

ERRATA SHEET NO. 1
for
NBS BSS 144, September 1982

January 19, 1983

The following corrections should be inserted in National Bureau of Standards (NBS) Building Science Series (BSS) 144 Optimal Weatherization of Low-Income Housing in the U.S.: A Research Demonstration Project, Richard Crenshaw and Roy E. Clark, September 1982.

1. Table 29, footnote * (Page 71)

Change--Delete footnote * in its entirety.

Comment--The statement is incorrect. Data on houses exhibiting negative savings were considered in calculating the averages.

2. Table 29 (Page 71)

Change--Add a footnote to Table 29, as follows:

Water heating data were not included in these tabulations.

Comment--Evaluation of savings achieved through weatherizing water heaters was not part of this research. In cases where space heating and water heating were done by the same fuel, a hot water factor (H.W. Factor) was calculated in order to subtract out fuel used for heating water. In cases where no data was available on hot water fuel use, as when water heating was done in conjunction with a space heating boiler, a hot water factor of 20 million Btu per year was used. In cases where insufficient data existed before weatherization, the "after weatherization" data was used both before and after weatherization. In cases where data existed both before and after weatherization, they were reported. This data is reported in Appendix B. From this data, there is little evidence of savings due to hot water retrofit. Further analysis could be done on the hot water data, especially in houses which have different fuels for space heating and water heating.

3. Page 72, 3rd Paragraph, Line 13

Change--

From: "... tables 13 through 24"

To: "... tables 14 through 24"

Comment--Table 13 shows options selected to be installed, not those actually installed.

4. General Remarks

The payback for several of the sites reported in Table 29 may be longer than would otherwise be the case, for the following reasons:

<u>Site</u>	<u>Remarks</u>
Atlanta, Easton, Minneapolis, St. Louis	Mechanical options were not installed in most houses.
Oakland, St. Louis	Inspections showed that work on shell options was not carried to completion on some houses.

Overall payback was not calculated for Minneapolis due to lack of confidence in the limited cost data provided.

5. Page 6, last sentence

Change--Revise the last sentence to read as follows:

"Finally, after all the options were installed and the building dimensions submitted, NBS staff visually inspected each weatherized home and checked the accuracy of the reported building dimensions and installed options. In addition, NBS staff inspected 105 of the homes for quality of work done, using infrared thermographs of the insulated walls. Budget and staffing limits precluded covering all of the weatherized homes with a systematic examination of the quality of the installations. The inspections that were done suggested that the quality of the installations varied more than would be consistent with optimal weatherization practices."

Comment--Assessing the impact of these variations in adequacy and quality of installations on energy consumption was beyond the scope of of the present Demonstrations.