

Phase I Results – West Virginia (2009 IECC)

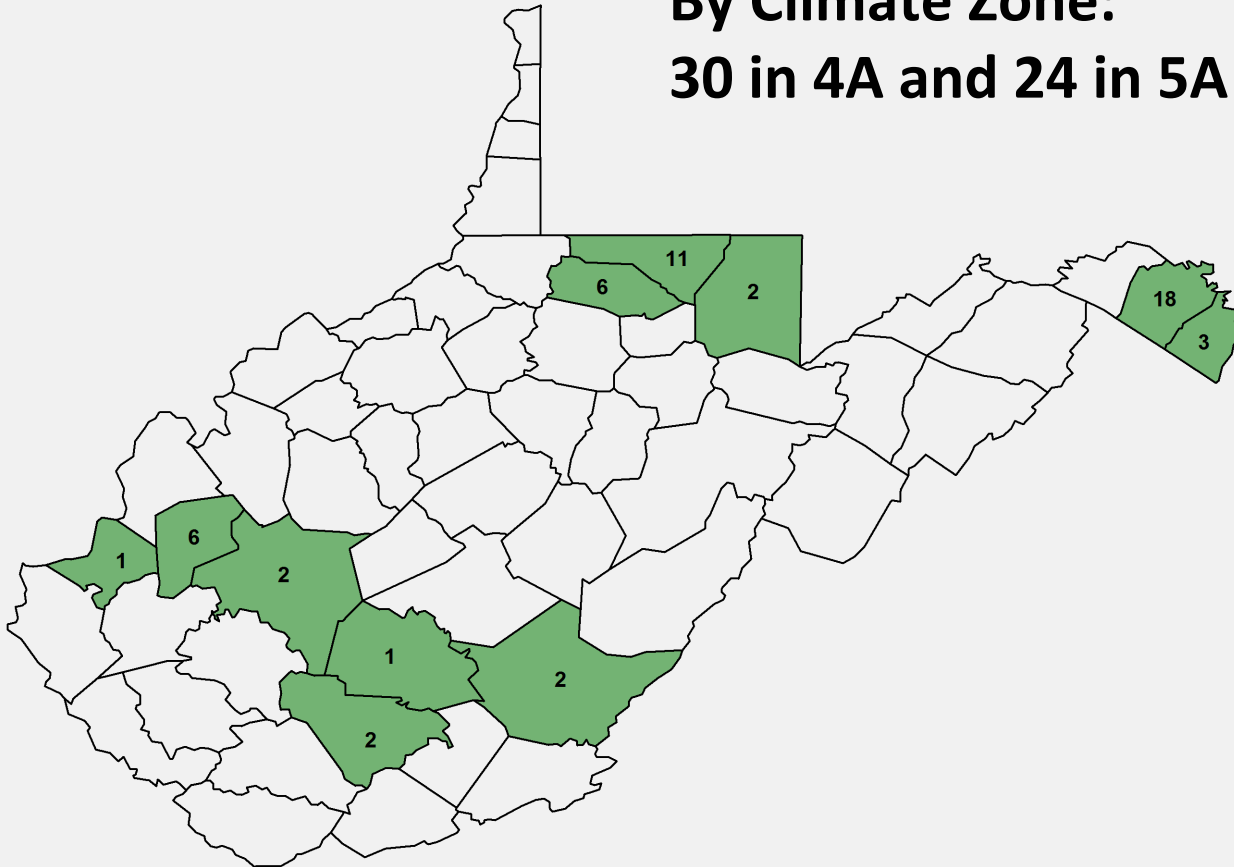
Sheila Coleman-Castells, Executive Director,
HBA of West Virginia Foundation

Research sponsored by the US Department of Energy, EERE
and the West Virginia Division of Energy

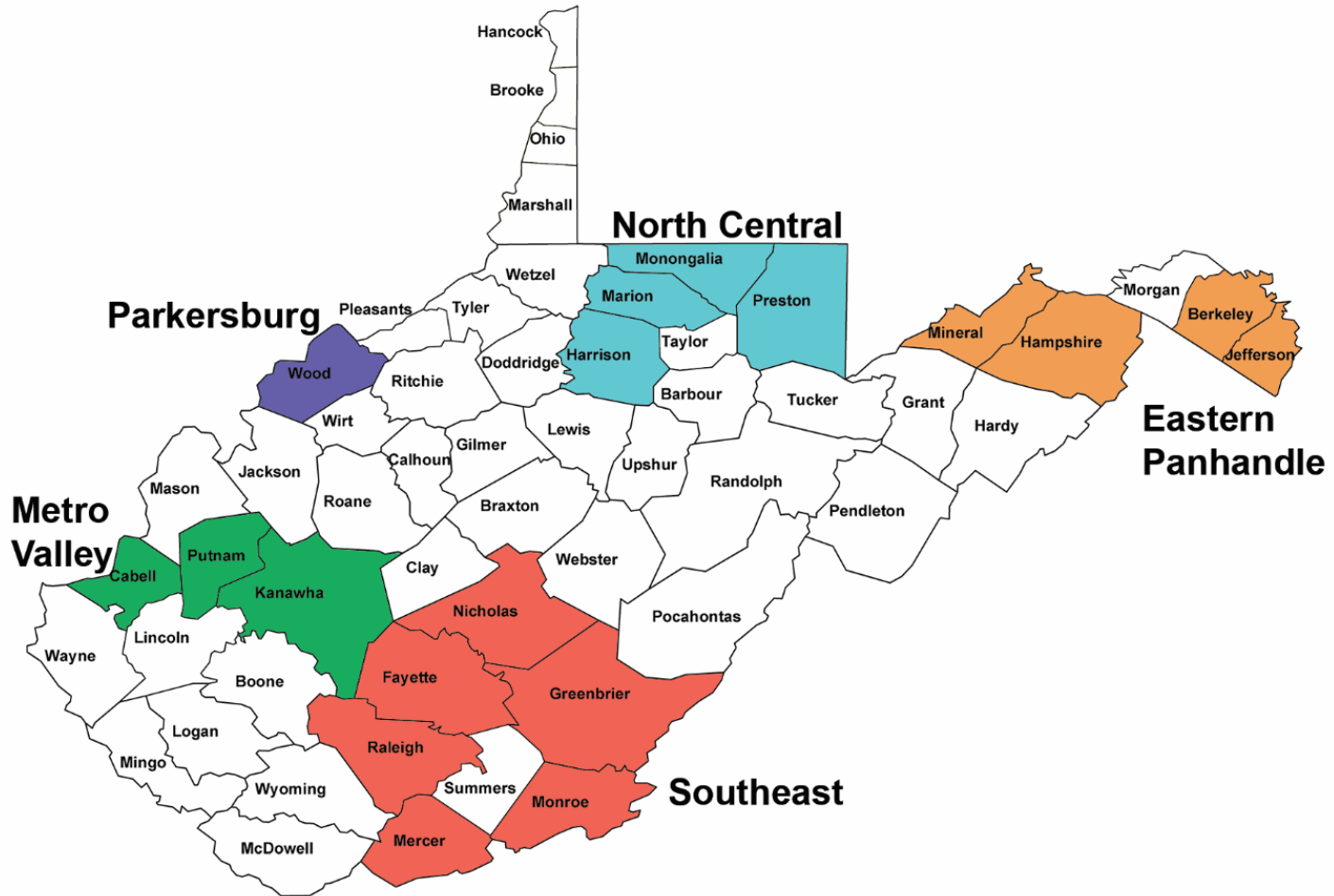


54 Completed Inspections

**By Climate Zone:
30 in 4A and 24 in 5A**



Target Regions

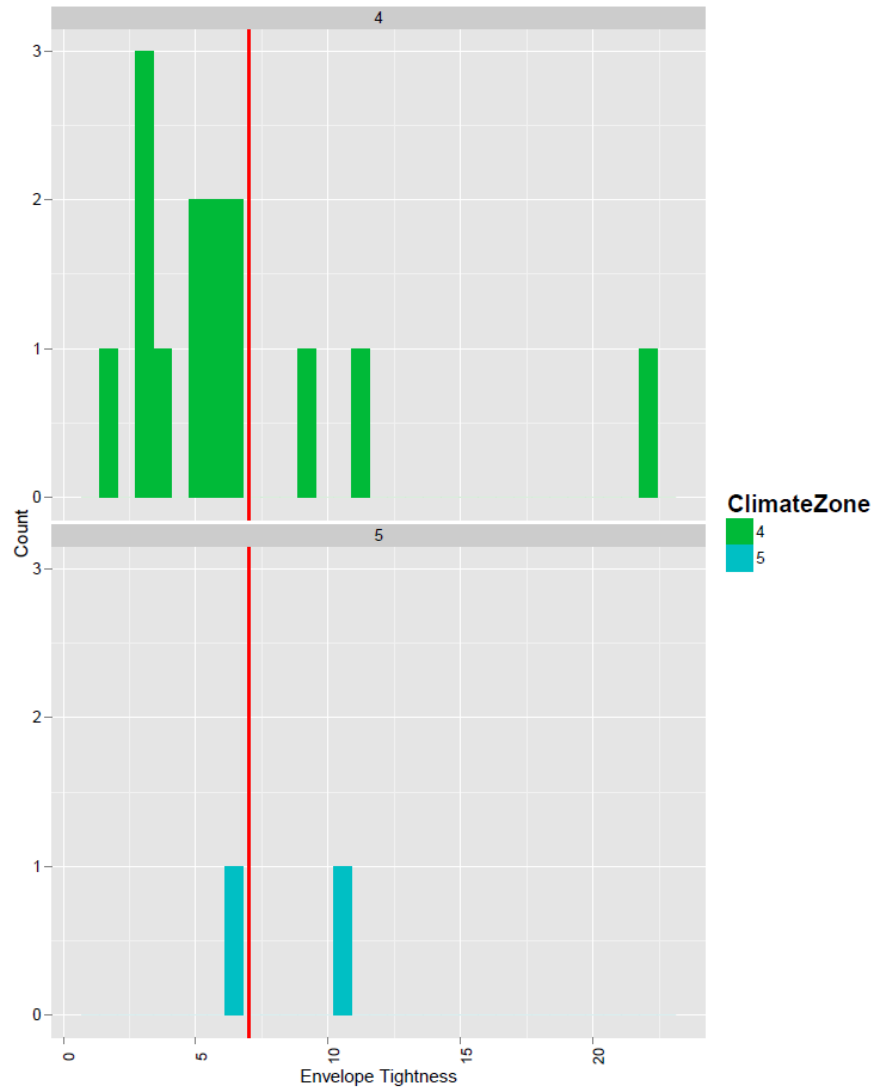


Key Items

Envelope Tightness (ACH50)

No. of observations: 16

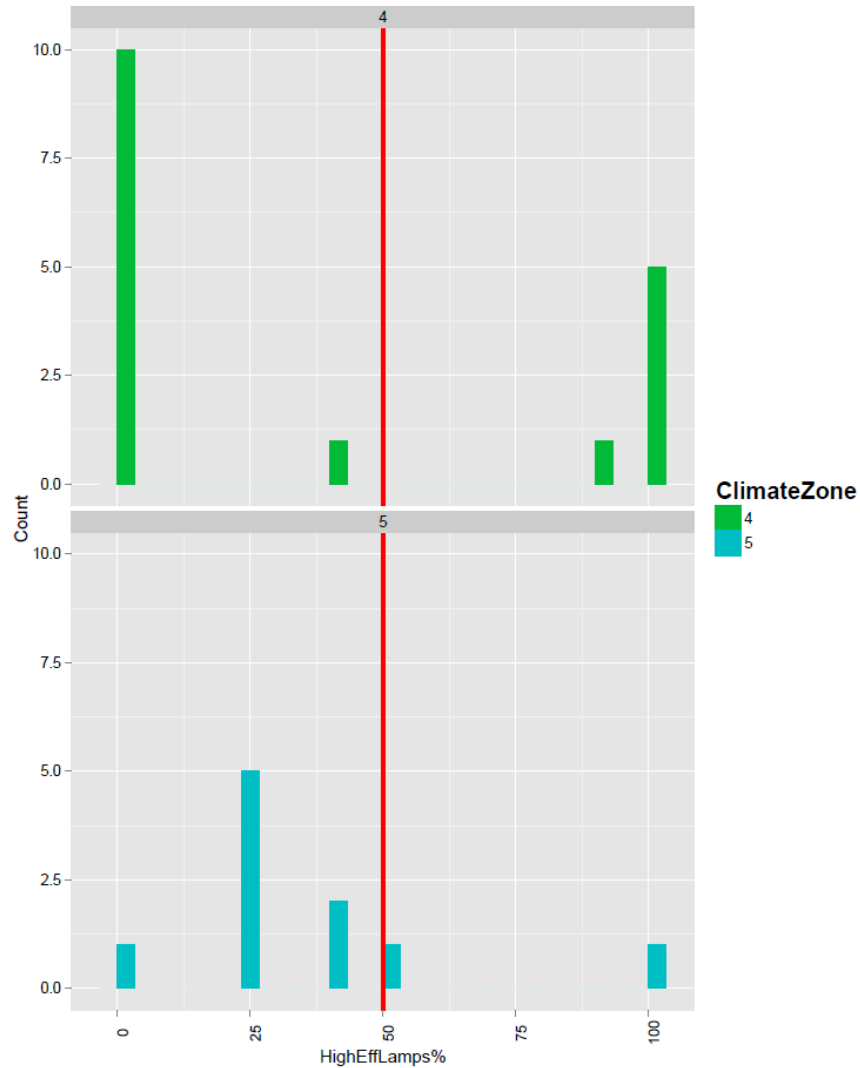
Vertical red line indicates the 2009 IECC prescriptive code requirement



High Efficacy Lamps (%)

No. of observations: 27

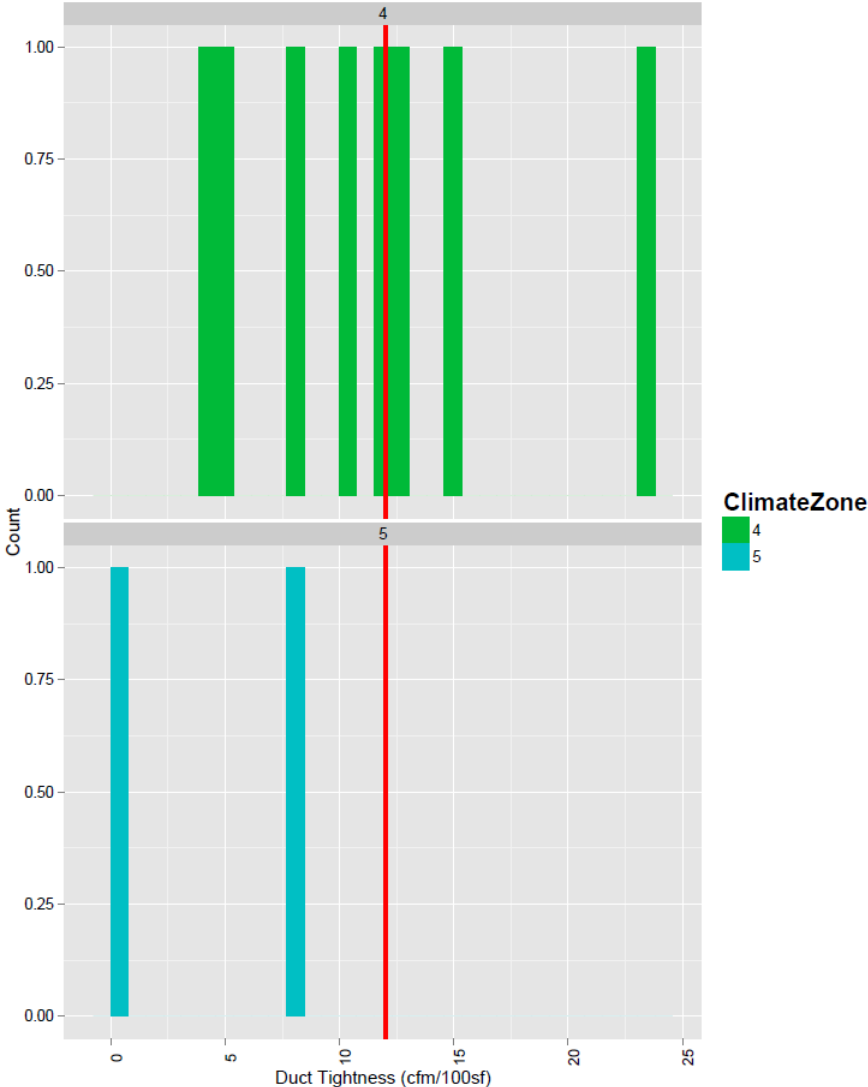
Vertical red line indicates the 2009 IECC prescriptive code requirement



Duct Tightness (CFM25/100 ft² CFA)

No. of observations: 10

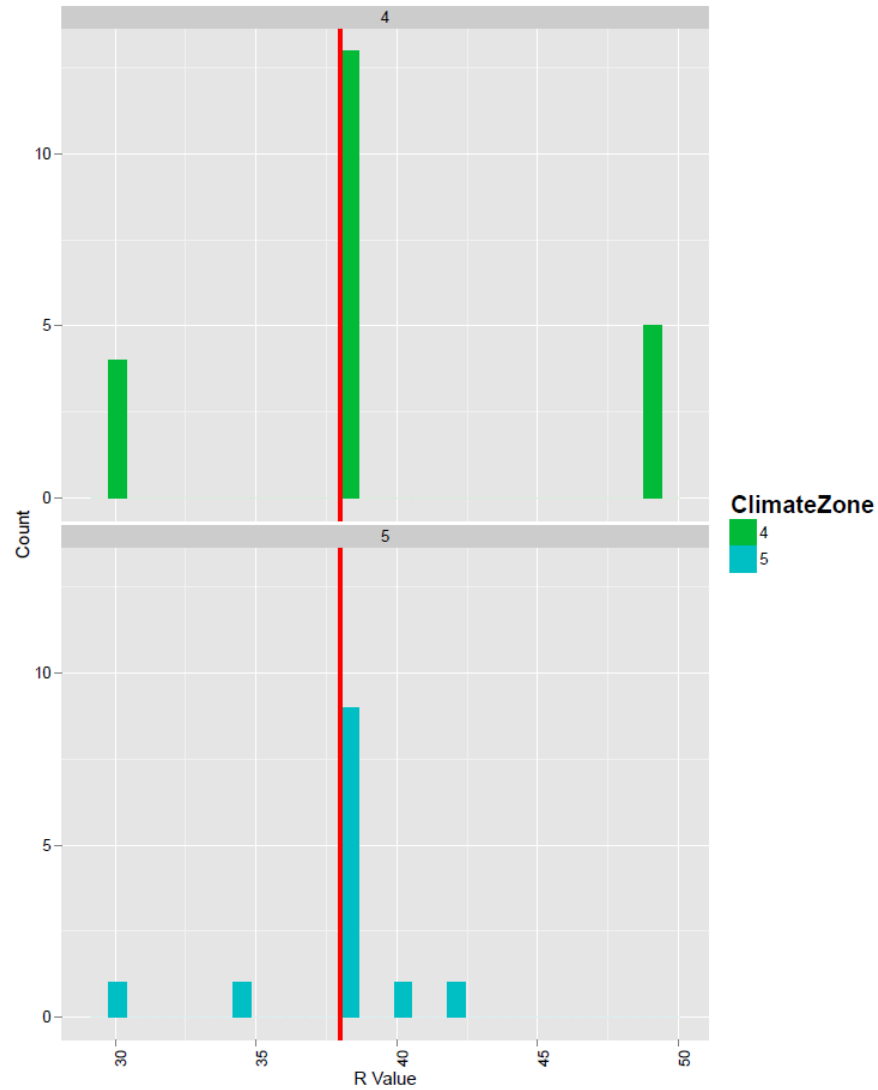
Vertical red line indicates the 2009 IECC prescriptive code requirement



Ceiling R-value

No. of observations: 35

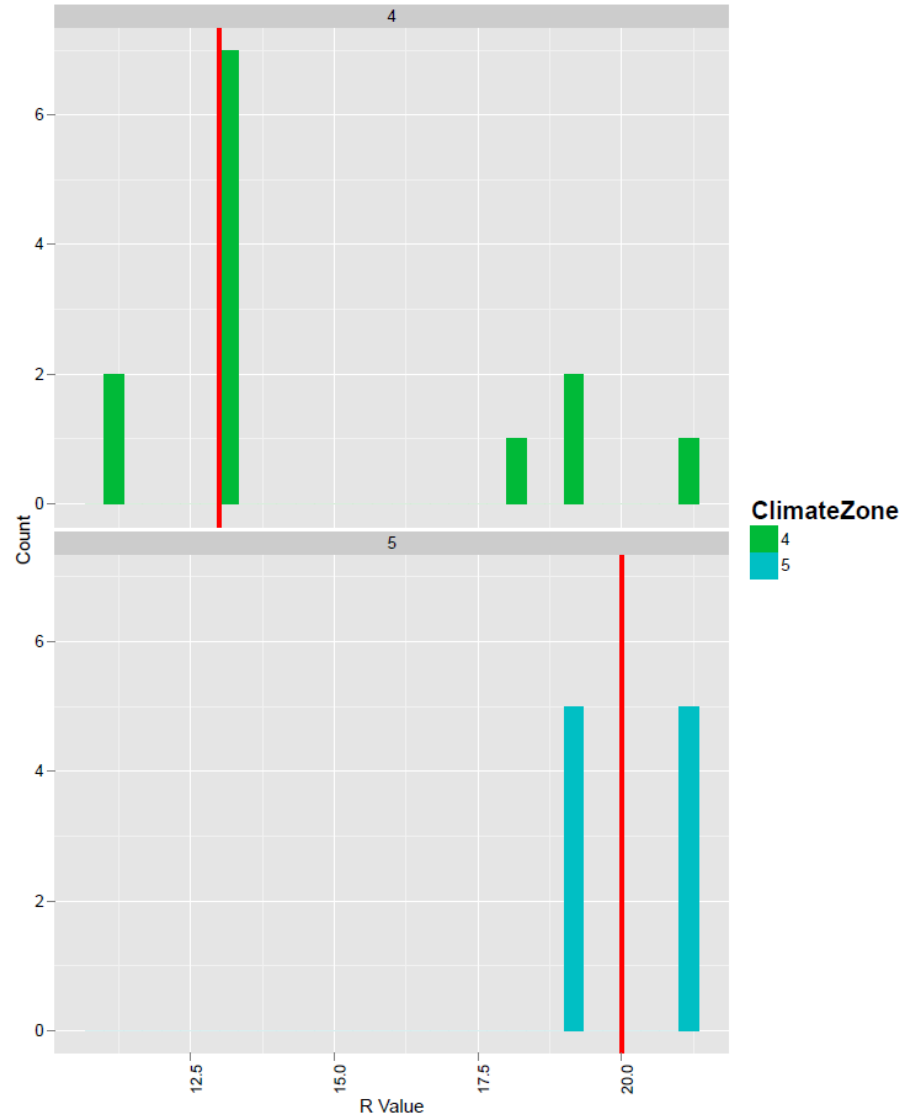
Vertical red line indicates the 2009 IECC prescriptive code requirement



Frame Wall R-value (Cavity Only)

No. of observations: 23

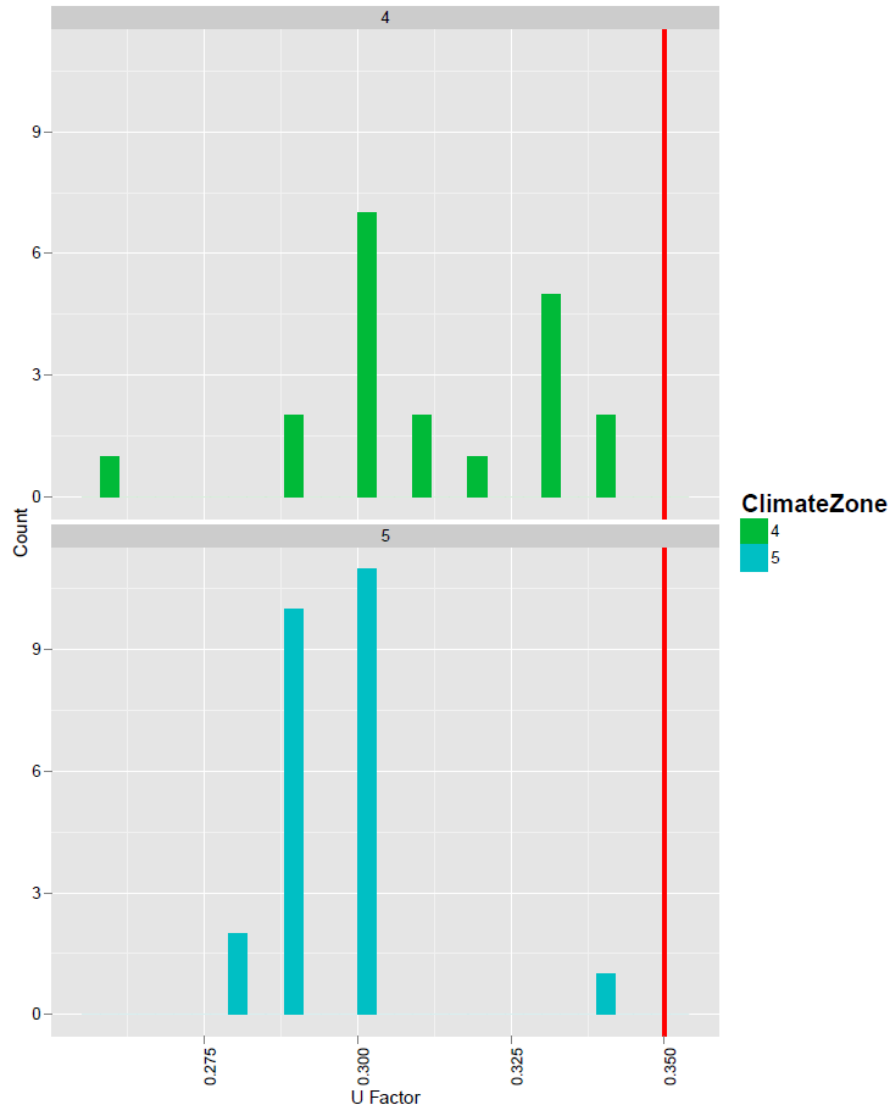
Vertical red line indicates the 2009 IECC prescriptive code requirement



Window U-factor

No. of observations: 44

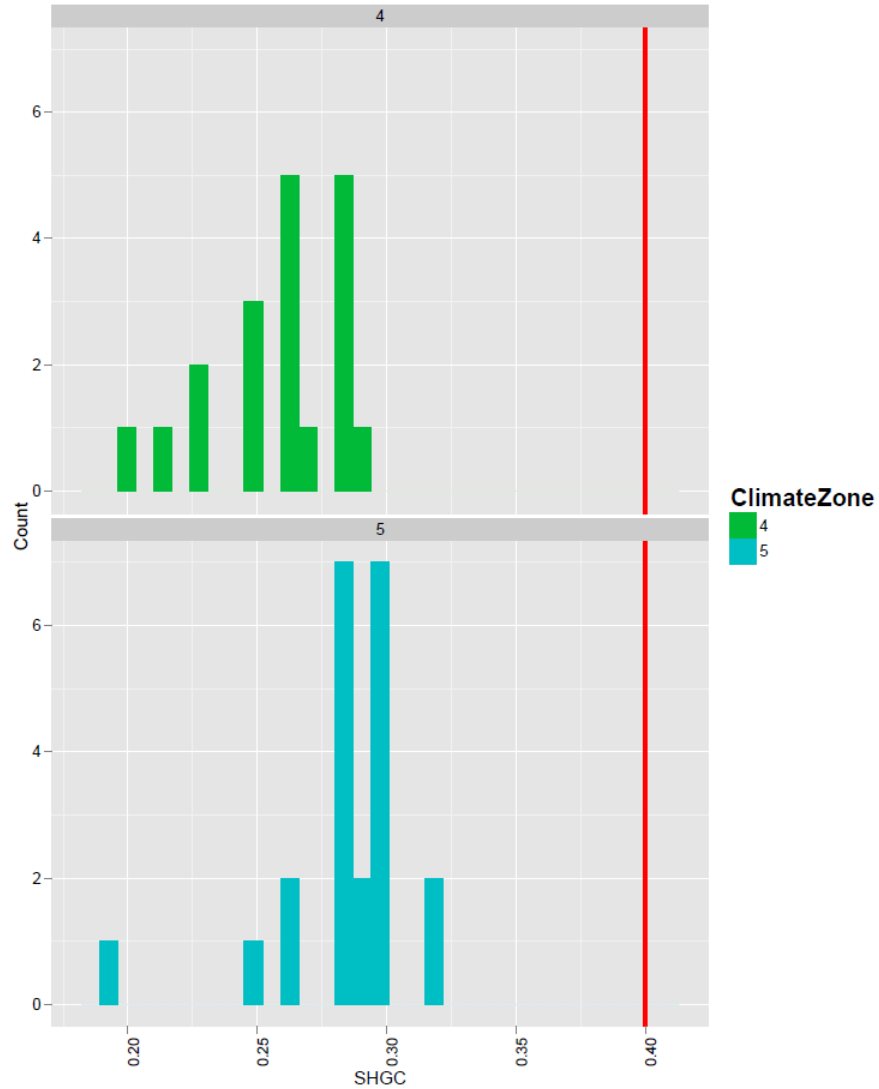
Vertical red line indicates the 2009 IECC prescriptive code requirement



Window SHGC

No. of observations: 41

Vertical red line indicates the 2009 IECC prescriptive code requirement



Implications for Training

- 2009 IECC training has generally worked, but there is still more work to do in builder education.
- We know very little about the housing industry in the state, from where new houses are being built to the rate of growth of the housing industry per year.
- Training should be centered on “spot” areas of greatest need, fewer comprehensive classes.
- Some training should be done “in situ” (on building sites) whenever possible, in a “hands-on” fashion.
- Help the entire built industry in WV embrace EE as the norm, not an “add-on”.

Implications for Training

- More emphasis should be placed on engaging the DIY consumer, especially post-flood.
- Trainers should be trained at the highest level (HERS Trainers), to ensure thorough knowledge
- Trainer quality, accessibility and sustainability helps the state to maintain a stable knowledge base in building sciences.