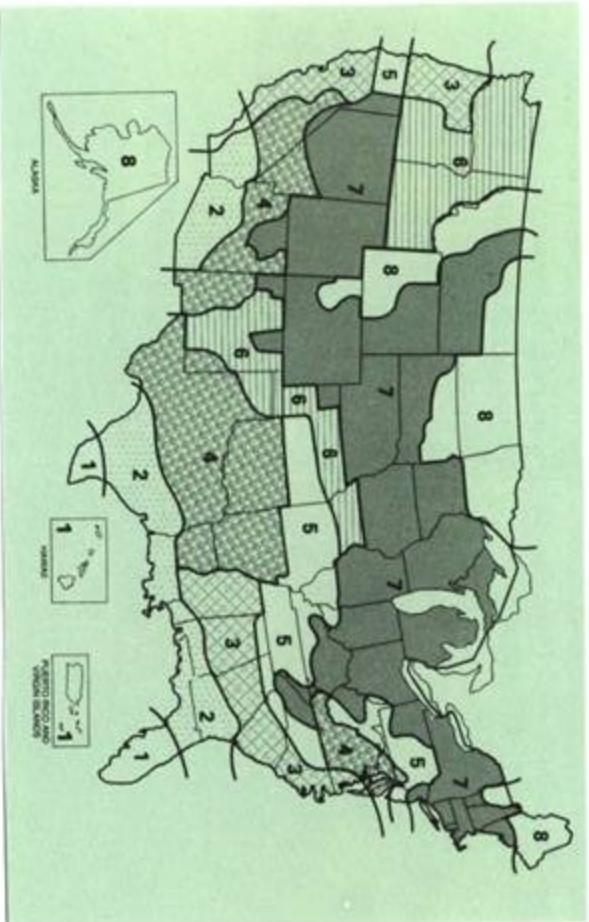


U.S. DEPARTMENT OF ENERGY R-VALUE RECOMMENDATIONS

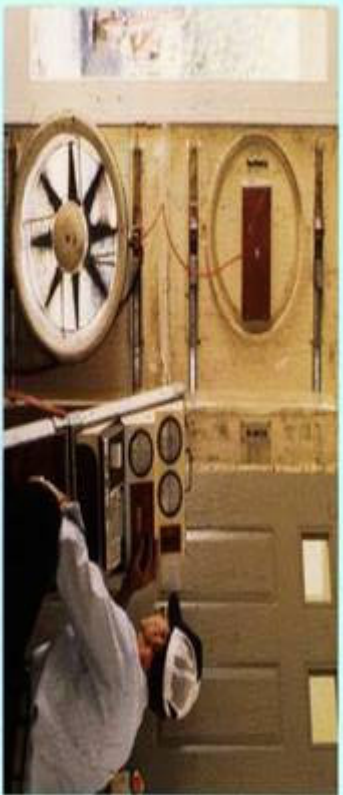
Recommended Total R-Values for Existing Houses in Eight Insulation Zones*									
Component	Ceilings Below Ventilated Attics		Floors Over Unheated Crawl Spaces, Basements		Exterior Walls ^b (Wood Frame)		Crawl Space Walls ^c		
Insulation Zone	Oil, Gas, Heat Pump	Electric Resistance	Oil, Gas, Heat Pump	Electric Resistance	Oil, Gas, Heat Pump	Electric Resistance	Oil, Gas, Heat Pump	Electric Resistance	
1	19	30	0	0	0	11	11	11	11
2	30	30	0	0	11	11	19	19	19
3	30	38	0	19	11	11	19	19	19
4	30	38	19	19	11	11	19	19	19
5	38	38	19	19	11	11	19	19	19
6	38	38	19	19	11	11	19	19	19
7	38	49	19	19	11	11	19	19	19
8	49	49	19	19	11	11	19	19	19

- a. These recommendations are based on the assumption that no structural modifications are needed to accommodate the added insulation.
- b. R-value of full wall insulation which is 3-1/2" thick, will depend on materials used. Range is R-11 to R-13. For new construction, R-19 is recommended for exterior walls. Jamming an R-19 batt in a 3-1/2" cavity will not yield R-19.
- c. Insulate crawl space walls only if the crawl space is dry all year, the floor above is not insulated, and all ventilation to the crawl space is blocked. A vapor barrier (e.g., 4- or 6-mil polyethylene film) should be installed on the ground to reduce moisture migration into the crawl space.



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