | 16 | 14 | 11 | 3 | 1 | 2 | 34 | 25 | 2 | 1 | 4 | : | 3 | 22 | 10 |
| Embraer 145 | | | | | | | | | | | | | | | 310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 552 | | 1,838 | 6,172 | 4,638 | 367 | 785 | 944 | 84 | 105 | : | 4 | : | 152 | 172 | 400 | 337 | 82 | 2 | 4 | 4 |
| Embraer 170 | | | | | | | | | | | | | | | 310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 148 | | 460 | 870 | 715 | 767 | 422 | 1,284 | 843 | 542 | 290 | 1,677 | 1,728 | 1,981 | 492 | 429 | 251 | 68 | 168 | 395 | 513 |
| Other Embraer models | | | | | | | | | | | | | | | 310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.06 | | 0.03 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 625 | | 874 | 409 | 616 | 88 | 357 | 1,240 | 1,772 | 1,642 | 1,754 | 1,967 | 2,473 | 3,360 | 1,090 | 3,797 | 4,856 | 1,676 | 2,629 | 6,476 | 8,138 |
| Fokker 50 | | | | | | | | | | | | | | | 760.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | 2 | 3 | : | : | : | 4 | : | : | 284 | : | : | : | : | : | : | : | : | : |
| Fokker 70 | | | | | | | | | | | | | | | 760.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 2,365 | | 1,796 | 2,485 | 2,116 | 2,723 | 1,973 | 1,692 | 2,452 | 743 | 174 | 167 | 28 | 10 | : | : | : | : | : | : | : |
| Fokker 100 | | | | | | | | | | | | | | | 760.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 124 | | 1,647 | 3,368 | 4,075 | 3,708 | 4,060 | 2,196 | 2,205 | 3,344 | 3,552 | 1,209 | 1,330 | 865 | 192 | 23 | 3 | 1 | 13 | 2 | 5 |
| Other Fokker models | | | | | | | | | | | | | | | 760.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 0.14 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | 71 | 215 | 183 | 26 | 8 | 117 | 3 | : | : | : | : | : | : | : | : | : | : | : | : |
| Lockheed L-1011 TriStar | | | | | | | | | | | | | | | 2,310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 7.4 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other Lockheed models | | | | | | | | | | | | | | | 2,310.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 7.4 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 4 | | 3 | : | 1 | : | : | : | : | : | : | : | : | : | : | 6 | 2 | 2 | : | 1 | 3 |
| Saab 2000 | | | | | | | | | | | | | | | 153.00 | | | | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 4,454 | | 6,241 | 10,424 | 10,824 | 12,151 | 10,405 | 9,007 | 5,445 | 2,882 | 591 | : | : | : | 1 | 16 | : | : | 5 | 5 | 4 |
| Saab 340 | | | | | | | | | | | | | | | 75.10 | | | | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | | 0 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 6,107 | | 4,900 | 2,481 | 2,374 | 8 | 104 | 604 | 513 | 744 | 894 | 988 | 1,530 | 1,597 | 1,021 | 878 | 951 | 987 | 932 | 575 | 571 |
| Other Saab models | | | | | | | | | | | | | | | 153.00 | | | | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | | 0.03 | | 0.02 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 2 | | : | : | : | : | : | 352 | 146 | : | : | : | : | : | : | : | : | : | : | : | : |
| Tupolev Tu-134 | | | | | | | | | | | | | | | 930.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 1.8 | | 0.1 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | : | | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Tupolev Tu-154 | | | | | | | | | | | | | | | 1,890.00 | | | | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | | 1.32 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 260 | | 500 | 124 | : | 211 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other Tupolev models | | | | | | | | | | | | | | | 1,890.00 | | | | | EMEP/EEA GB 2019 Ch1A3a Annex excel file | | | 1.32 | | 0.2 | | 2006 IPCC Vol2 Ch3 Table 3.6.9 | | 38 | | 8 | : | : | 4 | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
| Other | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | 5,224 | | 2,040 | 2,914 | 3,710 | 5,067 | 7,946 | 7,345 | 6,452 | 3,557 | 2,719 | 1,629 | 1,352 | 999 | 456 | 1,297 | 2,500 | 1,428 | 4,328 | 4,742 | 6,547 |
| Unknown | | | | | | | | | | | | | | |  | | | | |  | | |  | |  | |  | | 2,894 | | 3,294 | 4,267 | 5,424 | 4,811 | 4,290 | 2,015 | 2,241 | 3,436 | 1,704 | 1,234 | 3,595 | 3,194 | 13,723 | 9,310 | 6,890 | 1,640 | 2,194 | 3,016 | 2,566 |
| Total aircraft | | | | | | | | | | | | | | | | | | | |  | | |  | |  | |  | | **89,200** | | **100,038** | **126,421** | **140,298** | **150,142** | **151,642** | **152,027** | **129,440** | **100,081** | **96,951** | **101,711** | **110,401** | **124,793** | **137,300** | **146,842** | **153,474** | **62,060** | **91,696** | **131,647** | **147,792** |
| Total fuel consumption LTO - international | | | | | | | | | | | | | | | | | | | | t fuel | | |  | |  | |  | | **54,374** | | **61,618** | **76,585** | **89,998** | **99,974** | **96,002** | **98,050** | **82,712** | **64,094** | **65,680** | **71,233** | **77,994** | **89,977** | **95,092** | **104,895** | **111,204** | **46,307** | **68,982** | **106,579** | **118,324** |
| Total CH4 emissions LTO - international | | | | | | | | | | | | | | | | | | | | kt CH4 | | |  | |  | |  | | **0.019** | | **0.022** | **0.026** | **0.027** | **0.028** | **0.027** | **0.027** | **0.022** | **0.018** | **0.017** | **0.018** | **0.021** | **0.024** | **0.028** | **0.029** | **0.030** | **0.011** | **0,019** | **0.027** | **0.026** |
| Total N2O emissions LTO - international | | | | | | | | | | | | | | | | | | | | kt N2O | | |  | |  | |  | | **0.006** | | **0.007** | **0.009** | **0.011** | **0.012** | **0.012** | **0.012** | **0.010** | **0.008** | **0.008** | **0.009** | **0.010** | **0.011** | **0.011** | **0.012** | **0.013** | **0.006** | **0,008** | **0.012** | **0.014** |
| EF CH4 LTO - international | | | | | | | | | | | | | | | | | | | | kg CH4/t fuel | | |  | |  | |  | | **0.352** | | **0.358** | **0.337** | **0.301** | **0.281** | **0.284** | **0.280** | **0.268** | **0.274** | **0.258** | **0.259** | **0.263** | **0.270** | **0.290** | **0.279** | **0.274** | **0.242** | **0,269** | **0.250** | **0.222** |
| EF N2O LTO - international | | | | | | | | | | | | | | | | | | | | kg N2O/t fuel | | | | |  | |  | | **0.118** | | **0.119** | **0.118** | **0.119** | **0.122** | **0.122** | **0.122** | **0.122** | **0.121** | **0.122** | **0.122** | **0.122** | **0.121** | **0.119** | **0.119** | **0.118** | **0.119** | **0.118** | **0.117** | **0.117** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  |  | |  | |  | |  | |