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## Stress Beauty, Playability in Irrigation Booklet

Methods of irrigation that will insure the maximum in beauty and playability of golf courses with minimum installation and maintenance costs are outlined in a new booklet, "Golf Course Irrigation", published by the Cast Iron Pipe Research Association, Chicago.

The booklet was prepared to "assist golf course supts. in the selection, design and construction of new irrigation systems and in expanding or replacing existing ones," according to Thomas F. Wolfe, managing director of the association. "It is not intended to replace the architect and engineer," he adds.

An abundant water supply is the first requisite for a beautiful and healthy golf course, the booklet points out. Of equal importance is an efficient and dependable piping system to deliver the water properly. With water and a good sprinkler sys-



Thomas F. Wolfe (r), managing director of Cast Iron Pipe Research Association, explains a golf course irrigation system to Bill Ogden, pro at North Shore CC in Glenview, Ill.

tem, maximum benefits can be obtained from fertilizers, fungicides and chemicals whose uses are so vitally important in growing and maintaining vigorous, disease-free grasses.

### Numerous Illustrations

The text is illustrated with maps, charts and photographs including a map of the United States showing the annual rainfall

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in inches in various sections of the country. This enables the supt. to estimate the number of rainless days and the amount of water he will need to provide by irrigation. Thus it helps him to specify the capacity of his sprinkling system.

Other charts include:

1. "Equation of pipes" showing the number of pipes of various sizes needed to equal the carrying capacity of pipes of a larger size.
2. Assemblies of valves for fairways and tees, gravel sump drains and sod cups and valves.
3. Federal specifications for cast iron pipe and mechanical joints.
4. Thickness and weights of pipes of various diameters by the feet and by length.
5. Flow capacities for various sizes of pipe.

#### Operate in Sections

Since a system designed to irrigate the entire grounds at one time is not economically feasible, the booklet warns that a "schedule for operating the watering system in sections is an important factor in preparing the basic design."

Under the heading, "General Design

Considerations," the booklet points out that:

1. Determining the water system is a hydraulic problem that must be balanced with the source of supply, pumping pressure and available water volume.
2. The need for irrigation varies with the rainfall and evaporation rate in individual states. (The map showing anticipated rainfall by areas is included to help supts. estimate their needs.)

Other sections of the booklet include: types of irrigation systems; operating schedules; selection of proper pipe sizes; pumping equipment; sprinkler and nozzle spacing and installation methods which are copiously illustrated with photographs of actual installations.

Copies of the booklet can be obtained by writing to Cast Iron Pipe Research Association, 3440 Prudential Plaza, Chicago 1, Ill.

Statistics released by the Ladies PGA late in August showed Mickey Wright to be the leading money winner. She had collected \$14,137 and had won 7 tourneys.