

Definition of the Service

Revenue received for the provision of waste management and remediation services

- Market Provision of Services
 - Employers
 - Non-employers
- Government Provision of Services
 - Cost of services (expenses as proxy for revenue)
 - Employment



2007 Size Data

Type	Estabs.	Employment	Revenue
Employers	22,202	393,179	\$76,924,944,000
Non-Employers	20,866	N/A	\$ 1,677,620,000
Government	N/A	249,847	N/A
Total	??	664,000?	\$78,602,564,000 +



Additional Data Collected

- **Economic Census**
 - Class of customer breakdown
 - Value of exported services
 - Employment/payroll
 - Value of employer benefits
 - Franchise status
- **Service Annual Survey**
 - Operating expenses (personnel costs, expensed materials and supplies, expensed purchased services, other expenses)
 - e-commerce revenue



Census Collection Practices

- Single survey form covers multiple NAICS industries
- Industry assigned by respondent based on kind-of-business (kb) activity inquiries
- Common product list collected across many (but not all) industries
- Both sections (kb and product) of the survey form are considered
- Resulting data tabulated at 2, 3, 4, 5, and 6 digit levels of NAICS



Other Practices

- Service Annual Survey (SAS) uses industry group specific forms including product lines but no KBs
- SAS sample augmentation for births
- SAS benchmarked to Economic Census
- Quarterly Services Survey (QSS) subset of SAS
- QSS benchmarked to SAS
- SAS – mandatory
- QSS – voluntary



Additional Details Collected in 2007 and Later

- **Business Expenses** – In Census years, the SAS program collects 20 expense groupings, including estimates for expenditures on cost of purchased software; cost of purchased repair and maintenance services, cost of data processing and purchased computer services; and cost of rental and lease payments.



Iterative Process

Revenue and Product Details

- 1997 – 10 sources of revenue below the industry included on a single form for all waste management and remediation (Pre-NAPCS)
- 2002 – Over 80 detailed NAPCS products included on the waste management and remediation services questionnaire
- 2007 – Separate questionnaires for waste management services and remediation services – detailed products about the same but tailored to particular types of businesses



Example Product Collection

- Split between residential and non-residential waste, recyclable materials, and both when presorted for both hazardous and non-hazardous
 - Specific request for receipts for subcontract work
- Detail for document and file destruction services
- Detail for event waste management receipts
- Snow plowing receipts
- Waste management facility maintenance receipts split between closed, open, and separate closure services
- Disposal tipping fees for hazardous and non-hazardous waste
- Full questionnaires available at http://bhs.econ.census.gov/ec07/CEN_2007FORMS.html



Categories of Hazardous Waste

- Organic solvents
- Oils, greases, and residues
- Inorganic sludge
- Heavy metal solutions
- Pesticides, herbicides, and fungicides
- Polychlorinated biphenyls (PCBs)
- Biological infectious waste
- Radioactive waste
- Used tires
- Used batteries
- Other hazardous waste

Categories of hazardous waste will differ among countries based on specific regulations



Other Services Collected

- Sale or brokerage of waste materials
- Sale or brokerage of recycled materials
- Sale of new or used waste management equipment
- Rental and leasing fees received for waste management equipment
- Waste to energy receipts
- Environmental consulting services
- Other waste management consulting services



Product Distribution by Industry (1)

Distribution of Nonhazardous Waste Collection Services (non-residential) by Industry

Industry	Establishments	Value (\$ approx)	Percent
• 562111	4,842	11,643,308,000	97.5%
• 562112	79	111,145,000	1.0%
• 562211	66	58,253,000	0.5%
• 562212	135	99,825,000	0.8%
• 562219	17	<u>32,909,000</u>	<u>0.2%</u>
		11,945,440,000	100%



Product Distribution by Industry (2)

Distribution of Site Remediation Services by Industry

Industry	Establishments	Value (\$ approx)	Percent
• 562111	34	48,976,000	0.95%
• 562112	82	22,135,000	0.43%
• 562119	36	10,018,000	0.20%
• 56221X	44	61,416,000	1.19%
• 562910	1,919	4,923,662,000	95.00%
• 562290	18	442,000	0.01%
• 56299X	121	<u>114,845,000</u>	<u>2.22%</u>
		5,181,494,000	100%



Comparability of Price and Product Data

Limited areas that there is equal coverage:

Covered

3811/562111

Not Covered

3700/221320

3812/562112

3821/562212, 562213, 562219

3822/562211

3830/562920

3900/562910, 562991, 562998

However, the one comparable area covers almost 48 percent of the total market activity.



Additional Work

Detail important missing products in NAPCS
– particularly related to increased detail for
recyclable materials

Implement system changes to allow a single
product number across all industries



Questions?

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