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## Converting to the Standard Recycling

 RateUse this worksheet to calculate a recycling rate based on the standard equation. The standard recycling rate incorporates standard definitions of municipal solid waste (MSW) and recycling in addition to the following universal equation:

| Municipal Solid Waste <br> Recycling Rate (\%) |
| :---: |
|  |
|  |
| $($ MSW |$\frac{\text { Total MSW Recycled }}{$|  Total MSW Gencled + MSW Disposed Of)  |
| :---: |}$\quad \times 100$

This worksheet will help you subtract from your current recycling rate those waste management activities and waste materials that are outside the scope of the standard recycling rate. In addition, those waste materials and recycling activities not included in your current rate, but included in the standard rate and for which you have data, can be added using this worksheet.

## How You Will Use The Information Obtained:

After converting to the standard recycling rate, you will be able to make consistent comparisons of your recycling efforts and the efforts of others.

## Who Should Use This Worksheet:

State and local governments that currently have a recycling measurement system in place and have previously calculated a recycling rate.

## What You Will Need:

- A list of the types of solid waste and recyclables included in your current recycling rate.
- Your definitions of the following terms:
- Municipal Solid Waste
- Recyclable materials (e.g., yard trimmings, tires, ferrous metal)

Recycling
Standard definitions of the above terms from the Glossary (found on page 49 of the Guide).
Scope of Materials Included in the Standard MSW Recycling Rate table (Table A, found on page 11 of the Guide).

Scope of Activities Included in the Standard MSW Recycling Rate table (Table B, found on page 13 of the Guide).

## Important Tips:

$\boldsymbol{\sim}$ In order to be consistent with the standard recycling rate, only solid waste defined as municipal solid waste in the attached Scope of MSW table can be included when calculating the amount of waste disposed of and recycled.
$\checkmark$ Only MSW recycled according to the waste management activities outlined in the attached Scope of MSW Recycling table can be included when calculating the amount of waste recycled.

## Converting to the Standard Recycling Rate

## I. Calculating Waste Disposal

IA. Using the Scope of MSW table and the definition of MSW found in the Glossary, determine if there are any waste materials not included in your current recycling rate. Add those waste materials for which you have current disposal data and that are defined as MSW in the standard recycling rate. Enter the amount disposed of for these wastes below. Remember, add materials only if you already have current disposal data available.

| ADDITIONAL MSW | AMOUNT DISPOSED OF (tons) |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
| TOTAL ADDITIONAL MSW (tons) |  |

IB. Only MSW can be included in the standard recycling rate. The wastes listed in the table below are excluded from the definition of MSW in the standard recycling rate. Using your most recent data on waste disposal, fill in the annual amount disposed of for each excluded waste included in your current recycling rate. Refer to the Glossary and Scope of MSW table for further clarification of the terms used here. If you are unable to disaggregate these excluded wastes from your current data, use Worksheet B2, Part 3, to estimate the total amount of MSW generated.

| IB. <br> MATERIALS EXCLUDED FROM MSW | ANNUAL AMOUNT <br> DISPOSED OF (tons) |
| :--- | :--- |
| Abatement Debris |  |
| Agricultural Waste |  |
| Asphalt |  |
| Batteries From Aircraft, Military Vehicles, Boats, Heavy-Duty Trucks, and Tractors |  |
| Combustion Ash |  |
| Concrete |  |
| Construction and Demolition Debris (C\&D) |  |
| Contaminated Soil |  |
| Ferrous Metals From Transportation Equipment and C\&D projects |  |
| Food Processing Waste |  |
| Glass From Transportation Equipment and C\&D Projects |  |
| Industrial Sludges |  |


| IB. <br> MATERIALS EXCLUDED FROM MSW | ANNUAL AMOUNT <br> DISPOSED OF (tons) |
| :--- | :--- |
| Mining Waste |  |
| Municipal Sludges |  |
| Natural Disaster Debris |  |
| Nonferrous Metals From Industrial or Construction Sources |  |
| Oil and Gas Waste |  |
| Plastics From Transportation Equipment |  |
| Preconsumer Waste |  |
| Used Oil |  |
| Wood From C\&D Activities |  |
| TOTAL EXCLUDED WASTES (tons) |  |

IC. Total MSW Disposed Of

| Total Waste Disposed Of (based on your most recent data) | Total Additional MSW (from 1A) | Total Excluded Wastes (from 1B) | Motal MSW Disposed Of (tons) |
| :---: | :---: | :---: | :---: |

## 2. Calculating Recycling

2A. Using the Scope of MSW Recycling table, determine if there are recycling activities that can be added to your current recycling rate. If you have current data for a recycling activity listed in the table, and it is not included in your current rate, specify the type and amount of material recycled below. Remember, add materials only if you already have current recycling data available.

| 2A. <br> RECYCLABLE MATERIAL | TOTAL (tons) |
| :--- | :--- |
| Commingled Materials |  |
| Food Waste |  |
| Glass Containers: |  |
| Clear |  |
| Amber |  |
| Green |  |
| Mixed Glass |  |
| Other Glass |  |
| Subtotal Glass |  |
| Lead-Acid Batteries |  |


| 2A. <br> RECYCLABLE MATERIAL | TOTAL (tons) |
| :---: | :---: |
| Metals: |  |
| Aluminum Cans |  |
| Tin/Steel Cans |  |
| Major Appliances |  |
| Other Ferrous |  |
| Other Nonferrous |  |
| Mixed Metals |  |
| Subtotal Metals |  |
| Paper: |  |
| Old Magazines |  |
| Old Newspaper |  |
| Old Corrugated Containers |  |
| Office Papers |  |
| Telephone Directories |  |
| Mixed Paper |  |
| Other Paper |  |
| Subtotal Paper |  |
| Plastic: |  |
| PETE |  |
| HDPE |  |
| PVC |  |
| LDPE |  |
| PP |  |
| PS |  |
| Mixed Plastic |  |
| Other Plastic |  |
| Subtotal Plastic |  |
| Textiles |  |
| Tires |  |
| Wood: |  |
| Wood Packaging |  |
| Other Wood |  |
| Subtotal Wood |  |

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| 2A. <br> RECYCLABLE MATERIAL | TOTAL (tons) |
| :--- | :--- |
| Yard Trimmings: |  |
| Brush and Branches |  |
| Grass |  |
| Leaves |  |
| Tree Stumps |  |
| Mixed Yard Trimmings |  |
| Subtotal Yard Trimmings |  |
| Other Recyclables: |  |
|  |  |
|  |  |
| Subtotal Other Recyclables |  |
| TOTAL (tons) |  |

2B. The waste management activities listed in the table below are excluded from the standard recycling rate. For each excluded activity included in your current recycling rate, fill in the annual amount of waste recovered in your state or locality according to that method. Use your most recent data. Refer to the Glossary and Scope of MSW Recycling table for further clarification of the terms used here.

| ACTIVITIES EXCLUDED FROM THE <br> STANDARD RECYCLING RATE | AMOUNT RECOVERED (TONS) |
| :--- | :--- |
| Alternative Daily Landfill Cover |  |
| Backyard Composting of Yard Trimmings and Food Waste |  |
| Combustion |  |
| Grasscycling |  |
| Mulching of Tree Stumps From C\&D Debris |  |
| Recycling of Materials Excluded From MSW (from 1B) |  |
| Reuse (see Scope of MSW Recycling table) |  |
| Source Reduction |  |
| TOTAL (tons) |  |

2C. Total MSW Recycled

|  | + |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Total Waste Recycled <br> (based on your most <br> recent data)Total <br> Additional Recycling <br> (from 2A)Total <br> Excluded Amount <br> (from 2B) |  | MSW Recycled <br> (tons) |  |

3. Calculating a Standard Recycling Rate

3A. MSW Recycling Rate (\%)


