

Slope	
Degrees	Percent
0	0.0
1	2.2
2	4.4
3	6.7
4	8.9
5	11.1
6	13.3
7	15.6
8	17.8
9	20.0
10	22.2
11	24.4
12	26.7
13	28.9
14	31.1
15	33.3
16	35.6
17	37.8
18	40.0
19	42.2
20	44.4
21	46.7
22	48.9
23	51.1
24	53.3
25	55.6
26	57.8
27	60.0
28	62.2
29	64.4
30	66.7
31	68.9
32	71.1
33	73.3
34	75.6
35	77.8
36	80.0
37	82.2
38	84.4
39	86.7
40	88.9
41	91.1
42	93.3
43	95.6
44	97.8
45	100.0

Average pond depth in feet	=	maximum depth x 0.33
Pond volume for irrigation	=	1.5-2.0 acre-feet of water storage per acre irrigated
	=	2+ acres of runoff area per acre-foot of water storage
One acre	=	43,560 square feet
	=	209 feet square
One acre-inch	=	27,154 gallons
	=	3,630 cubic feet
One acre-foot	=	325,851 gallons
	=	43,560 cubic feet
	=	12 acre-inches
One cubic foot	=	7.48 gallons
One cubic foot per second	=	450 gallons per minute
	=	1 acre-inch per hour
	=	2 acre-feet per day
One day	=	24 hours
	=	1,440 minutes
One hour	=	60 minutes
	=	3,600 seconds
Phosphorus (P ₂ O ₅)	=	Elemental P x 2.273
Potassium (K ₂ O)	=	Elemental K x 1.205
One pound per square inch (psi)	=	2.31 feet of elevation head
Gallon volume of square or rectangular tank	=	Length in feet x Width in feet x Depth in feet x 7.5
Gallon volume of round tank (approximate)	=	Diameter in feet x Diameter in feet x Depth in feet x 6
5/64" hole in bottom of container	=	2 gallon per hour flow rate
1/8" hole in bottom of container	=	5 gallon per hour flow rate
1 drop per second	=	60 drops/minute
	=	3,600 drops/hour
	=	86,400 drops/day
	=	604,800 drops/week
	=	31,536,000 drops/year
	=	684 gallons/year
1 gallon	=	4 quarts
	=	8 pints
	=	16 cups
	=	256 tablespoons
	=	768 teaspoons
	=	3,840 ml
	=	46,080 drops
1 cup	=	16 tablespoons
	=	48 teaspoons
	=	240 ml
	=	2,880 drops
1 tablespoon	=	3 teaspoons
	=	15 ml
	=	1/2 ounce = 0.5 ounce
	=	180 drops
1 teaspoon	=	1/6 fluid ounce = 0.17 fluid ounce

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