Iowa Deconstruction & Recycling Inventory

Part One: State Summary of Building Deconstruction & Recycling








Released April 2011

Rethink. Reuse. Recycle.

DISMANTLING FOR REUSE

OCTOBER 2010

State Building Deconstruction & Recycling Inventory Project

Iowa Workforce Development

Purpose of the Inventory

In December 2009, Iowa Workforce Development (IWD) was awarded the State Labor Market Information Improvement Grant. A portion of this grant is dedicated to the need for a building deconstruction and building material recycling inventory for Iowa.

Building deconstruction is the dismantling of a structure in an effort to reuse or recycle valuable materials for use in other buildings or products. Building deconstruction preserves resources and prevents usable materials from being sent to landfills.

As part of this effort IWD began to compile an inventory of buildings that are scheduled for demolition throughout the state.

We contacted 981 city and state government employers to assist in entering building information on-line in order to compile this important inventory.

As of September 2010, employers have entered 166 buildings into the database that are in need of deconstruction. The results are included in this publication.

In addition, Community Colleges and other training centers have been contacted to provide input regarding their current curriculum and suggestions for future development of programs and provide students with the hands on training they need.







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Letter to Planning & Zoning



An inventory is essential to identification of available buildings

Chester J. Culver, Governor

Patty Judge, Lt. Governor

Elisabeth Buck, Director

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Dear Planning & Zoning Professional,

In December 2009, Iowa Workforce Development (IWD) was awarded the State Labor Market Information Improvement Grant. A portion of this grant is dedicated to the need for building deconstruction and building material recycling in Iowa. Building deconstruction is the dismantling of a structure in an effort to reuse or recycle valuable materials for use in other buildings or products. Building deconstruction preserves resources and prevents usable materials from being sent to landfills.

IWD is working closely with Iowa Central Community College in Fort Dodge to develop curriculum in building deconstruction. As part of this effort we are trying to compile an inventory of buildings that are scheduled for demolition throughout the state. We are asking for assistance in putting this important inventory together.

These buildings will provide students with the hands on training they need and may be a way for your community or county to dramatically reduce the cost of building removal.

The following list illustrates the type of building information we are looking for, but we welcome any information you are able to provide:

- Address
- Date Built
- Type of Building
- Building Use
- Date Scheduled for Demolition
- Size of Building
- Number of Stories
- Lien

Please click on the link below to enter your community or county's buildings scheduled for demolition.

Building Deconstruction Inventory Entry Form

If you have any questions or need assistance please contact Ryan Murphy at Iowa Workforce Development (ryan.murphy@iwd.iowa.gov, 515-281-7505).

Thank you

Ryan Murphy
Iowa Workforce Development
1000 East Grand Ave.
Des Moines, Iowa 50319-0209

1000 E Grand Avenue • Des Moines, IA 50319 • 515-281-5387 • 800-562-4692 • www.iowaworkforce.orgEqual Opportunity Employer/Program Auxiliary aids and services upon request to individuals with disabilities.

On-Line Survey Instrument

Address:

Street Number	Street Name	City	State	ZIP Code
			IA	

Please answer the following regarding construction and size of the building.

	Year of Construction	Size of Building (square feet)	Number of Stories	Is there a lien on the building?
Building Information:			Select:	Select:

Who owns this property?

- ○ Private
- ○ Public
- ○ Unknown

Type of Building:

- ○ Assembly - Churches, Restuarants, Theatres, Stadiums
- ○ Business - Banks, Dr. Office
- ○ Educational - Schools, Day Care Center
- ○ Factory - Non-hazardous
- ○ Government - City Hall, Police Station, Community Center
- ○ High-Hazard - involving production of very flammable or toxic materials
- ○ Institutional - Hospitals, Prisons, possibly Industrial
- ○ Mercantile - Grocery Stores, Department Stores, Gas Stations
- ○ Residential - Houses, Apartment Buildings, Hotels, Motels
- ○ Storage - Warehouses, Parking Garages
- ○ Utility & Miscellaneous - Water Towers, Barns, Towers
- ○ Unknown

Utility Providers:

	Utility Provider
Electricity	
Gas	
Water	

Please answer the following regarding the demolition/deconstruction of this building.

	Estimated date of demolition/deconstruction: (MM/DD/YYYY)	Reason for demolition/deconstruction.	Will any materials be salvaged/recycled from the demolition/deconstruction?	Does your city/county have a waiting period before demolition/deconstruction that promotes opportunities for salvaging/recycling?
Demolition/Deconstruction Information:			Select:	Select:

Other important information regarding this building:

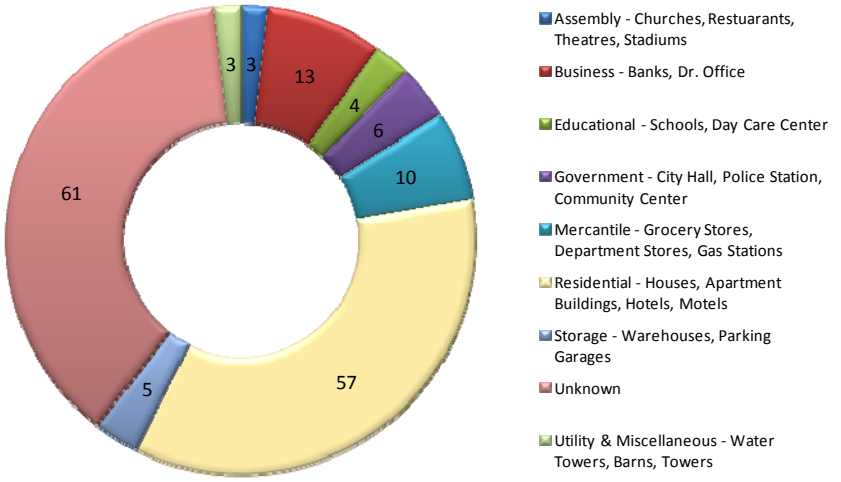
Contact Information

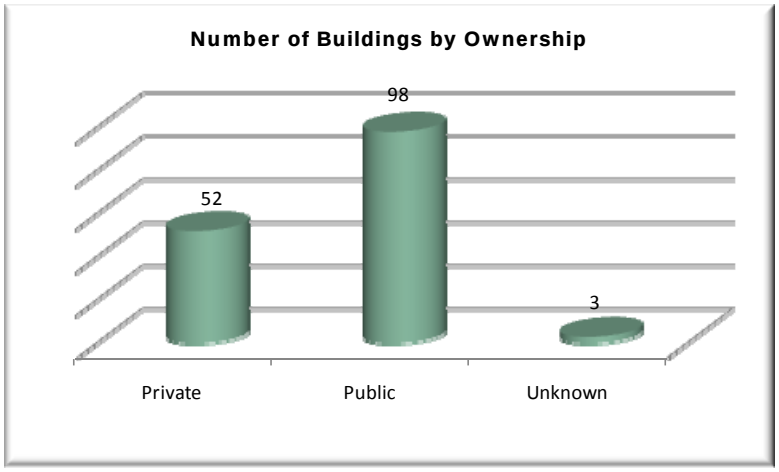
Name	
Organization	
Street	
City	
State	

Preliminary Survey Results

The chart at right represents the number of buildings by building type. The largest number (61— unknown) is based on buildings that did not fall into a specific category. The next largest number of buildings (57) are in the Residential category followed by Business.

The age of the building range from two to 140 years old. The majority of them were built in the early 1900's.





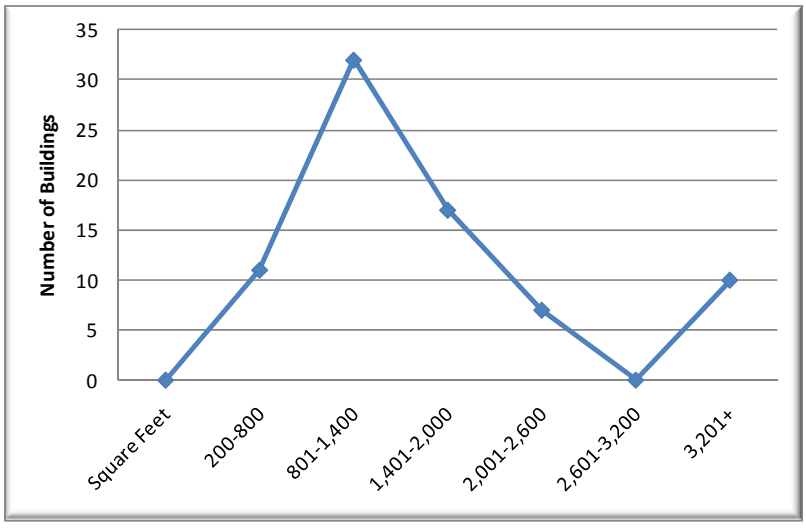
The majority (98) of buildings in need of deconstruction, are publicly owned. This may be due to a bias in the initial survey respondent pool (government). However, notably the public sector entities surveyed, also reported a number of privately owned buildings which represented forty percent of buildings listed in the inventory.

Not only in Iowa, but nationally, more government entities are looking to building deconstruction and recycling as a way to update and upgrade community buildings while saving taxpayer money (www.govpro.com).

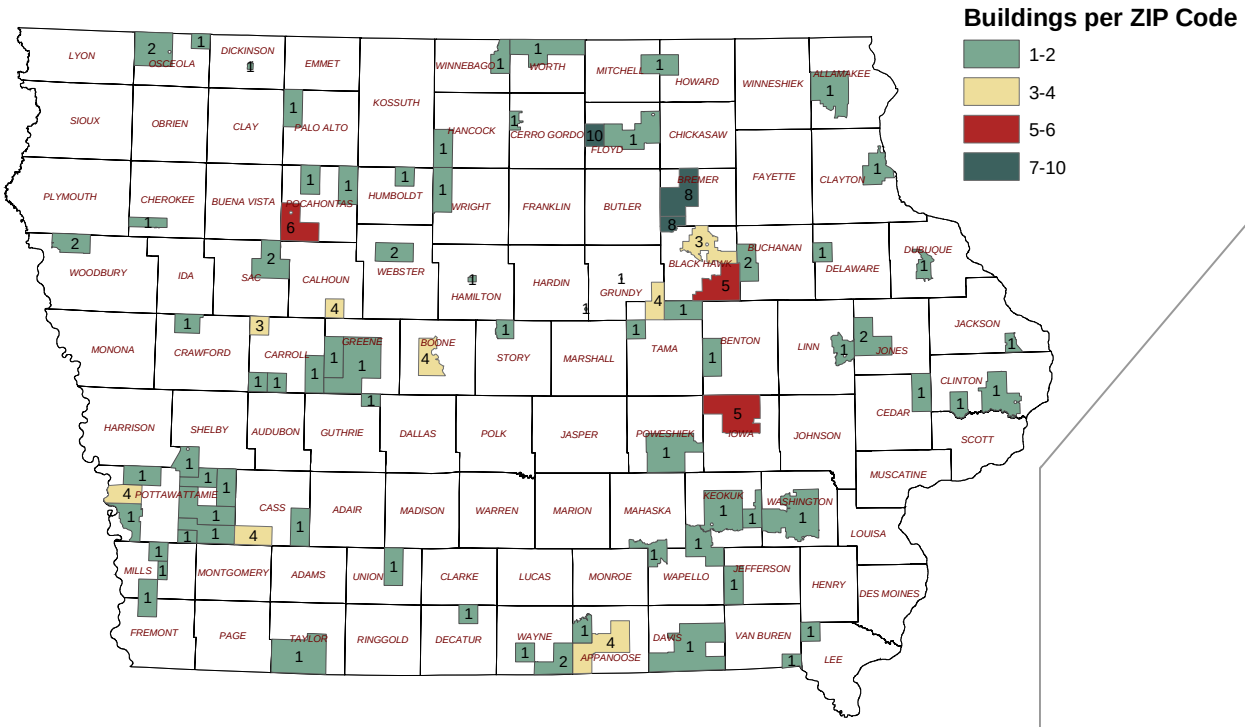
The average square footage of the buildings in this inventory is 2,727 square feet while the majority of the buildings have a median square footage of 1,212 (see figure at right).

Of those that reported the number of stories per building, over half (52.4%) of the buildings identified, are one or two story buildings which represent a total of 87 buildings (47 one-story and 40 two-story). There is a very small percentage (1.8%) of buildings that were three to four stories in height.

Square Footage by Number of Buildings



Map of Building Location



The map above identifies by ZIP code where each of the buildings are located, keeping in mind that the data is only representing the areas that have been entered on-line as of September 2010. What this map does illustrate however is that there are buildings across the entire state that are in need of deconstruction.

Reasons for Deconstruction

The majority of reasons for deconstruction of an existing building fall under the following four categories:

- Unsafe/Deteriorating Buildings - 47.7%
- Flood Damaged - 38.4%
- Expansion Project - 8.1%
- Too Costly to Repair - 3.5%



Respondents were asked about the waiting period before demolition or deconstruction. Most (88.6%) responded that they did not have a waiting period in their city/county.

When asked if they plan to salvage or recycle materials from the deconstruction, 49.4 percent stated they would not and 50.6 percent stated that they would recycle materials.

Most of the demolition is scheduled to be within the next 12 months, however, the majority (64.1%) plan to be completed before the end of the year and over one-third (34.4%) are scheduled for 2011.

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