

# Drought Plan

As a responsible member of both the Iowa State University and Ames communities, Veenker is sensitive to being a good steward to the land and as such we believe in implementing water conservation practices when appropriate.

## Irrigation Veenker Memorial Golf Course using ET Rates

Action Levels	Irrigated Tees & Greens	Irrigated Fairways	Irrigated Roughs	Irrigation Landscape Clubhouse out of play areas
Normal	100%	100%	100%	100%
Advisory	100%	80%	50%	No Irrigation
Watch	80%	60%	No Irrigation	No Irrigation
Warning	70%	50%	No Irrigation	No Irrigation
Emergency	TBD	TBD	No Irrigation	No Irrigation

The ET rate is a calculation from our irrigation system based humidity levels, heat and wind. Also use soil moisture probes are used to help determine localized dry spots, which we will hand water when necessary. The soil moisture in our greens we try to maintain between 15 and 20 percent on the probe.

## Historical Preparations for Water Conservation

<b>1986</b>	Changed from City Water to Well Water
<b>1997</b>	Added continuous cart paths to reduce wear and irrigation needs on the course
<b>2001</b>	Constructed a lake on the course to capture runoff water for irrigation use. (Runoff water provides approximately 25 % of irrigation needs in a normal season)
<b>2002</b>	Upgraded to a new irrigation system that is computer controlled
<b>2008</b>	Regrassed the course with more drought tolerant varieties of turf grasses

## 2012 Drought Condition ~ Actions to reduce water usage

Aeration \* Used Wetting agents \* Raised height of cut \* Based water usage on ET \* Mowed less frequently \*

Reduced cart traffic on watered areas \* Hand watered rather the use of overhead sprinklers \*

Watered during the night and morning rather than during the heat of the day \*

Reduced areas being watered \* Reduced Fertilizer applications \* Reduced rolling of greens \* Reduced topdressing \*