Relocating or expanding a dairy facility is a process that requires a tremendous amount of time and planning. Owners or managers of dairies will go through a number of steps including:

- Developing a Business Plan
- Financing
- Design Process
- Developing Specifications
- Selecting Location/Site
- Permitting/Legal
- Obtaining Bids
- Selecting Contractors
- Purchasing Feeds
- Managing Construction
- Buying Cattle
- Hiring and Training Employees
- Developing Management Protocols for the Dairy
- Information Flow

This publication will discuss designing and locating a dairy facility to maximize labor efficiency and cow performance.

The dairy can be divided into six components:
(1) milking parlor; (2) cow housing; (3) special needs facility (hospital, closeups, etc.); (4) replacement heifer housing; (5) manure management system; and (6) feed center. This publication will focus on milking parlors, cow housing, grouping strategies, and site selection.

Options for the Milking Parlor

Evaluating Parlor Performance

Milking parlor performance has been evaluated by time and motion studies (Armstrong et al., 1986) to measure steady-state throughput (cows per hour). Steady-state throughput does not include time needed for cleaning the milking system, maintenance of equipment, effects of group changing, and milking the hospital strings. These studies also allow us to look at the effect of different management variables, including milking interval.