



Aquatic Plant Management

South Carolina Department of Natural Resources

FRAGRANT WATER-LILY

Nymphaea odorata

Common Name

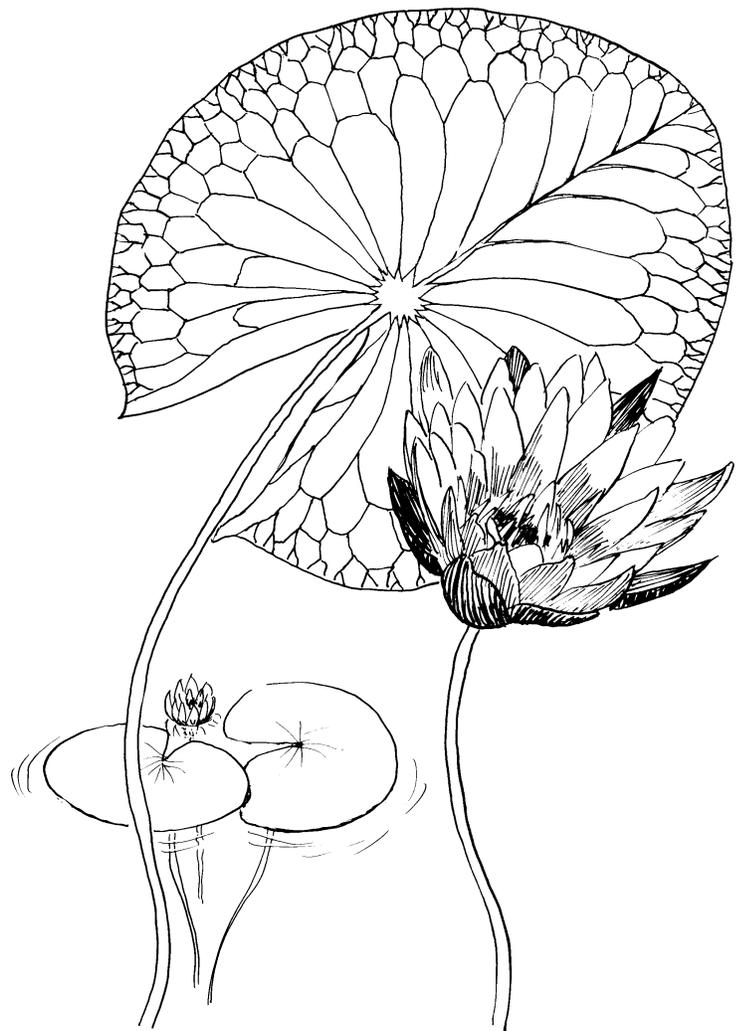
White water-lily

Distribution and Habitat

This aquatic species is found statewide but most frequently in the upper and lower coastal plain. Waters lilies prefers older established ponds with thick organic "muck" or silt bottoms. It may be found rooted in depths of six to eight feet in clear water conditions, although generally thrives in shallower waters. The prolific nature of this plant often causes considerable problems.

Description

The water lily is a rooted aquatic species possessing a single, large heart-shaped leaf 6"-10" wide which lies flat on the water surface. The plant is supported by a long fibrous stem and is rooted by means of a thick, fleshy rhizome buried within the bottom sediments. Numerous leaf veins radiate out from the point of attachment of the stem on the underside of the leaf. The plant produces a fragrant, white flower 3"-5" wide during the warmer months. This flower is composed of numerous white petals with a yellow center.



Recommended Control Methods

1. Granular 2, 4-D
Active Ingredients: Ester of 2, 4-Dichlorophenoxyacetic acid
Product Name: Aqua-Kleen/Riverdale/Weedtrine II
Approximate Cost: \$1.80/lb - \$90.00/50lbs.
Application Rates: 100 - 150lbs/acre (100lbs./acre is equivalent to approximately 5 lbs./2000 sq. ft.)

Application Methods and Tips: Granular 2, 4-D is most effective against water lilies during early season growth before the plants mature. The product should be applied in a broadcast fashion by the use of a fertilizer or seed spreader to ensure uniform coverage of the treatment area. Control will generally be confined to those areas where the herbicide is applied. Higher rates will be required in areas of dense growth, water greater than

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five feet deep or ponds with a short retention time (high volume turnover). Care should be exercised when treating heavily vegetated ponds to prevent oxygen depletions due to decomposing plants. No more than one-third of the pond should be treated at once, allowing 14-21 days between applications. Certain water use restrictions apply to the use of this herbicide. Additional product directions and precautionary statements are listed on the herbicide container. **READ AND FOLLOW THE HERBICIDE LABEL.**

2. Sonar

Active Ingredients: Fluridon

Product Names: Sonar AS/Sonar 5P

Approximate Cost: Sona AS (liquid formulation) \$300.00/quart

Sonar 5P (granular formulation) \$600.00/40lbs.

Application Rates:

<u>Average water depth</u>	<u>Liquid formulation</u>	<u>Granular formulation</u>
Less than 3 feet	.50 - .75 quarts/acre	10 - 15 lbs/acre
3 feet - 5 feet	.75 - 1.0 quarts/acre	15 - 20 lbs/acre
Greater than 5 feet	1.0 - 1.5 quarts/acre	20 - 30 lbs/acre

Application Methods and Control Tips: This product should not be applied to ponds with short retention times, (high volume turnover). Sonar AS should be mixed with water (1 qt to 30 gals. water) and applied evenly over the treatment area. Sonar 5P may be broadcast by the use of a fertilizer or seed spreader to ensure even coverage. Best results are obtained when plants begin active growth in the spring. Herbicidal affects may not be noticeable until 6-12 weeks after treatment. Additional product directions and precautionary statements are listed on the herbicide container. **READ AND FOLLOW THE HERBICIDE LABEL.**

Consult your district fisheries biologist for more details concerning use of these products.

This information is intended for educational purposes only. References to commercial products or trade names is made with the understanding no discrimination is intended of other products which maybe available. Any herbicides recommended herein for the treatment of aquatic vegetation have been registered by the Environmental Protection Agency for use in the manner described. The registration and use of a particular product may change therefore the information provided here may not remain current indefinitely. It is the responsibility of the user to read and follow the manufacturer's label to prevent misuse of the product.



South Carolina Department of Natural Resources
Freshwater Fisheries Section

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