

# Home Energy Rating Certificate

3340 Mulberry Dr  
Marion, IA 52302



**5 Stars Plus**  
**Verified Condition**

## Uniform Energy Rating System

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70-0

## Energy Efficient

**HERS Index: 54**

### General Information

Conditioned Area: 4486 sq. ft.      HouseType: Single-family detached  
Conditioned Volume: 41399 cubic ft.      Foundation: Conditioned basement  
Bedrooms: 5

### Mechanical Systems Features

Ground-source heat pump: Electric, Htg: 3.7 COP. Clg: 15.2 EER, with Desuperheater.  
Water Heating: Conventional, Electric, 0.94 EF.  
  
Duct Leakage to Outside: 26.00 CFM.  
Ventilation System: None  
Programmable Thermostat: Heating: Yes      Cooling: Yes

### Building Shell Features

Ceiling Flat: R-49      Exposed Floor: R-30  
Vaulted Ceiling: R-30      Window Type: double pane  
Above Grade Walls: R-19, R-13      **Infiltration:**  
Foundation Walls: R-13.0      Rate: Htg: 561 Clg: 561 CFM50  
Slab: R-0.0 Edge, R-0.0 Under      Method: Blower door test

### Lights and Appliance Features

Percent Fluorescent Pin-Based: 10.00      Clothes Dryer Fuel: Electric  
Percent Fluorescent CFL: 0.00      Range/Oven Fuel: Natural gas  
Refrigerator (kWh/yr): 775.00      Ceiling Fan (cfm/Watt): 0.00  
Dishwasher Energy Factor: 0.46

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

**REM/Rate - Residential Energy Analysis and Rating Software v12.4**

This information does not constitute any warranty of energy cost or savings.  
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**Rating Number: 2221934**

Certified Energy Rater: Tim Hanes

Rating Date: 10/01/2007

Rating Ordered For: Allan Custom Homes

## Estimated Annual Energy Cost

Verified Condition

Use	MMBtu	Cost	Percent
Heating	26.3	\$590	25%
Cooling	6.5	\$160	7%
Hot Water	14.4	\$335	14%
Lights/Appliances	48.0	\$1077	45%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$222	9%
<b>Total</b>		<b>\$2384</b>	<b>100%</b>

**This home meets or exceeds the minimum criteria for all of the following:**

EPA Energy Star Home

ASHRAE Standard 90.2 - 1992

1998 International Energy Conservation Code

2000 International Energy Conservation Code

2001 International Energy Conservation Code

2003 International Energy Conservation Code

2004 International Energy Conservation Code

2006 International Energy Conservation Code

Energy Conservation Code of New York

Energy Conservation Code of Southern Nevada

1992 CABO Model Energy Code

## Energy & Environmental

### Ratings Alliance

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