

POND FORMULAS

Liner Size (measurements are in feet.)

Maximum length + twice depth + 2 foot overlap = length of liner

Maximum width + twice depth + 2 foot overlap = width of liner

Keep in mind that a pool must have a depth of 3 feet in order to successfully overwinter hardy lilies and fish. If the pond freezes completely over, fish and plants will die.

Waterfall: add this measurement to the pool liner dimension for a liner that is one piece.

Twice depth + width + 2 feet = width

Width + length, including drop = size of liner for water fall

Gallons of Water a Pond Holds, 7.5 = number of gallons in a cubic foot

Square or rectangular

Length x width x depth x 7.5 = gallons

Oval or irregular

Length x width x depth x 6.7 = gallons

Circular

Length x width x depth x 5.9 = gallons

Square Yards of Surface Area

Square or rectangular

Length in feet x width in feet

9

= Square yards of surface area

Oval

3.14 x 1/2 length x 1/2 width

9

= Square yards of surface area

Circular

1/2 diameter x 1/2 diameter x 3.14

9

= Square yards of surface area

Plants

60-70% of pond surface covered with water lilies or floating leaf plants. More for small ponds, less for larger ponds.

Per square yard of surface area:

1 medium to large water lily or 2 bog or shallow water plants.

2 bunches, 6 stems each, of oxygenating grasses

Fish and Scavengers

New Pond, 9" of fish length per square yard of surface area.

Established Pond, 18" of fish length per square yard of surface area.

Water snails at rate of 12 per square yard of surface area.