Product Environmental Aspects Declaration

EP and IJ printer (PCR number: AD-04)



No. AD-18-E979 Date of publication Jun./05/2018



http://www.brother-usa.com/

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Laser Printer HL-L6200DWT

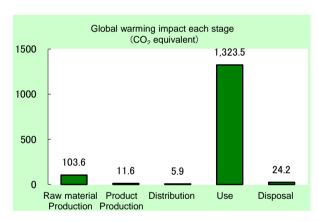
Specifications:

- Electrophotographic Printer (EP)
- Black & White
- Printing Speed: 46ppm (A4)
- · Maximum Printing Size: Legal
- Wireless 802.11b/g/n, Gigabit Ethernet, Hi-Speed USB 2.0
- Duplex Printing

The following data is calculated by assuming the product prints 1,269,600 sheets in 5-year usage period.

- < Main environmental impact in the product lifecycle >
- Energy consumption

- 25,300MJ
- Global warming impact (CO₂ equivalent)
- 1,468.8kg 2.29kg
- Acidification impact (SO₂ equivalent)



- Electric power consumption in 5 years of "Use stage" is 539kWh.
- The above data does not include the environmental impact of the paper that is used for printing.

Notes:

- 1. Original LCA data is available on PEIDS: Product Environmental Information Declaration Sheet, and Product Data Sheet.
- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PCR:Product Category Rule. Visit EcoLeaf website under JEMAI homepage at http://www.ecoleaf-jemai.jp/eng/ for details.
- 3. Basic Units used for calculations are based on Japan domestic data at this time, due to a lack of base data to establish localized Basic Unit for overseas locations adequately.
- 4. This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

[Supplemental environmental information]

The product assembly and main parts of toner and photoreceptor are produced at plants certified with ISO 14001. The product conforms to the International Energy Star Program.

PCR review was conducted by: PCR Deliberation Committee, January 01, 2008, Name of representative: Yohji Uchiyama, University of Tsukuba, Graduate School

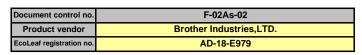
Independent verification of the label and data, according to ISO 14025 🗆 internal 🔳 external Third party verifier *: System auditor, Yasuo Koseki

Program operator: Japan Environmental Management Association for Industry Email: ecoleaf@jemai.or.jp

The EcoLeaf is an environmental labeling program that belongs to the ISO-Type III category.

^{*} In the case of a business entity certified as an Ecoleaf-data-collection system, the names of certification auditors are written.

Product Environmental Information Data Sheet (PEIDS)





| Unit Function DB version | v2.1 |
|------------------------------------|------|
| Characterization Factor DB version | v2.1 |

| PCR name | EP(Electrophotographic Printer) an | EP(Electrophotographic Printer) and IJ(Ink Jet) printer | | | HL-L62 | 200DWT | |
|----------|------------------------------------|---|-------|--------------|--------|-------------------|-------|
| PCR code | AD-04 | Product weight (kg) | 15.87 | Package (kg) | 8.29 | Weight total (kg) | 24.16 |

| In/Out | Life Cycle Stag | | | Production | | | Use | Disposition | Total | | |
|----------|--|-----------------------|----------------|---|------|--------------|----------|--------------|----------|-------------|----------|
| | item | าร | | | Unit | Raw material | Product | Distribution | Use | Disposition | Total |
| | | Er | oray C | Consumption | MJ | 2.04E+03 | 2.21E+02 | 7.90E+01 | 2.30E+04 | 2.54E+01 | 2.53E+04 |
| | | | lergy C | orisumption | Mcal | 4.86E+02 | 5.27E+01 | 1.89E+01 | 5.48E+03 | 6.08E+00 | 6.05E+03 |
| | | | ces | Coal | kg | 9.16E+00 | 1.42E+00 | 1.85E-04 | 9.94E+01 | 1.56E-01 | 1.10E+02 |
| | | | nosa | Crude oil (for fuel) | kg | 2.18E+01 | 1.73E+00 | 1.73E+00 | 2.15E+02 | 2.67E-01 | 2.40E+02 |
| | | | 797 | LNG | kg | 3.65E+00 | 7.32E-01 | 2.66E-02 | 4.32E+01 | 8.00E-02 | 4.77E+01 |
| | | | Ene | Uranium content of an ore | kg | 3.48E-04 | 9.59E-05 | 1.25E-08 | 4.53E-03 | 1.05E-05 | 4.98E-03 |
| | ou | | | Crude oil (for material) | kg | 9.80E+00 | 3.45E-03 | 0 | 9.51E+01 | 0 | 1.05E+02 |
| | ğ | တ္ | | Iron content of an ore | kg | 4.77E+00 | 0 | 0 | 3.28E+01 | 0 | 3.75E+01 |
| | E | ည | | Cu content of an ore | kg | 2.33E-01 | 0 | 0 | 7.37E-02 | 0 | 3.06E-01 |
| | Consumption | nc | | Al content of an ore | kg | 1.12E-01 | 0 | 0 | 2.06E+00 | 0 | 2.17E+00 |
| | Σ | eSc | S | Ni content of an ore | kg | 1.29E-02 | 0 | 0 | 2.19E-01 | 0 | 2.32E-01 |
| | 0 | 0 | 9.6 | C content of an ore | kg | 1.90E-02 | 0 | 0 | 3.08E-01 | 0 | 3.27E-01 |
| | č | ğ | no | Mn content of an ore | kg | 2.43E-02 | 0 | 0 | 2.08E-01 | 0 | 2.32E-01 |
| | o | ıst | resources | Pb content of an ore | kg | 1.02E-02 | 0 | 0 | 2.03E-03 | 0 | 1.23E-02 |
| | Resource | Exhaustible resources | <u> </u> | Sn content of an ore | kg | - | - | - | - | - | |
| | | X | Exha | Zn content of an ore | kg | 1.01E-01 | 0 | 0 | 2.00E-02 | 0 | 1.21E-01 |
| | Impact by | ш | | Au content of an ore | kg | - | - | - | - | - | |
| | gc | | | Ag content of an ore | kg | - | - | - | - | - | |
| es | ğ | | | Silica Sand | kg | 3.57E-01 | 0 | 0 | 5.53E-01 | 0 | 9.10E-01 |
| anaiyses | m I | | | Halite | kg | 2.01E+00 | 4.74E-05 | 0 | 9.53E+00 | 6.34E-03 | 1.15E+01 |
| jai | | | | Limestone | kg | 1.19E+00 | 3.07E-03 | 0 | 1.04E+01 | 2.25E-01 | 1.19E+01 |
| | | | | Natural soda ash | kg | 3.04E-02 | 0 | 0 | 1.90E-02 | 0 | 4.94E-02 |
| nventory | | | Name of Street | Wood | kg | 1.66E+01 | 8.53E-02 | 0 | 1.91E+02 | 0 | 2.08E+02 |
| ž | | | Personal | Water | kg | 9.05E+03 | 1.08E+03 | 1.39E-01 | 7.03E+04 | 1.32E+02 | 8.05E+04 |
| š | ent | | | CO2 | kg | 1.01E+02 | 1.16E+01 | 5.61E+00 | 1.30E+03 | 2.42E+01 | 1.44E+03 |
| 드 | me | | Φ | Sox | kg | 5.71E-02 | 8.56E-03 | 3.51E-03 | 7.91E-01 | 1.26E-02 | 8.73E-01 |
| | ē | | je | Nox | kg | 1.41E-01 | 7.58E-03 | 2.83E-02 | 1.82E+00 | 2.67E-02 | 2.02E+00 |
| | ِ آ | | | N2O | kg | 9.36E-03 | 2.91E-04 | 9.18E-04 | 8.33E-02 | 3.19E-05 | 9.39E-02 |
| | ē | | o O | CH4 | kg | 9.31E-04 | 2.57E-04 | 3.34E-08 | 1.21E-02 | 2.82E-05 | 1.33E-02 |
| | the state | | Ħ | CO | kg | 1.14E-02 | 1.71E-03 | 7.71E-03 | 2.56E-01 | 4.79E-03 | 2.81E-01 |
| | 9 | | 0 | NMVOC | kg | 1.82E-03 | 5.02E-04 | 6.55E-08 | 2.36E-02 | 5.52E-05 | 2.60E-02 |
| | Emission/Discharge to the environment | | - | СхНу | kg | 4.48E-03 | 7.51E-05 | 8.27E-04 | 4.22E-02 | 8.35E-05 | 4.77E-02 |
| | ha | | | Dust | kg | 1.32E-02 | 4.20E-04 | 2.67E-03 | 1.46E-01 | 1.51E-03 | 1.64E-01 |
| | isc | me: | ain | BOD | kg | - | - | - | - | - | |
| | 5 | Water system | o Water domain | COD | kg | - | - | - | - | - | |
| | Sion | ter: | ter | N total | kg | - | - | - | - | - | |
| | Jis | Wa | Wa | P total | kg | - | - | - | - | - | |
| | | 9 | | SS | kg | - | - | - | - | - | |
| | | | system | Unspecified Solid Waste | kg | 1.35E+00 | 1.08E-03 | 0 | 7.88E+01 | 7.94E+00 | 8.81E+01 |
| | gct | | sys | Slag | kg | 1.61E+00 | 0 | 0 | 1.00E+01 | 0 | 1.16E+01 |
| | Impact by | | Soil | Sludge | kg | 1.40E-01 | 0 | 0 | 4.36E+00 | 0 | 4.50E+00 |
| | 드 | | Q Q | Low level radio-active waste | kg | 2.44E-04 | 6.70E-05 | 8.74E-09 | 3.16E-03 | 7.35E-06 | 3.48E-03 |
| rent | esauce amplion | Exhaustib | le resources | Energy resources (crude oil equivalent) | kg | 3.49E+01 | 4.31E+00 | 1.76E+00 | 3.68E+02 | 5.50E-01 | 4.09E+02 |
| BSSIT | Sea Sea | | | Mineral resources (Iron ore equivalent) | kg | 7.12E+01 | 1.90E-03 | 0 | 2.80E+02 | 0 | 3.51E+02 |
| 988 | age to see the | to Atm | osphere | Global Warming (CO2 equivalent) | kg | 1.04E+02 | 1.16E+01 | 5.86E+00 | 1.32E+03 | 2.42E+01 | 1.47E+03 |
| act | 2 2 2 | | o Atmosphere A | Acidification (SO2 equivalent) | kg | 1.56E-01 | 1.39E-02 | 2.33E-02 | 2.06E+00 | 3.13E-02 | 2.29E+00 |
| Q. U. | D D D D D D D D D D D D D D D D D D D | | | | | | | | | | |

[Notes for readers: EcoLeaf common rules]

I. Stage related

- A. "Production" stage is intended for two sub-stages listed below.
- (1) "Raw material" production: consists of mining, transportation and raw material production.
- (2) "Product" production: consists of the parts processing, assembly and installation.
- B. "Distribution" stage is intended for transportation of produced product, Transportation of consumables and maintenance goods (e.g. replacement parts) for use of the product are included into "Use" stage.
- C. "Use" stage is intended for use of the product (active mode, standby mode, etc.) and production, transportation to disposal of consumables/maintenance goods (e.g. replacement parts)
- D. "Disposition" stage is intended for environmental impacts by product disposition.

II Inventory analyses

- A. Data of mineral ore on "Exhaustible resources" are presented in weight of pure ingredients (e.g. iron, aluminum) in the ore.
- B. Data on energy resources are presented based on origin in calorific value. e.g. Data on uranium ore presents weight of uranium concentrate, which is available for use as an atomic fuel. C. Data of discharge to water system are in actual figure (not calculated using unit function in inventory analyses).

Result of the "Impact analyses" is found in converting results of inventory analyses into total amount of a reference material (e.g. CO₂ in case of "Global Warming").

A. Impact "by resource consumption" represents magnitude of impacts to resource depletion.

B. Impact "by emission/discharge to environment" represents magnitude of impacts to Atmosphere, Water and Soil system

IV Data entry format

- A. Exponential notation, after the decimal point to two, should be used.
- B. Indicate "0" instead exponential notation, if the result of calculation or estimation is considered as "zero" or negligible in comparison to related results. C. Indicate " " if calculation nor estimation can not be done, in order to differentiate to indicate "zero".
- D. Row total of the data is automatically calculated, excluding a row includes " " item. Row total of such is presented as a blank (no data)

(BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.)

[Notes for readers: Target product specific]

- 1. Product weight includes the accessories as standard equipment, a toner cartridge and a drum unit. Packaging weight includes packaging material and appended goods (e.g., user's manual, other printed matter, polyethylene bags).
- 2. Production stage includes the production/distribution impact of the parts making up a machine and the initial set of a toner cartridge and a photo conductor, as well as the impact of product assembly.
- 3. Distribution stage's impact is calculated according to the PCR. The transportation distance of a product from an overseas factory to the port of Japan is based on actual distance.

The transportation distance in Japan uses 100 kmas average distance

4. Use stage's impact is calculated according to the PCR. It includes the impact of printing 1,269,600 sheets, calculated by supposing a user use a machine for 5 years.

It also includes the electricity consumption of a machine calculated based on 5-year use, supposing a month consists of 4 weeks, with weekly electricity consumption calculated by the TEC test procedure. The production, distribution, and disposal/recycle impact of the consumables used in those 5 years is also included.

The distribution impact of consumables is calculated under the same condition of products:

The transportation distance of consumables from an overseas factory to the port of Japan is based on actual distance. The transportation distance in Japan uses 100 km as average distance.

Since we have not collected consumables as a producer, which are newly introduced, they are assumed to be collected as general waste, crushed and separated as combustible/non-combustible material.

- This stage includes the incineration impact of combustible materials and the landfill impact of non-combustible materials of consumables 5. Disposal stage: Since we have not collected machines as a producer, they are assumed to be collected as general waste, crushed and separated as combustible/non-combustible material
- This stage includes the incineration impact of combustible materials and the landfill impact of non-combustible materials of machines.
- 6. Others: This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

Product data sheet

(Input data and parameters for LCA)

| | (input data and parameters for EGA) |
|--------------------------|-------------------------------------|
| Document control no. | F-03s-02 |
| Product vendor | Brother Industries,LTD. |
| EcoLEaf registration no. | AD-18-E979 |



| PCR name | EP and IJ printer(PCR ID:AD-04) | Product type | | | HL-L6200 | DWT | |
|-----------------------|---------------------------------|---------------------|-------|--------------|----------|-------------------|-------|
| LCA/LCIA in units of: | 1 | Product weight (kg) | 15.87 | Package (kg) | 8.29 | Weight total (kg) | 24.16 |

1. Product information (per unit): parts etc. by material and by process/assembly method

| | Br | eakdown of pr | imary materials | | | ch need to apply | Processing / Assembly Base U | nits (Parts B, C) |
|--------|---------------------|---------------|-------------------------|-------------|-------------------------------------|------------------|------------------------------|-------------------|
| | Material name | Weight (kg) | Material name | Weight (kg) | Process name | Weight (kg) | Process name | Weight (kg) |
| | Steel | 4.02E+00 | Semiconductor substrate | 9.14E-01 | Press molding:līon (kg) | 4.10E+00 | Parts assembly (kg) | 1.85E+00 |
| | Stainless steel | 8.13E-02 | Medium-sized motor | 5.38E-01 | Press molding:Nonferrous metal (kg) | 1.82E-02 | | |
| - | Aluminum | 6.16E-02 | Lubricants | 1.17E-02 | Injection molding (kg) | 1.06E+01 | | |
| roduct | Thermoplastic resin | 1.05E+01 | | | Glass molding (kg) | 9.21E-02 | | |
| 2 | Thermosetting resin | 3.01E-02 | | | | | | |
| _ | Rubber | 1.81E-01 | | | | | | |
| | Glass | 9.21E-02 | | | | | | |
| | Paper | 7.77E+00 | | | | | | |
| | Subtotal | 2.27E+01 | Subtotal | 1.46E+00 | | | | |
| | | Total | | | | 1.48E+01 | Subtotal | 1.85E+00 |

Note

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site.

SOx and NOx should be indicated in SO_2 , NO_2 equivalent.

| | Classification | Material | Energy | Energy | Energy | Energy | Energy | Energy | Energy |
|-------------|----------------|---------------------------|-------------------------------|------------------------------|-------------------------------------|------------------|-------------------------|---------------------|-------------------------|
| | Distribution | Corrugated cardboard (kg) | Electricity (kwh) | Diesel truck: 10 ton (kg.km) | Incineration: Industrial waste (kg) | LNG as fuel (kg) | Diesel oil as fuel (kg) | Heavy oil fuel (kg) | Freight by ship (kg.km) |
| <u>.</u> | Quantity | 3.66E-02 | 9.47E+00 | 1.37E+01 | 4.74E-02 | 2.07E-02 | 1.85E-02 | 4.86E-02 | 4.81E+02 |
| Consumption | Note | | | | | | | | |
| Inst | Classification | Material | Material | Energy | Energy | Material | | | |
| S | Distribution | Raw wood (foreign) (kg) | Low density polyethylene (kg) | LPG(NPG) as fuel (kg) | Diesel truck: 20 ton (kg.km) | PP (kg) | | | |
| | Quantity | 7.38E-03 | 1.14E-03 | 3.52E-02 | 7.07E+01 | 2.32E-03 | | | |
| | Note | | | | | | | | |
| arge | Classification | | | | | | | | |
| Disch | Distribution | | | | | | | | |
| /uois | Quantity | | | | | | | | |
| Emiss | Note | | | | | | | | |

Note

3. Distribution stage information (per unit): means, distance, loading ratio, consumptions and emissions/discharges.

| | Means of transportation | Diesel truck: 20 ton (kg.km) | Freight by ship (kg.km) |
|--------|-------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | Conditions | Mass (kg) | Distance (km) | Loading Ratio (%w) | Load (kg·km) | Mass (kg) | Distance (km) | Loading Ratio (%w) | Load (kg·km) |
| 8 | Quantity | 2.42E+01 | 7.00E+01 | 2.43E+01 | 6.97E+03 | 2.42E+01 | 3.50E+03 | 1.00E+02 | 8.45E+04 |
| Ē | Note | | | | | | | | |
| istrib | Means of transportation | Diesel truck: 10 ton (kg.km) | | | | |
| ĕ | Conditions | Mass (kg) | Distance (km) | Loading Ratio (%w) | Load (kg·km) | | | | |
| | Quantity | 2.42E+01 | 1.00E+02 | 2.42E+01 | 1.00E+04 | | | | |
| | Note | | | | | | | | |

Note

4. Use stage (per unit): use condition (mode, term) including active mode, standby mode and maintenance.

4.1 Product and accessories subject to this analysis

| | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ct to tilis alialysi | | | | | | |
|---------|----------------|---|---|---|---|---|---|--|---|
| | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption |
| | Distribution | Electricity (kwh) | Diesel truck: 20 ton (kg.km) | Freight by ship (kg.km) | Diesel truck: 10 ton (kg.km) | Cold-Rolled steel plate (kg) | Electroplated steel Plate (kg) | Stainless steel plate (kg) | Aluminum plate (kg) |
| | Quantity | 5.39E+02 | 6.90E+04 | 7.79E+05 | 9.85E+04 | 1.58E-01 | 3.08E+01 | 1.38E+00 | 1.92E+00 |
| | Note | Electricity consumption for 5 years | Distribution of consumables used in 5 years | Distribution of consumables used in 5 years | Distribution of consumables used in 5 years | | | | |
| | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption |
| | Distribution | Glass (kg) | High density polyethylene (kg) | Low density polyethylene (kg) | PP (kg) | PA66 (Polyamide 66) (kg) | PS (kg) | PBT(Poly Butylene Terephtalate) (kg) | Polycarbonate (kg) |
| | Quantity | 1.72E-01 | 2.30E-02 | 4.32E+00 | 3.45E+00 | 2.88E-02 | 3.76E+01 | 2.89E-02 | 3.57E+00 |
| | Note | | | | | | | | |
| | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption |
| | Distribution | PC-ABS(70/30)(kg) | POM(polyacetal) (kg) | ABS (kg) | AS resin (kg) | MMA resin (kg) | PET (kg) | Expandable soft polyurethane (for automobile) (kg) | Nitrile-butadiene rubber (NBR) (kg) |
| | Quantity | 5.00E-01 | 4.24E+00 | 5.39E+00 | 3.50E+01 | 2.52E-01 | 3.89E+00 | 1.82E+00 | 1.45E+00 |
| Product | Note | | | | | | | | |
| Š | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption |
| - | Distribution | Corrugated cardboard (kg) | Paper (Western style) | Assembled circuit board(kg) | Medium-sized motor (kg) | Press molding: Iron (kg) | Press molding:Norferrous metal (kg) | Injection molding (kg) | Glass molding (kg) |
| | Quantity | 8.46E+01 | 1.48E+00 | 1.81E-01 | 2.46E-01 | 3.23E+01 | 1.01E-01 | 6.65E+01 | 1.72E-01 |
| | Note | | | | | | | | |
| | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | Process |
| | Distribution | Parts assembly (kg) | Electricity (kwh) | Heavy oil fuel (kg) | Diesel oil as fuel (kg) | LPG(NPG) as fuel (kg) | LNG as fuel (kg) | Raw wood (foreign) (kg) | Incineration: Industrial waste (kg) |
| | Quantity | 1.16E+01 | 2.87E+02 | 1.93E+01 | 2.54E-01 | 4.83E-01 | 8.70E-01 | 3.10E-01 | 5.12E+00 |
| | Note | | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years |
| | Classification | Consumption | Consumption | Consumption | Consumption | Consumption | Consumption | | |
| | Distribution | Diesel truck: 20 ton (kg.km) | Freight by ship (kg.km) | Diesel truck: 10 ton (kg.km) | Corrugated cardboard (kg) | Low density polyethylene (kg) | PP (kg) | | |
| | Quantity | 2.97E+03 | 1.29E+05 | 5.47E+03 | 3.43E+00 | 4.55E-01 | 9.23E-01 | | |
| | Note | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | Production of consumables used in 5 years | | |
| | | | | | | | | | |

Note Electric power consumption in 5 years of "Use stage" is 539kWh.

4.2 Disposition/Recycle information on consumables and replacement parts

| 4.2 DIS | : disposition/Recycle information on consumables and replacement parts | | | | | | | | | | | |
|----------|--|-----------------------------|---------------------------|---------------------------|------------------------------|--|--|--|--|--|--|--|
| les | Classification | Consumption | Process | Process | Process | | | | | | | |
| Consumab | Distribution | Diesel truck: 4 ton (kg.km) | Shredding (kg) | Incineration to 1 andfill | Landfill: General waste (kg) | | | | | | | |
| | Quantity | 2.17E+04 | 1.23E+02 | 1.83E+02 | 4.00E+01 | | | | | | | |
| | Note | Consumables not collected | Consumables not collected | Consumables not collected | Consumables not collected | | | | | | | |

Note

5. Disposition/Recycle stage information (per product): process method and scenarios

| · - | Jope | Joillo III/100 | fore stage intern | iation (per produ | ot). process met | nou and sociian | - | | |
|-----|------|----------------|-----------------------------|------------------------|---------------------------|------------------------------|---|--|--|
| | 0 | Classification | Consumption | Process | Process | Process | | | |
| ari | = | Distribution | Diesel truck: 4 ton (kg.km) | Shredding (kg) | Incineration to 1 andfill | Landfill: General waste (kg) | | | |
| | cer | Quantity | 1.27E+03 | 1.08E+01 | 9.10E+00 | 4.00E+00 | | | |
| | S | Note | Machines not collected | Machines not collected | Machines not collected | Machines not collected | | | |

Note