

Checklist
(Date)

(Name of Club)

Best Management Practices for Water

A) Site Assessment

1) Area, 2) Plants, 3) General factors

Greens - 1) Square footage _____, 2) Grass type _____,
3) Cutting height _____, 4) Soil type _____,
5) Special technology _____, 6) Other information _____.

Tees - 1) Acres _____, 2) Grass type _____,
3) Cutting height _____, 4) Soil type _____,
5) Special technology _____, 6) Other information _____.

Fairways - 1) Acres _____, 2) Grass type _____,
3) Cutting height _____, 4) Soil type _____,
5) Special technology _____, 6) Other information _____.

Rough - 1) Acres _____, 2) Grass type _____,
3) Cutting height _____, 4) Soil type _____,
5) Special technology _____, 6) Other information _____.

Landscape - 1) Acres _____, 2) Plant material _____,
3) Soil type _____, 4) Other information _____.

Club Grounds - 1) Acres _____, 2) Plant material _____,
3) Soil type _____, 4) Other information _____.

4) Irrigation Audit

Pump Station - 1) Year _____, 2) Type _____, 3) Pump sizes _____,
4) Gallonage _____, 5) Safety features _____, 6) Condition _____,
7) Maintenance schedule _____, 8) Other information _____.

Controls - 1) Year _____, 2) System type _____,
3) # of field controllers _____, 4) Condition _____,
5) Other information _____.

Irrigation system - 1) Year _____, 2) Type _____, 3) Valves _____,
4) Quantity/GPM of heads greens _____; heads tees _____;
heads fairways _____; heads roughs _____; 5) Other information _____.

Efficiency estimate _____ %

B) Overall Water Needs

Metering - 1) # of meters _____, 2) Location(s) _____,
3) Other information _____.

Record Keeping - 1) Yearly gallonage _____, 2) Schedule _____,
3) Other information _____.
(*attach one year of records plus total usage)

Water Testing - 1) Schedule _____, 2) Other information _____.
(*attach most recent tests)

Reservoir - 1) Size _____, 2) Type of water _____,
3) Other information _____.

Future needs - 1) _____.

Alternative water sources - 1) Yes ___ No ___ 2) If yes _____.

C) Best Management Practices and Current Conservation Measures

Current Irrigation Control/ Costs - 1) Pump Station \$_____,
2) Control system (computer/controllers) \$_____,
3) Irrigation system (sprinklers, pipe, valves, fittings, etc) \$_____,
4) Other \$_____.

Staffing Control/Maintenance Costs - 1) Supervisor time \$_____,
2) Irrigation technicians time \$ _____, 3) Other help time \$ _____
(*all of the above involved in diagnosis, repairs, recordkeeping,
inventory, scheduling, etc.)

Scouting Costs - 1) Daily scouting time \$_____. (explain)

Hand Watering Costs- 1) Daily hand watering time \$_____. (explain)

Night Watering Capability - Water course at night to reduce loss and keep
from extending the natural free moisture range (disease pressure
reduced)

Rain, leak, etc. loss costs – (See Scouting, Pump Controls, Irrigation controls)

Traffic Controls/Costs – 1) Daily traffic control time \$_____. (explain)
Management for water conservation (describe programs)

- A. Cutting heights – _____
- B. Soil Cultivation – _____
Greens # of times/year _____, Tees # of times/year _____,
Fairways # of times/year _____.
- C. Evapotranspiration Utilization – Utilize (list source) to monitor weather data to help schedule irrigation cycles based on evapotranspiration values
- D. Landscape Material Selection – _____
- E. Natural Areas – _____
- F. Fertilization – _____
(Bermuda grass # of lbs. _____, Bent grass # of lbs. _____)
- G. Pest Management – (explain)
- H. Wetting agents – Yes ___ No ___ (explain)

Record Keeping

- Man hours involved with scouting
- Man hours involved with hand watering
- Man hours involved with irrigation repairs
- Costs of parts for repairs - \$_____
- Weekly, Monthly and Yearly water usage
- Water quality tests
- Pesticide and fertilizer applications (in relation to irrigation)
- (other methods)

Irrigation Methods

- Combination of plant based, soil based, atmosphere based and budget report.

Goal Setting

- (explain)

Education

- *Benefits of Golf course and Turf*

- Economic contributor
 - Carbon dioxide exchange for oxygen
 - Temperature moderation
 - Erosion control
 - Water filter for improved water quality
 - Wildlife sanctuary
 - Recreational benefits of reduced stress and increased health
 - Community outreach (First Tee Programs)
 - (other benefits)
- *Publish this Best Management Plan for use at Club*
- Articles in the Club Newsletter explaining proper water use and water conservation.
- *During drought have papers on water conservation in the pro shop and locker rooms for members and patrons to use at home*
- Post a poster that shows this golf course uses best management practices for water conservation

D) Water Conservation Plan

Reasons for water conservation (describe why it is preferable to conserve)

Proper water management dictates that OVERWATERING is unacceptable

Economics – watering and water management costs money

Depleted water supplies and reduced water quality

(Other reasons)

Counter measures to reduce the effects of drought (describe)

Raise mowing heights where possible

Stop mowing in areas that are cut off

Increase hand watering

(Other reasons)

Future upgrades for water conservation

- (list possible ideas + cost)

E) Attachments

- (list all attachments)