WasteCap Wisconsin, working with the Jansen Group, tracked the recycling rates of five construction projects that were managed by personal trained in recycling by through the WasteCap C&D Training Program. The Jansen Group has experience in construction and demolition (C & D) recycling and would like to make recycling construction waste a company wide policy. The study followed and documented results for five projects. The overall recycling results and cost savings are listed below:

Recycling Rates For All Jansen Projects

Project	Recycling Volume (yd^3)	Recycling Weight (tons)	Trash Volume (yd^3)	Trash Weight (tons)
Girl Scout Camp	0	0	390.0	57.56
Beck's Mini Mart	40.0	15.67	236.0	17.11
Mason Temple	263.25	134.51	402.0	73.77
St. Anthony's Church	1,883.8	1,004.86	828.0	102.07
Grafton Police Dept	316.7	132.16	660.0	81.23
Total	**2,503.78**	**1,287.19**	**2,516.00**	**331.74**
All Jansen Projects	**By Volume**	**By Weight**		
% Recycled	**49.88%**	**79.51%**		

Recycling Cost Savings For All Jansen Projects

Project	Cost if All Trash	Recycling Cost	Savings By Recycling
Girl Scout Camp	$2,586	$3,185	-$599
Beck's Mini Mart	$2,043	$3,015	-$972
Mason Temple	$8,007	$5,181	$2,826
St. Anthony's Church	$36,469	$2,580	$33,889
Grafton Police Dept	$9,500	$6,845	$2,655
Total	**$58,605**	**$20,806**	**$37,799**

At the end of the 12-month study period, the **overall recycling rate by weight was 79.51% by weight and 49.88% by volume**. Approximately **1,287 tons of material was kept out of Wisconsin landfills.** The Jansen Group **saved over $37,800** by reusing and recycling. The remainder of this report lists individual project descriptions, comments and recycling rates.

Project 1- Girl Scout Camp East Troy, WI

This project involved the substantial remodeling and additions to two buildings at Camp Alice Chester. The two buildings are about 300 yards apart on this large site. During a mid project site visit, two 30-yard trash containers were located at each building. No recycling containers (except for cans and bottles) were at the site. One load of demolition concrete and miscellaneous wood for burning was unofficially removed from the site but is not included in the recycling results. The site superintendent was skeptical of recycling at this site due to its remote location and the hauler not making timely pick-ups.—as a result this project was not a good recycling candidate.

Project Concerns:

- Recycling was not in Contract
- Small Project
- Rural Location

Table 1 **Girl Scout Camp** East Troy, WI

Material	Volume (yd^3)	Weight (tons)
Asphalt	0	0
Concrete	0	0
Cardboard	0	0
Commingled	0	0
Metal	0	0
Reused/ Salvaged	0	0
Wood	0	0
Total Recycled	**0**	**0**
Trash	**390**	**57.56**
% Recycled	**0%**	**0%**

Project 2- Beck's Mini Mart Saukville, WI

This project involved the new construction of a masonry building with steel framed roof and the demolition of the existing small gas station/ convenience store. During a mid project site visit, one 30-yard trash container, and one 12-yard concrete dumpster were on site. The project manager was doing his best to recycle on this project but was hindered by the lack of a secure site (dumpers were often contaminated by locals); and the need to relocate dumpsters often due to small site and short construction schedule. This project almost achieved a 50% recycling rate by weight due to the large amount of concrete/ masonry recycled. A higher rate would have been achieved if the recycled asphalt from the parking lot and metal from the existing building were recorded.

Project Concerns:

- Marginal Commitment to Recycling
- Recycling was not in Contract
- Non Secure Site
- Dumpster Signage
- No Documentation
- Small Project
- Short Construction Period

Table 2 **Beck's Mini Mart** Saukville, WI

Material	Volume (yd^3)	Weight (tons)
Asphalt	0	0
Concrete	20	14.31
Cardboard	20	1.36
Commingled	0	0
Metal	0	0
Reused/ Salvaged	0	0
Wood	0	0
Total Recycled	**40**	**15.67**
Trash	**236**	**17.11**
% Recycled	**14.49%**	**47.80%**

Project 3- Mason Temple Milwaukee, WI

This project involved the new construction of a masonry with metal roof building. The site superintendent was very committed to recycling and recycling was written into the contract. During a mid project site visit, there were separate 30-yard dumpsters for wood and trash, a 20-yard for concrete, and a 2-yard commingled. Due to a limited amount of metal, a neighborhood recycler hauled metal from the site (included in recycling results). This project used dumpster logs to verify the records of the hauler. This project was a good demonstration of how C & D waste can be reused or recycled instead of landfilled.

Strategy for Success:

- Commitment to Recycling
- Recycling in Contract
- Secure Site
- Dumpster Signage
- Good Documentation
- Mid Sized Project
- Long Construction Period

Table 3 **Mason Temple** Milwaukee, WI

Material	Volume (yd^3)	Weight (tons)
Asphalt	0	0
Concrete	180	126.91
Cardboard	20	1.30
Commingled	2	.05
Metal	1.25	.15
Reused/ Salvaged	0	0
Wood	60	6.10
Total Recycled	**263.25**	**134.51**
Trash	**402**	**73.77**
% Recycled	**38.57%**	**64.58%**

Project 4- St. Anthony's Church Menomonee Falls, WI

This project involved the interior demolition of an historic church and the addition of new space on two sides. The site superintendent was extremely committed to recycling. During a mid project site visit, there were separate dumpsters for trash, metal, wood, and concrete This project used dumpster logs to verify the records of the hauler. There was a large amount of salvaged material on this project (included in recycling results). Stone from the original building was salvaged and reused in the new construction. All of the existing wood pews and timber beams were salvaged. The concrete and asphalt from the parking lot was reused which helped to achieve a 90% by weight and 70% by volume recycling rate. This project was an excellent demonstration of how C & D waste can be reused or recycled instead of landfilled.

Strategy for Success:

- High Commitment to Recycling
- Recycling in Contract
- Secure Site
- Dumpster Signage
- Good Documentation
- Large Project
- Long Construction Period
- Large Amount of Salvaged Materials
- Large Amount of Reused Stone

Asphalt & concrete recycled

Table 4 **St. Anthony's Church** Menomonee Falls, WI

Material	Volume (yd^3)	Weight (tons)
Asphalt	835	584.50
Concrete	429	214.50
Cardboard	0	0
Commingled	0	0
Metal	46.02	12.89
Reused/ Salvaged	502.80	179.15
Wood	71	13.92
Total Recycled	**1,883.82**	**1,004.86**
Trash	**828**	**102.07**
% Recycled	**69.47%**	**90.78%**

Project 5- Grafton Police Department Grafton, WI

This project involved the interior remodeling and two additions to an existing building. The site superintendent was extremely committed to recycling. There were no site visits to this project. Telephone conversations with the site superintendent confirmed that there were separate dumpsters for trash, wood, concrete, and cardboard. This project used dumpster logs to verify the records of the hauler. There was a fair amount of salvaged material on this project (included in recycling results). Wood doors and cabinets were salvaged for reuse. A large amount of metal was hauled from the site and recycled. This project was a good demonstration of how C & D waste can be reused or recycled instead of landfilled.

Strategy for Success:

- Commitment to Recycling
- Secure Site
- Dumpster Signage
- Good Documentation
- Reasonable Construction Period
- Large Amount of Salvaged Materials
- Asphalt and concrete was Recycled

Table 5 **Grafton Police Dept.** Grafton, WI

Material	Volume (yd^3)	Weight (tons)
Asphalt	28	19.60
Concrete	120.0	87.25
Cardboard	40.0	1.75
Commingled	0	0
Metal	98.24	11.88
Reused/ Salvaged	30.47	11.68
Wood	0	0
Total Recycled	**316.71**	**132.16**
Trash	**660.0**	**81.23**
% Recycled	**32.43%**	**61.93%**