

3-in-1 Garden Meter

model 01413



Getting Started

- Remove any stones, leaves, twigs or other debris near the test area.
- Insert the probe to a test depth of 5 in (12.7 cm).
- Leave the probe inserted for about 1 minute for the meter to stabilize its readings.
- Repeat these steps in an additional test area to confirm the accuracy of your readings.

Soil Types and Watering Information

Loam Soil:

Very porous and retains moisture well. This is the optimal soil type and can be watered normally.

Sandy Soil:

Extremely porous and drains quickly. Water slowly to saturate soil root zones.

Clay Soil:

Holds more water, but is slow to absorb and release. Do not water faster than the soil can absorb it.



SAVE THIS MANUAL FOR FUTURE REFERENCE.

General Soil Moisture Information & Tips

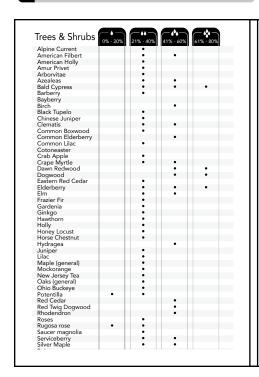
- If you have sandy or very heavy clay soils and would like to improve its water retention, add compost or organic matter to your soil.
- Adding sand to clay soils, or clay to sandy soils will create a cement-like soil, making water retention worse.
- One inch of water per week is adequate for most plants. You may use a rain gauge to assist (not included; sold separately).

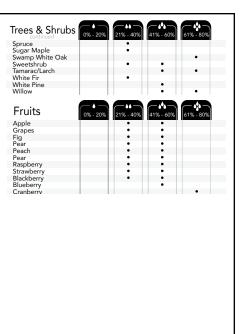
Recommended Soil Moisture Levels

The plants listed in this guide represent commonly found species. Consult a local horticulture professional for more specific details on plants not found on this list. NOTE: All vegetables require soil moisture between 41% - 80%.

O	TOLERATES EXTREMELY DRY SOIL
*	TOLERATES DRY / WELL DRAINED SOIL
14	TOLERATES MOIST SOIL
4	TOLERATES WET SOIL

Flowers	0% - 20%	21% - 40%	41% - 60%	61% - 80%
Agave	•	•		
Aster		•		
Astilbe			•	
Big Blue Stem		•		
Bleeding Heart			•	
Butterfly Weed		•		
Cactus		•		
Catmint				
Christmas Fern		•		
Coneflower				
Daffodil				
Dalia				
Daylilly		•		
Gaillardia				
Heaths/Heathers		•		
Hellebores				
Hosta		•		
Hyssop				
Iris				
Ironweed				
Jack In Pulpits				
Joe-Pye Weed				
Lavendar				
Lemon Balm				
Lily				
Lobellia				
Lupine				
Marigold				
Marsh Marigold		-		
May Apple				
Meadow Rue				
Monarda			_	
Ornamental Grasses				
Penstemon				
Peony				
Petunia			_	
Poppy (general)				
Poppy (general) Purple Coneflower				
Queen of the Prairie				
Red Milkweed				
		-		_
Sedges Sedum				•
Sod/Turfgrass	•	•		
Donesia Poposi				
Pansy			- :	
Tulip				
Violet				
Yarrow	•	•		
Yucca Zinnia		•		





General Soil pH Information & Tips

The pH of soil directly affects nutrient availability to plants. Plants thrive in different soil pH ranges, but readings outside 4 to 8 are uncommon. Some plant species are tolerant of wider pH ranges, but most prefer a neutral soil with pH levels falling within the 6 to 7 range.

7.1-8.0	ALKALINE SOIL
6.1-7.0	NEUTRAL SOIL
4.5-6.0	LOW ACID SOIL
3.5-4.4	ACIDIC SOIL

Increasing Soil pH

A common practice is to apply finely ground agricultural limestone. Depending on your soil type, different amounts of limestone will be required to adjust the soil pH value.

Decreasing Soil pH

Adding organic material such as highly acidic sphagnum peat moss will lower soil pH. Introducing elemental sulfur (90 or 99% sulfur material) or acidifying fertilizers such as ammonium sulfate with repeated use can also reduce soil pH.



Recommended Soil pH Ranges

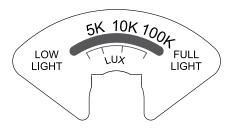
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lowers	_PH_	PH	_PH_	C PH		Vegetables	PH	PH	CPH -	PH	
lowers	3.5 - 4.4	4.5 - 6.0	6.1 - 7.0	7.1 - 8.0	1 11	vegetables	3.5 - 4.4	4.5 - 6.0	6.1 - 7.0	7.1 - 8.0	
Agave			•		⊥ II	Aspargus			•	•	
Aster			•			Basil			•		
Astilbe						Beans			•		
Big Blue Stem						Beets			•		
Bleeding Heart						Broccoli			•		
Butterfly Weed						Brussels sprout			•		
Cactus		•				Cabbage			•	•	
Catmint			•			Carrot			•		
Christmas Fern						Cauliflower			•		
Coneflower			•			Celery					
Daffodil						Chard			•		
Dalia			•			Chives					
Daylilly			•		1 1 1	Cilantro			•		
Gaillardia			•		1 1 1	Corn					
Heaths/Heathers		•				Cucumber					
Hellebores			•			Dry bean					
Hosta			•	•	1 1 1	Eggplant					
Hyssop			•			Fennel					
ris			•		1 11	Fennel					
ronweed			•			Garlic					
lack In Pulpits			•			Green Peppers					
loe-Pye Weed			•			Horseradish					
avendar			•			Kale					
emon Balm			•			Leafy Greens					
ilv			•			Lealy Greens					
-obellia						Lemon Balm					
upine			•			Lettuce					
Marigold						Lima bean					
Marsh Marigold			•			Mint Dean					
May Apple						Muskmelon/Cantaloupe					
Meadow Rue						Onion Cantaloupe					
Monarda											
Ornamental Grasses						Oregano					
enstemon						Parsley			•		
eony						Pea					
etunia						Pepper					
oppy (general)						Potato			- 1		
urple Coneflower						Pumpkin			•		
Queen of the Prairie						Radish			•		
Red Milkweed					1 1 1	Rosemary			•		
edaes						Rutabaga			•		
Sedum						Sage			•		
od/Turfgrass						Snap bean					
ansy						Soybean			•		
ulip						Spinach			•		
/iolet						Summer squash					
arrow					1 11	Thyme					
ucca					1 1 1	Tomato	1 1		•		
innia			.			Watermelon			•		
JIIIIa	1	1 1	, , ,		1 1 1	Winter squash		1	•		

General UV Information & Tips

UV light is measured in lux (lumen/sq. meter) and directly affects your plant's ability to grow.

Plants thrive in different lux ranges, but most plants require between 5k and 100k lux per day in order to convert the UV light energy into food, a process known as photosynthesis.



Recommended UV Ranges

If you are unsure what kind of light your plants require, consult a local horticulture professional for details.

5.000-10.000 lux	10 000

Low light intensity; good

for shade-loving plants.

10,000-20,000 lux

Bright but indirect light intensity; good for many types of plants that require indirect sunlight.

20,000-45,000 lux

Bright light; appropriate for plants that require good, strong light intensity.

> 45,000 lux

Strong direct sunlight; good for plants with high light requirements.

IMPORTANT

PRODUCT MUST BE REGISTERED TO RECEIVE WARRANTY SERVICE

PRODUCT REGISTRATION

Register online to receive 1 year warranty protection www.AcuRite.com

Questions? Contact Customer Support at (877) 221-1252.

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We warrant that all products we manufacture under this warranty are of good material and workmanship and, when properly installed and operated, will be free of defects for a period of one year from the date of purchase.

Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by us, and at our sole option, be repaired or replaced by us. Transportation costs and charges for returned goods shall be paid for by the purchaser. We hereby disclaim all responsibility for such transportation costs and charges. This warranty will not be breached, and we will give no credit for products which have received normal wear and tear not affecting the functionality of the product, been damaged (including by acts of nature), tampered, abused, improperly installed, or repaired or altered by others than our authorized representatives.

Remedy for breach of this warranty is limited to repair or replacement of the defective item(s). If we determine that repair or replacement is not feasible, we may, at our option, refund the amount of the original purchase price.

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In no case shall our liability for any claim relating to our products, your purchase or your use thereof, exceed the original purchase price paid for the product.

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