

The Food and Heat Producing Solar Greenhouse



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INTRODUCTION 7
First a definition is in order because there is some confusion created by the term solar greenhouse. The confusion is understandable because all greenhouses are in fact solar. However traditionally designed greenhouses have rarely been concerned with the most effective use of the sun's energy. Those described in this book are. We have incorporated four basic elements in the design and operation of each of our greenhouses:
1. The most efficient collection of solar energy.
2. The storage of solar energy.
3. The reduction of heat loss during and following collection periods.
4. Zone layout for the particular light and temperature requirements of various plants.
Attention to these elements produces the following benefits:
1. Surplus thermal energy produced in winter can be used

immediately in an adjoining structure or stored for later use. 2.
Independence from mechanical heating and cooling devices powered by fossil fuel. 3. Fresh food and colorful flowers right through the winter. This book's designs and the benefits derived from it all come from a basic concern with people's relationship to their environment. One basic environmental problem is centered around misuse of energy. We realized that while many people wish for alternative systems the success of such systems is dependent on the individual's commitment to the system coupled with an understanding of what makes it work. And we want you to know exactly what's involved in building and maintaining your own solar unit. In the following pages we've shown methods that can be used to make an appreciable addition to the quality of your life through a closer involvement with your food chain (fresher and cheaper vegetables) a free source of partial heating for your house a more realistic integration with the cycles of the sun the seasons and the weather and independence from corporate energy and food games. Whether or not you actually build a greenhouse depends on many factors: space economics appropriateness to your location and determination to name a few. But even if you don't build reading this book will enlarge your understanding of your environment and your relationship with it. This book grew out of the Solar Sustenance Project begun in 1974. It was a modest demonstration project to determine if attached greenhouses could supplement homes in eleven high-elevation locations in the Rockies with fresh food and heat throughout long and cold winters. The work has evolved into an educational process that has worldwide relevance. The solar greenhouse is unique in that it can satisfy two basic human needs food and shelter. With other beneficial side effects such as water conservation and distillation the potential for greenhouse application is just beginning to be understood. When we began the project many engineers and architects insisted that our simple greenhouses wouldn't lengthen the growing season even a week. We were told by others that the 90-degree heat produced by the units was virtually useless. Fortunately we didn't listen to them. Balancing the negativism of the cynics we had the support of many people in the field: Keith Haggard and Peter VanDresser of Santa Fe T.A. Lawand of the Brace Institute in Quebec Dr. Francis Wessling of the University of New Mexico and several of the people mentioned in Chapter VIII. Now competent professionals from all over the world are eagerly exploring the solar greenhouse field and their expertise will certainly advance the state of the art. An important aspect of solar greenhouses is that the principles of design can be applied at any economic level. The \$7.00 recycled lumber and polyethylene greenhouse slapped to the south side of a

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