# Product Environmental Aspects Declaration



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

No. AD-19-E1156 Date of publication June/25/2019

# **SHARP**

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## DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM MX-5071

· Making Technology: Electrophotographic Printer (EP)

· Print Speed: Full-color 50 prints/minute (A4)

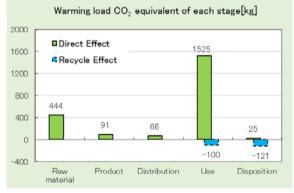
Maximum Paper Size: SRA3Duplex copying: Standard

Consumption and discharge in a life cycle	All the stage sum totals
Global Warming (CO <sub>2</sub> equivalent)	2,149kg (1,929kg)
Acidification (SO <sub>2</sub> equivalent)	3.2kg (2.8kg)
Energy Consumption	45,420MJ (40,421MJ)

※Figures in ( ) indicated environmental impact including recycle effect \*note3



Environmental Impacts are calculated as follows: Use stage: Printing 1,497,600 sheets in 5 years. The picture is attached with options. Environmental impact by copypaper is not included.



- $1. \ Original \ LCA \ data \ is \ available \ on \ PEIDS: \ Product \ Environmental \ Information \ Declaration \ Sheet, \ and \ Product \ Data \ Sheet.$
- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PSC: Product Specification Criteria. Visit EcoLeaf website under JEMAI homepage at http://www.ecoleaf-jemai.jp/eng/ for details.
- 3. Recycle Effect illustrates an indirect influence to other products/services.
- 4. 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.

# [Supplemental environmental information]

- · Certified Environmental Standards.
  - $\cdot$  International Energy Star Program, EPEAT (IEEE 1680.2) , EU RoHS,
- · Manufactured at ISO14001 certified factories.
- · Adopt biomass-based plastics (JBP No.134).

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

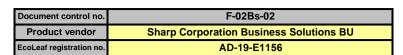
Independent verification of the declaration and data, according to ISO14025:2006 □internal ■external

Third party verifier \*: Kazuo Naito

Programme operator: Japan Environmental Management Association for Industry, ecoleaf@jemai.or.jp

<sup>\*</sup> In the case of an business entity certified as an Ecoleaf-data-collection system, the names of certification auditors are written.

# Product Environmental Information Data Sheet (PEIDS)





製品環境情報

PCR name	EP and IJ print	er	Product type		M	X-5071	
PCR code	AD-04	Product weight (kg)	90	Package (kg)	15	Weight total (kg)	105

				Life Cycle Stage		Produ	uction				Recycle
In/Ou	ut item	ns			Unit	Raw material	Product	Distribution	Use	Disposition	Effect
					MJ	7.95E+03	1.72E+03	8.76E+02	3.48E+04	7.65E+01	-5.00E+03
		Er	nergy C	Consumption	Mcal	1.90E+03	4.11E+02	2.09E+02	8.31E+03	1.83E+01	-1.19E+03
			8	Coal	kg	6.21E+01	1.14E+01	2.04E-03	1.52E+02	1.66E-01	-2.98E+01
			30 nic	Crude oil (for fuel)	ka	7.49E+01	1.33E+01	1.91E+01	2.78E+02	1.36E+00	-3.65E+01
			gy re	LNG	kg	1.47E+01	5.87E+00	2.95E-01	8.50E+01	1.02E-01	-2.94E+00
			Enel	Uranium content of an ore	kg	1.44E-03	7.68E-04	1.39E-07	8.66E-03	1.12E-05	-1.76E-04
	Ľ			Crude oil (for material)	kg	3.02E+01	8.61E-04	0	1.17E+02	0	-4.87E+01
	otic	S		Iron content of an ore	kg	4.75E+01	0	0	2.13E+01	0	-3.12E+01
	ш	Se		Cu content of an ore	kg	2.18E+00	0	0	7.75E-02	0	-3.92E-01
	Consumption	Ιχ		Al content of an ore	kg	9.49E-01	0	0	1.28E+00	0	-8.46E-01
	lo:	SSC	Ś	Ni content of an ore	kg	4.07E-01	0	0	7.33E-01	0	-6.35E-04
		9 16	S.	C content of an ore	kg	5.65E-01	0	0	1.00E+00	0	-1.16E-02
	Š	ple	no	Mn content of an ore	kg	2.88E-01	0	0	2.31E-01	0	-2.71E-02
	o	ısti	resources	Pb content of an ore	kg	9.73E-02	0	0	6.29E-03	0	-3.19E-02
	Resource	าลเ		Sn content of an ore	kg	0	0	0	0	0	0
	/ R	Exhaustible resources	Mineral	Zn content of an ore	kg	9.69E-01	0	0	6.19E-02	0	-3.13E-01
	by	ш	ij	Au content of an ore	kg	0	0	0	0	0	0
	act		~	Ag content of an ore	kg	0	0	0	0	0	0
SS	Impact			Silica Sand	kg	3.33E+00	0	0	1.47E+00	0	-1.19E+00
anaiyses	드			Halite	kg	2.42E+01	7.55E-04	0	5.90E+00	4.44E-02	-1.74E+01
na				Limestone	kg	1.00E+01	0	0	6.07E+00	5.50E-01	-5.54E+00
			-	Natural soda ash	kg	2.86E-01	0	0	1.39E-01	0	-1.01E-01 0
ō			-	Wood	kg	2.08E+01	8.73E+03	1.55E+00	6.25E+01	1.39E+02	-3.89E+03
nventory				Water	kg	3.26E+04	9.01E+01		1.06E+05 1.49E+03		
Ž	ent			CO2	kg	4.34E+02 2.81E-01	6.80E-02	6.23E+01 3.03E-02	1.49E+03 1.02E+00	2.45E+01 1.53E-02	-2.13E+02 -1.19E-01
_	Ě		ē	Sox Nox	kg	5.10E-01	5.68E-02	1.65E-02	1.02E+00 1.70E+00	7.78E-02	-1.19E-01 -3.27E-01
	iro		ģ	N2O	kg kg	3.67E-02	1.65E-03	1.23E-02	1.29E-01	1.11E-04	-2.80E-02
	- Na		dsc	CH4	kg	3.84E-03	2.05E-03	3.71E-07	2.31E-02	3.01E-05	-4.57E-04
	)e		Atmosphere	CO	kg	5.93E-02	1.33E-02	1.72E-02	2.70E-01	2.40E-02	-2.84E-02
	o #		¥	NMVOC	kg	7.51E-03	4.02E-03	7.26E-07	4.53E-02	5.89E-05	-8.96E-04
	Je t		9	CxHv	kg	1.79E-02	4.42E-04	6.85E-03	4.64E-02	1.11E-03	-1.39E-02
	ıarç			Dust	kg	5.87E-02	3.19E-03	1.88E-02	1.41E-01	4.83E-03	-4.47E-02
	Emission/Discharge to the environment	Ε	.⊑	BOD	kg	-	-	-	-	-	-
	/Di	system	o Water domain	COD	kg	-	-	-	-	-	-
	ion	er s)	er de	N total	kg	-	-	-	-	-	-
	iss	to Water	Nate	P total	kg	-	-	-	-	-	-
	Ш	0	10	SS	kg	-	-	-	-	-	-
			m <sub>e</sub>	Unspecified Solid Waste	kg	3.65E+00	2.14E-03	0	1.64E+02	5.08E+01	-1.26E+00
	Impact by		system	Slag	kg	1.61E+01	0	0	7.12E+00	0	-9.79E+00
	пра		Soil	Sludge	kg	1.08E+00	0	0	2.75E+00	0	-1.81E+00
	드		\$	Low level radio-active waste	kg	1.01E-03	5.36E-04	9.68E-08	6.04E-03	7.85E-06	-1.24E-04
ent	by Resour ce	Exha	e resou rces	Energy resources (crude oil equivalent)	kg	1.44E+02	3.39E+01	1.95E+01	5.49E+02	1.68E+00	-6.06E+01
Sme	Res	ПS	. S 5	Mineral resources (Iron ore equivalent)	kg	8.66E+02	4.74E-04	0	6.93E+02	0	-1.80E+02
ess	`		эне	Global Warming (CO2 equivalent)	kg	4.44E+02	9.05E+01	6.56E+01	1.52E+03	2.46E+01	-2.20E+02
ass	sion ge to ment		dso	Acidification (SO2 equivalent)	kg	6.37E-01	1.08E-01	1.46E-01	2.21E+00	6.97E-02	-3.48E-01
ct	by Emission / Discharge to environment		to Atmosphere	-	-	-	-	-	-	-	-
Impact assessment	by Dis		\$	-	-	-	-	-	-	-	-
드			-	-	-	-	-	-	-	-	-

[Notes for readers: EcoLeaf common rules]

- 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/recycle of consumables/maintenance goods (e.g. replacement parts).
- D. "Disposition/Recycle" stage is intended for environmental impacts by product disposition/recycle, and deduction by recycling (e.g. impact reduction of raw material production).
- E. "Recycle Effect" illustrates an indirect environmental influences to other products/services by use of reclaimed materials/parts, and/or by supply of used products to other businesses for material reclaim/parts reuse. Case 1: Use of reclaimed materials/parts: Sum of increase of environmental impact by collection activities of used materials/parts, and decrease by volume reduction of used materials/parts. Case 2: Supply of used products to other businesses for material reclaim/parts reuse: Sum of increase of environmental impact by materials/parts reclaiming process, and decrease by volume reduction of new materials/parts production

## 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. CO<sub>2</sub> 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.

- 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".

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

# **Product data sheet**

	(Input data and parameters for LCA)
Document control no.	F-03s-02
Product vendor	Sharp Corporation Business Solutions BU
EcoLEaf registration no.	AD-19-E1156



PCR name	EP and IJ printer	Product type			MX-507	71	
LCA/LCIA in units of:	1	Product weight (kg)	90	Package (kg)	15	Weight total (kg)	105

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

	Bre	eakdown of p	rimary materials		Math breakdown of parts, which	ch need to apply	Processing / Assembly Base Ur	nits (Parts B, C)
	Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
	Normal steel	3.97E+01	paper	5.94E+00	Press molding:līron (kg)	3.89E+01	Parts assembly (kg)	1.04E+02
	Stainless steel	2.57E+00	semiconductor substrates	3.32E+00	Press molding:Nonferrous metal (kg)	1.95E+01		
-	aluminum	4.77E-01	wood	8.15E+00	Injection molding (kg)	3.49E+01		
oduct	other metals	2.41E+00	Medium-sized motor (kg)	5.05E+00	Glass molding (kg)	2.43E+00		
	thermoplastic resins	3.48E+01	Ink (kg)	4.50E-03				
<u> </u>	thermosetting resins	5.98E-04						
	rubber	1.31E-01						
	glass	2.43E+00						
	Subtotal	8.25E+01	Subtotal	2.25E+01				
		Total		1.05E+02	Subtotal	9.58E+01	Subtotal	1.04E+02

Note Toners included to the "Use stage".

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

 ${\rm SOx}$  and  ${\rm NOx}$  should be indicated in  ${\rm SO_2},\,{\rm NO_2}$  equivalent.

lo	Classification	Energy	Energy	Energy	Energy	Material	Material	Material	
apt I	Distribution	Electricity (kWh)	Diesel oil as fuel (kg)	Heavy oil as fuel (kg)	Furnace LNG (kg)	Clean water (kg)	Acetone (kg)	Methanol(CH3OH) (kg)	
Insu	Quantity	6.68E+01	1.31E-01	3.44E-01	9.56E-02	1.30E+02	8.61E-04	1.54E-01	
Con	Note								
arge	Classification	Discharge							
Disch	Distribution	Sewage processing (kg)							
sion/	Quantity	1.30E+02							
Emis	Note								

Note

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

	Means of transportation	Diesel truck: 10 ton (kg·km)	Diesel truck: 10 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck: 10 ton (kg·km)	Freight by ship (kg·km)	Freight by ship (kg·km)	Freight by ship (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)
e .	Quantity	1.05E+02	3.00E+01	1.00E+02	3.15E+03	1.05E+02	1.10E+04	1.00E+02	1.16E+06
outi	Note								
Distrib	Means of transportation	Diesel truck: 10 ton (kg·km)	Diesel truck: 10 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:2 ton (kg·km)	Diesel truck:2 ton (kg·km)	Diesel truck:2 ton (kg·km)	Diesel truck:2 ton (kg·km)
ĕ	Conditions	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)	Mass(kg)	Distance (km)	Loading Ratio(%w)	Load(kg·km)
	Quantity	1.05E+02	7.00E+01	1.00E+02	7.35E+03	1.05E+02	3.00E+01	4.20E+01	7.50E+03
	Note								

Note The shipping distance of the products unloaded from a ship is set to 100km.

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

	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Cold-Rolled steel plate (kg)	Electroplated steel Plate (kg)	Stainless steel plate (kg)	Copper plate (kg)	Aluminum plate (kg)	Glass (kg)	High density polyethylene (kg)	Low density polyethylene (kg)
	Quantity	1.26E+01	6.44E+00	4.64E+00	9.74E-02	1.21E+00	1.55E+00	7.35E-01	1.89E+00
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Polypropylene (kg)	Polystyrene (kg)	Polycarbonate (kg)	Polycarbonate-ABS (70/30) (kg)	POM(polyacetal) (kg)	ABS (kg)	MMA resin (kg)	PET (kg)
	Quantity	8.08E-02	5.80E+01	1.61E+00	2.18E+00	2.21E+00	1.21E+00	6.69E+01	6.48E-01
	Note								
	Classification	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption	Consumption
	Distribution	Expandable soft polyurethane(for automobile) (kg)	Acrylic Nitrile (kg)	Nitrile-butadiene rubber(NBR) (kg)	Styrene-butadiene rubber(SBR) (kg)	Butadiene rubber (BR) (kg)	Methanol(CH3OH) (kg)	Corrugated cardboard (kg)	Paper(Western style) (kg)
	Quantity	3.85E-01	2.72E-02	8.50E-03	1.20E-01	1.74E-02	1.49E-02	2.93E+01	7.78E-02
Product	Note								
roc	Classification	Consumption	Condition	Consumption	Consumption	Consumption	Consumption	Consumption	Condition
_	Distribution	Assembled circuit board (kg)	Diesel truck: 10 ton (kg·km)	Ink (kg)	Press molding:Iron (kg)	Press molding:Nonferrous metal (kg)	Injection molding (kg)	Parts assembly (kg)	Freight by ship (kg·km
	Quantity	3.48E-01	5.93E+03	5.35E+00	1.33E+01	3.53E+01	6.91E+01	1.18E+02	2.17E+06
	Note								
	Classification	Energy	Material	Material	Energy	Condition	Material	Energy	Consumption
	Distribution	Electricity (kWh)	Clean water (kg)	Heavy oil as fuel (kg)	Furnace LNG (kg)	Diesel truck:10 ton (kg·km)	Acetone (kg)	Diesel oil as fuel (kg)	Electricity (kWh)
	Quantity	1.24E+03	4.55E+02	1.20E+00	3.35E-01	1.38E+04	3.00E-03	2.40E-01	7.44E+02
	Note								
	Classification	Condition							
	Distribution	Diesel truck:2 ton (kg·km)							
	Quantity	1.48E+04							
	Note								

Note According to PCR provision, Environmental Impacts are calculated from the use stage of printing 1,497,600 sheets in 5 years.

4.2 DIS	position/Re	cycle informatio	n on consumable	es and replacem	ent parts				
	Classification	Discharge	Process	Process	Process	Process	Process	Process	Process
	Distribution	Sewage processing (kg)	Incineration: Industrial waste (kg)	Landfill:Industrial waste (kg)	Incineration to landfill(as ash) (kg)	Landfill:General waste (kg)	Shredding (kg)	Sorting:Iron(by magnetic force) (kg)	Sixting Northmas metalby eddy current with enrichment (kg)
	Quantity	4.56E+02	1.47E+01	4.00E-01	1.47E+01	1.24E+02	4.39E+01	4.39E+01	3.49E+01
	Note								
les	Classification	Process	Process	Process	Process	Process	Deduction	Deduction	Deduction
Consumables	Distribution	Sorting Plantice(by relative density difference in water) (kg)	Recycle:fö cold-rolled steel (kg)	Recycle:to copper plate (kg)	Recycle:fö Aluminum plate (kg)	Recycle:to Thermoplastic pellet (kg)	Cold-Rolled steel plate (kg)	Copper plate (kg)	Aluminum plate (kg)
l Ing	Quantity	3.42E+01	9.00E+00	1.00E-01	6.00E-01	3.42E+01	9.00E+00	1.00E-01	6.00E-01
į	Note								
	Classification	Deduction	Condition	Condition	Condition				
	Distribution	Polystyrene (kg)	Diesel truck:2 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck: 4 ton (kg·km)				
	Quantity	3.42E+01	8.86E+03	4.73E+04	1.48E+04				
	Note								

Note The values above are calculated based on a performance based recycling scenario.

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

	Classification	Process	Process	Process	Process	Process	Process	Process	Process
	Distribution	Incineration: Industrial waste (kg)	Landfill:thdustrial waste (kg)	Incineration to landfill(as ash) (kg)	Landfill:General waste (kg)	Shredding (kg)	Sorting Ston(by magnetic force) (kg)	Sorting Northman metalby eathy current with world locar, (kg)	Sorting Plantice(by relative density difference in water) (kg)
	Quantity	7.10E+00	4.30E+00	7.10E+00	4.54E+01	4.11E+01	4.11E+01	2.00E+01	1.74E+01
	Note								
	Classification	Process	Process	Process	Process	Process	Deduction	Deduction	Deduction
nario	Distribution	Recycle:to cold-rolled steel (kg)	Recycle:to copper plate (kg)	Recycle:tō Aluminum plate (kg)	Recycle:tō Glass (kg)	Recycle:to Thermoplastic pellet (kg)	Cold-Rolled steel plate (kg)	Copper plate (kg)	Aluminum plate (kg)
cen	Quantity	2.11E+01	1.20E+00	2.00E-01	1.20E+00	1.74E+01	2.11E+01	1.20E+00	2.00E-01
S	Note								
	Classification	Deduction	Deduction	Condition	Condition	Condition			
	Distribution	Glass (kg)	Polycarbonate-ABS (70/30) (kg)	Diesel truck:2 ton (kg·km)	Diesel truck:10 ton (kg·km)	Diesel truck:4 ton (kg·km)			
	Quantity	1.20E+00	1.74E+01	7.50E+03	2.05E+04	6.25E+03			
	Note								

Note The values above are calculated based on a performance based recycling scenario.

## 6. Others

The following basic units are used in this LCA.
The sources of these basic units are provided in the Eco Leaf Environmental Label LCI Common Basic Unit(V2.1.)
URL: http://www.ecoleaf-jemaijp/application/data/basicunit\_en20150601.pdf

1	Material Production(Metal)	Base Unit Name Cold-Rolled steel plate	Unit kø
2	†	Electroplated steel Plate	kg kg
6	†	Stainless steel plate	kg
7	†	Copper plate	
8	1	Aluminum plate	kg ka
9	†	Zinc	kg
	Material Production(Inorganic Chemistry)		kg
16	Material Production(Synthetic Resin)	Glass	kg
26	material Production(Synthetic Resin)	High density polyethylene	kg
27	+	Low density polyethylene	kg
28	1	Polypropylene	kg
29	1	Polystyrene	kg
31	-	PBT	kg
32	+	Polycarbonate	kg
33	1	Polycarbonate-ABS (70/30)	kg
34		POM (polyacetal)	kg
36		ABS	kg
38	1	MMA resin	kg
39		PA66 (Polyamide 66)	kg
40		PET	kg
43		Expandable soft polyurethane	kg
46	]	Acrylic Nitrile	kg
47	1	Phenol resin (PF)	kg
48	Material Production(Rubber)	Nitrile-butadiene rubber (NBR)	kg
49	1	Styrene-butadiene rubber (SBR)	kg
50	†	Natural rubber	kg
51	†	Butadiene rubber (BR)	kg
55	Material Production(Organic Chemistry)	Methanol (CH3OH)	kg
62	†	Acetone	kg
67	Material Production(Wood and Paper)	Corrugated cardboard	- I.
69	1	Paper (Western style)	kg
71	+		kg
	+	Wood chip (imported)	kg
72	Material Production(General)	Raw wood (imported)	kg
76	Material Production(General)	Assembled circuit board	kg
78		Medium-sized motor	kg
83	parts Production(Others)	Ink	kg
85	Processing	Press molding: Iron	kg
86	-	Press molding: Nonferrous metal	kg
87	1	Injection molding	kg
89		Glass molding	kg
90	Assembly	Parts assembly	kg
91	Distribution	Diesel truck: 2 ton	kg.km
92	1	Diesel truck: 4 ton	kg.km
93	1	Diesel truck: 10 ton	kg.km
97		Freight by ship	kg.km
99	Electricity and Fuel	Electricity	kWh
100		Heavy oil as fuel	kg
101	1	Diesel oil as fuel	kg
109	1	Furnace LNG	kg
126	Utility (Water)	Clean water	kg
129	Disposition and Recycle (Crushing and Sorting)	Shredding	kg
130	1	Sorting: Iron	kg
131	†	Sorting: Nonferrous metal	kg
132	†	Sorting: Plastics	
	Disposition and Recycle (Incineration and Landfill)		kg
133	Sisposition and neoyole (Incineration and Landill)	Incineration to landfill (as ash)	kg
134	+	Incineration: Industrial waste	kg
136	-	Landfill: General waste	kg
137		Landfill: Industrial waste	kg
138	Disposition and Recycle (Recovery)	Recycle: to cold-rolled steel	kg
139	1	Recycle: to copper plate	kg
140	1	Recycle: to Aluminum plate	kg
141		Recycle: to Thermoplastic pellet	kg
	1	Recycle: to Glass	kg
145		riceyole, to didee	