



## **Notes on the statistical methodology of other waste subject to control (sc-statistic)**

### **1. Compulsory reporting**

Since the Ordinance on the Movements of Waste (OMW) came into force on 1 January 2006 the receipt and forwarding of other waste subject to control must be reported once a year. These reports allow the authorities, for example, to check that the waste has been forwarded only to licensed facilities and that the maximum permitted storage quantity has not been exceeded. The data also makes possible a statistical overview of the quantities involved and the treatment used.

### **2. Compilation of the data**

The data on other waste subject to mandatory control received or forwarded within the country is recorded manually by the disposal facilities on [veva-online.ch](http://veva-online.ch) (*sc-waste declarations*). The data has to be recorded on [veva-online.ch](http://veva-online.ch) 30 working days after the end of the calendar year (Art. 12 Para. 3 OMW). The data on the exported and imported waste subject to control is based on the movement documents that the exporter or importer submits to the Swiss Customs Office (*customs declarations*). This data is summarized by the FOEN on [veva-online.ch](http://veva-online.ch) and is the basis for the Waste Statistics on Export and Import for other waste subject to mandatory control.

### **3. Review of the data**

The data is checked at the end of the operating year by the responsible cantonal authority. The cantons use the statistics from [veva-online](http://veva-online.ch) to check the completeness and accuracy of the declarations. For example, the disposal procedure and process code are compared with those on the disposal licence.

### **4. Evaluation of the statistics on other waste subject to mandatory control**

The LMW lists 26 other waste subject to control (Appendix 1). The disposal of other waste subject to control is described in terms of specific disposal procedures i.e. processes (Appendix 2). These processes are linked with the disposal operations covered in Appendix 2 of the LMW (Appendix 3).

The shipping documents list only the disposal operations covered by the Basel Convention. When import and export statistics are evaluated, the disposal operations covered in Appendix 2 of the LMW are traced and then the processes inferred from the connection

matrix. The last step is to group the processes into the four disposal routes of landfill, incineration, chemical-physical / biological treatment and recycling (See Point 5).

For the domestic waste statistics the actual treatment of the waste after forwarding is included. If received waste is forwarded without treatment or is treated in several facilities, these quantities are recorded several times. The first step is to remove the double entries by including only processes that have a final treatment. These processes are then grouped into the four waste routes of landfill, incineration, chemical-physical / biological treatment and recycling (See Point 5). The domestic declarations for other waste subject to control also include treated waste from abroad. The last step in calculating the actual quantity of treated other waste subject to control from Switzerland is to subtract the quantity of imported waste.

## 5. Grouping of the processes

In order to summarize the waste statistics for other waste subject to control, the processes are grouped under four headings: landfill, incineration, chemical-physical / biological treatment and recycling.

Disposal procedures	Processes	Comments
Landfill	10xx	
Incineration	20xx	
Chemical-physical / biological treatment	5021	
Recycling		
• Waste wood	6011	
• Used tyres	6012, 6022	
• Used vehicles	3022	
• Electrical and electronic appliances	3014, 3025	Domestic: Data from system operators (SENS, SWICO, SRLS)
• Components from electrical and electronic appliances	,	Domestic: No information. The data are captured more than once because of multi-stage treatment processes. It is not possible to identify the whole material flow.
• Cables	3014, 3025	
• Reclaimed asphalt	6013, 3012, 3013	Domestic: Reutilisation quota of 100% for the processes 3012 and 3013
• Excavated material	6013, 3012, 3013	Domestic: Reutilisation quota of 60% for the processes 3012 and 3013
• Construction site waste	6013, 3012, 3013	Domestic: Reutilisation quota of 90% for the processes 3012 and 3013
• Used cooking oils and fats	5011, 6015	
• Scrap metal debris and vehicle sweepings	No information	Scrap metal debris and vehicle sweepings were subjected to control in 2010. There are currently no reliable data available.

## Appendix 1: Extract from the List of Waste (Appendix 1 LMW)

### **Waste wood**

- 03 01 04 Waste wood containing dangerous substances (problematic waste wood)
- 03 01 98 Waste wood that does not include wood defined under 03 01 04 or 03 01 98 (used wood)
- 15 01 03 Wooden packaging (used wood)
- 17 02 97 Used wood from building sites, demolitions sites, and renovation or conversion projects
- 17 02 98 Waste wood containing dangerous substances (problematic waste wood)
- 19 12 06 Waste wood containing dangerous substances (problematic waste wood)
- 19 12 98 Waste wood that does not fall under 19 12 06 or 19 12 98 (used wood)
- 20 01 37 Waste wood containing dangerous substances (problematic waste wood)
- 20 01 98 Waste wood that does not fall under 20 01 37 or 20 01 38 (used wood)

### **Used tyres**

- 16 01 03 Used tyres

### **Used vehicles**

- 16 01 04 Used vehicles
- 16 01 06 Used vehicles containing neither liquids nor other dangerous components

### **Electrical and electronic appliances and cables**

- 16 02 11 Used appliances containing partially or fully halogenated fluorochlorinated hydrocarbons (CFCs)
- 16 02 13 Used appliances that do not fall under 16 02 09 to 16 02 12 or 20 01 21
- 16 02 97 Electronic components removed from used appliances except those that fall under 16 02 15
- 16 02 98 Used cables
- 17 04 11 Used cables that do not fall under 17 04 10

**Waste from construction sites**

- 17 03 01 Reclaimed asphalt that has more than 5'000 and up to a maximum of 20'000 mg/kg PAH in the binding agent
- 17 05 96 Strongly contaminated excavation material
- 17 05 97 Polluted excavation material, overburden material and excavated rock
- 17 05 98 Polluted track excavation material
- 17 09 04 Mixed waste from construction sites and other polluted waste from construction sites
- 19 12 96 Fine material remaining after construction waste sorting

**Used cooking oils and fats**

- 19 08 09 Fat and oil mixtures from grease extractors that contain only cooking oils and fats
- 20 01 25 Cooking oils and fats that do not come from public collection sites

**Scrap metal debris and vehicle sweepings**

- 19 10 98 Scrap metal debris and vehicle sweepings

## Appendix 2: Specific disposal procedures (processes) for certain types of waste

### **Waste wood**

- 2011 Incineration in a municipal solid waste incinerator (MSWI)
- 2032 Incineration in a waste wood furnace
- 2041 Incineration in a cement plant
- 6011 Production of derived timber products
- 7011 Interim storage of transport containers (transport containers are not emptied)
- 7032 Assembly and interim storage (without sorting)
- 3011 Sorting
- 3022 Shredding
- 3023 Shredding with a mobile facility

### **Used tyres**

- 2011 Incineration in a municipal solid waste incinerator (MSWI)
- 2041 Incineration in a cement plant
- 6012 Manufacture of rubber products
- 6022 Retreading
- 6023 Selecting grooved tyres for further use
- 7011 Interim storage of transport containers (transport containers are not emptied)
- 7032 Assembly and interim storage (without sorting)
- 3011 Sorting
- 3024 Shredding and/or pulverisation
- 3023 Shredding with a mobile facility

### **Used vehicles**

- 7031 Interim storage (vehicles are not compressed)
- 3015 Draining, de-polluting and/or dismantling
- 3022 Shredding

### **Electrical and electronic appliances and cables**

- 6021 Repair
- 7011 Interim storage of transport containers (transport containers are not emptied)
- 7032 Assembly and interim storage (without sorting)
- 3011 Sorting
- 3014 Dismantling
- 3025 Breaking up and separating

### **Construction site waste**

- 1011 Deposit in an inert material landfill
- 1031 Deposit in a bioreactor landfill
- 2011 Incineration in a municipal solid waste incinerator (MSWI)
- 2041 Incineration in a cement plant
- 3043 Washing, thermal treatment
- 5021 Aerobic biological treatment
- 6013 Manufacture of construction materials from recycled minerals
- 7011 Interim storage of transport containers (transport containers are not emptied)
- 7032 Merging of waste and interim storage (without sorting)
- 3012 Construction waste processing or sorting of bulky construction waste with a stationary facility
- 3013 Construction waste processing or sorting of bulky construction waste with a mobile facility

### **Used cooking oils and fats**

- 2011 Incineration in a municipal solid waste incinerator (MSWI)
- 2031 Incineration in an industrial furnace
- 2041 Incineration in a cement plant
- 5011 Fermentation in a biogas facility, ARA etc.
- 5021 Aerobic biological treatment
- 6015 Manufacture of bio-diesel, animal foodstuffs etc.
- 7011 Interim storage of transport containers (transport containers are not emptied)
- 7021 Combination of waste and interim storage
- 3041 Dehydration and filtering with a stationary facility
- 3042 Dehydration and filtering with a mobile facility

### **Scrap metal debris and vehicle sweepings**

- 7011 Interim storage of transport containers (transport containers are not emptied)
- 7032 Merging of waste and interim storage (without sorting)
- 3011 Sorting

### Appendix 3: Linking the specific disposal procedures (processes) with the disposal procedures listed in Appendix 2 of the LMW

#### Waste wood

R101	Reutilisation in a municipal solid waste incinerator (MSWI)	2011	Incineration in a municipal solid waste incinerator (MSWI)
R103	Reutilisation in an industrial furnace	2032	Incineration in a used wood furnace
R104	Reutilisation in a cement plant	2041	Incineration in a cement plant
R3	Reutilisation/recovery of organic materials that cannot be used as solvents	6011	Manufacture of derived timber products
R151	Interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (packaging is not emptied)	7011	Interim storage of transport containers (transport containers are not emptied)
R152	Merging of waste, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is emptied)	7032	Merging of waste and interim storage (without sorting)
R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (the waste is thus changed so that, for example, partial amounts are removed or characteristics of the waste are altered).	3011	Sorting
		3022	Shredding
R160	Treatment with a mobile facility (reutilisation procedure)	3023	Shredding with a mobile facility

#### Used tyres

R101	Reutilisation in a municipal solid waste incinerator (MSWI)	2011	Incineration in a municipal solid waste incinerator (MSWI)
R104	Reutilisation in a cement plant	2041	Incineration in a cement plant
R3	Reutilisation/recovery of organic materials not for use as solvents	6012	Manufacture of rubber products
		6022	Retreading
		6023	Selection of grooved tyres for re-use
R151	Interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (packaging is not emptied)	7011	Interim storage of transport containers (transport containers are not emptied)

R152	Merging, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is emptied)	7032	Merging and interim storage (without sorting)
R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (the waste is thus changed, for example, partial amounts are removed or characteristics of the waste are altered)	3011	Sorting
		3024	Shredding and/or pulverisation
R160	Treatment with a mobile facility (reutilisation procedure)	3023	Shredding with a mobile facility

### Used vehicles

R152	Merging, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is emptied)	7031	Interim storage (vehicles are not compressed)
R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B. (the waste is thus changed, for example, partial amounts are removed or characteristics of the waste are altered)	3015	Drainage, de-pollution and/or dismantling
		3022	Shredding

### Electrical and electronic appliances and cables

R4	Reutilisation/recovery of metals and metal compounds	6021	Repair
R151	Interim storage and forwarding of waste to subject it to one of the procedures listed in Part B (packaging is not emptied)	7011	Interim storage of transport containers (transport containers are not emptied)
R152	Merging, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is emptied)	7032	Merging and interim storage (without sorting)



R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (the waste is thus changed, for example, partial amounts are removed or characteristics of the waste are altered)	3011	Sorting
		3014	Dismantling
		3025	Crushing and separation

### Construction site waste

D1	Deposits in or on the ground (i.e. landfills etc.)	1011	Deposit in an inert material landfill
		1031	Deposit in a bioreactor landfill
D8	Biological treatment that is not listed elsewhere in this list through which final compounds or mixtures arise which are disposed of using one of the procedures listed in Part A	5021	Aerobic biological treatment
D9	Chemical/physical treatment that is not listed elsewhere on this list through which final compounds or mixtures arise which are disposed of using one of the procedures listed in Part A (e.g. evaporation, drying, calcination etc.)	3043	Washing, thermal treatment
R101	Reutilisation in a municipal solid waste incinerator (MSWI)	2011	Incineration in a municipal solid waste incinerator (MSWI)
R104	Reutilisation in a cement plant	2041	Incineration in a cement plant
R5	Reutilisation /recovery of other inorganic materials	6013	Manufacture of construction materials from recycled minerals
R151	Interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (packaging is not emptied)	7011	Interim storage of transport containers (transport containers are not emptied)
R152	Merging, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is not emptied)	7032	Merging and interim storage (without sorting)
R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (the waste is thus changed, for example, partial amounts are removed or characteristics of the waste are altered)	3012	Construction waste reconditioning or bulky construction waste sorting with a stationary facility
R160	Treatment with a mobile facility (reutilisation procedure)	3013	Construction waste reconditioning or bulky construction waste sorting with a mobile facility

### Used cooking oils and fats

R101	Reutilisation in a municipal solid waste incinerator (MSWI)	2011	Incineration in a municipal solid waste incinerator (MSWI)
R103	Reutilisation in an industrial furnace	2031	Incineration in an industrial furnace
R104	Reutilisation in a cement plant	2041	Incineration in a cement plant
R3	Reutilisation /recovery of organic materials that cannot be used as solvents	5011 6015	Fermentation in a biogas plant, ARA, etc. Manufacture of bio-diesel, animal foodstuffs, etc.
R151	Interim storage and forwarding of waste to subject it to one of the procedures listed in Part B (packaging is not emptied)	7011	Interim storage of packaging
R152	Merging, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is emptied)	7021	Combining and interim storage
R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (the waste is thus changed, for example, partial amounts are removed or characteristics of the waste are altered)	3041	Dehydration and filtering with a stationary facility
R160	Treatment with a mobile facility (reutilisation procedure)	3042	Dehydration and filtering with a mobile facility
D8	Biological treatment that is not listed elsewhere in this Appendix through which final compounds or mixtures arise that are disposed of using one of the procedures listed in Part A.	5021	Aerobic biological treatment

**Scrap iron debris and vehicle sweepings**

R151	Interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (packaging is not emptied)	7011	Interim storage of transport containers (transport containers are not emptied)
R152	Merging, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (no reconditioning, packaging is emptied)	7032	Merging and interim storage (without sorting)
R153	Sorting, merging, reconditioning, interim storage and forwarding of the waste to subject it to one of the procedures listed in Part B (the waste is thus changed, for example, partial amounts are removed or characteristics of the waste are altered)	3011	Sorting