Aquatic Plant & Algae Management

TOP TEN QUESTIONS to ask and answer prior to designing and implementing an aquatic weed and algae management program.

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1. **What weed(s) is causing the problem?**
   - If unknown, send to expert or SRTC lab for positive identification

2. **Is the problem re-occurring or recent?**
   - When was it discovered, location in lake/pond

3. **What other plants (native) are present?**
   - Submerged, emergent, or floating species

4. **What is the potential cause or source of this problem?**
   - Boat launch, birds, inlet stream, reclaimed water source, phosphorus pollution, etc.

5. **What are you managing this system(s) for?**
   - Irrigation supply water, municipalities, aesthetics, wildlife and fisheries, multiple use site, eradication or control of noxious weeds

6. **What is the water use from or downstream of waterbody?**
   - Irrigation (crops, frequency, time of year), drinking, domestic, swimming, fishing, etc.

7. **What is water volume, flow, etc?** (Characterize the waterbody)
   - Maps, surface acres, maximum depth, average depth, inlets, discharge (CFS), sediment type, WQ

8. **What are my current weed and algae control options?**
   - Biological, chemical, mechanical, physical
   - Short-term needs, long-term objective(s)

9. **What is the management budget?**
   - Annual/fixed, reoccurring, new funding options

10. **What local, state and federal approvals/permits are needed to proceed with management program?**
    - Understand and secure permits, if needed; cooperate with other property owners, regulators, resource managers as necessary

See other side

Design and Implement a Management Program Specific to Your Waterbody

Frequently Used Calculations:

Flowing Water

Cubic Feet Per Second (CFS)	=	Average Width (ft.) x Average Depth (ft.) x Speed (ft./sec.)
Acre Feet/Day	=	CFS x 1.98

Area

Rectangle Pond Acreage	=	Length (ft.) x Width (ft.)/43,560 (square feet per acre)
Triangle Pond Acreage	=	1/2 base (ft.) x Height (ft.)/43,560 (sq. ft.)
Circular Pond Acreage	=	3.14 x Radius Squared (ft.)/43,560 (sq. ft.)

Volume

Acre Feet	=	Surface Acre x Average Depth (ft.)
1 Acre Foot $h_2 0$	=	325,851 gallons

Application Rates

Herbicide (lbs/a.i.)	=	Concentration (ppm) x Volume (acre ft.) x 2.7
Formulated Herbicide	=	Concentration (ppm) x Volume (acre ft.) x 2.7 / a.i. (%)

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