

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.

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 reading.
- Repeat these steps in an additional test area to confirm the accuracy of your reading.

Recommended Soil pH Ranges

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.

Flowers	PH 3.5 - 4.4	PH 4.5 - 6.0	PH 6.1 - 7.0	PH 7.1 - 8.0	Vegetables	PH 3.5 - 4.4	PH 4.5 - 6.0	PH 6.1 - 7.0	PH 7.1 - 8.0
Agave			•		Asparagus			•	•
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			•	
Daylily			•		Cilantro			•	
Gaillardia			•		Corn			•	
Heaths/Heathers		•			Cucumber			•	
Hellebores			•		Dry bean			•	
Hosta			•	•	Eggplant			•	
Hyssop			•		Fennel			•	
Iris			•		Fennel			•	
Ironweed			•		Garlic			•	
Jack In Pulpits			•		Green Peppers			•	
Joe-Pye Weed			•		Horsradish			•	
Lavender			•		Kale			•	
Lemon Balm			•		Leafy Greens			•	
Lily			•		Leek			•	
Lobelia			•		Lemon Balm			•	
Lupine			•		Lettuce			•	•
Marigold			•		Lima bean			•	
Marsh Marigold			•		Mint			•	
May Apple			•		Muskmelon/Cantaloupe			•	
Meadow Rue			•		Onion			•	
Monarda			•		Oregano			•	
Ornamental Grasses			•		Parsley			•	
Penstemon			•		Pea			•	
Peony			•		Pepper			•	
Petunia			•		Potato			•	
Poppy (general)			•		Pumpkin			•	
Purple Coneflower			•		Radish			•	
Queen of the Prairie			•		Rosemary			•	
Red Milkweed			•		Rutabaga			•	
Sedges			•		Sage			•	
Sedum			•		Snap bean			•	
Sod/Turfgrass			•		Soybean			•	
Pansy			•		Spinach			•	
Tulip			•		Summer squash			•	
Violet			•		Thyme			•	
Yarrow			•		Tomato			•	
Yucca			•		Watermelon			•	
Zinnia			•		Winter squash			•	

Recommended Soil pH Ranges

Trees & Shrubs	PH 3.5 - 4.4	PH 4.5 - 6.0	PH 6.1 - 7.0	PH 7.1 - 8.0
Alpine Current				
American Filbert				•
American Holly			•	
Amur Privet				•
Arbovitae			•	
Azaleas		•	•	
Bald Cypress			•	
Barberry			•	
Bayberry		•		
Birch			•	
Black Tupelo			•	
Chinese Juniper			•	
Clematis				•
Common Boxwood				•
Common Elderberry			•	
Common Lilac			•	•
Cotoneaster			•	
Crab Apple			•	
Crape Myrtle		•	•	
Dawn Redwood			•	
Dogwood			•	
Eastern Red Cedar			•	
Elderberry			•	
Elm			•	
Frazier Fir		•		
Gardenia		•		
Ginkgo			•	
Hawthorn			•	
Holly		•	•	
Honey Locust		•	•	
Horse Chestnut			•	
Hydragea			•	
Juniper			•	
Lilac			•	
Maple (general)			•	
Mockorange			•	
New Jersey Tea			•	•
New Jersey Tea			•	
Oaks (general)			•	
Ohio Buckeye			•	
Potentilla			•	
Red Cedar			•	
Red Twig Dogwood			•	
Rhododendron		•	•	
Roses			•	
Rugosa rose			•	
Saucer magnolia		•	•	
Serviceberry			•	
Silver Maple			•	
Spirea				•

Trees & Shrubs	PH 3.5 - 4.4	PH 4.5 - 6.0	PH 6.1 - 7.0	PH 7.1 - 8.0
Spruce				
Sugar Maple				
Swamp White Oak			•	
Sweetshrub			•	
Tamarac/Larch		•		•
White Fir			•	
White Pine		•		
Willow			•	

Fruits	PH 3.5 - 4.4	PH 4.5 - 6.0	PH 6.1 - 7.0	PH 7.1 - 8.0
Apple				
Grapes			•	
Pear			•	
Peach			•	
Pear			•	
Raspberry			•	
Strawberry			•	
Tomato			•	
Blackberry			•	
Blueberry		•		
Cranberry		•		

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) 221-125.

Limited 1-Year Warranty

AcuRite is a wholly owned subsidiary of Chaney Instrument Company. For purchases of AcuRite products, AcuRite provides the benefits and services set forth herein. For purchases of Chaney products, Chaney provides the benefits and services set forth herein.

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.

THE ABOVE-DESCRIBED WARRANTY IS THE SOLE WARRANTY FOR THE PRODUCTS AND IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ALL OTHER WARRANTIES OTHER THAN THE EXPRESS WARRANTY SET FORTH HEREIN ARE HEREBY EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

We expressly disclaim all liability for special, consequential, or incidental damages, whether arising in tort or by contract from any breach of this warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

We further disclaim liability from personal injury relating to our products to the extent permitted by law. By acceptance of any of our products, the purchaser assumes all liability for the consequences arising from their use or misuse. No person, firm or corporation is authorized to bind us to any other obligation or liability in connection with the sale of our products. Furthermore, no person, firm or corporation is authorized to modify or waive the terms of this warranty unless done in writing and signed by a duly authorized agent of ours.

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.

Applicability of Policy

This Return, Refund, and Warranty Policy applies only to purchases made in the United States and Canada. For purchases made in a country other than the United States or Canada, please consult the policies applicable to the country in which you made your purchase.

Additionally, this Policy applies only to the original purchaser of our products. We cannot and do not offer any return, refund, or warranty services if you buy products used or from resale sites such as eBay or Craigslist.

Governing Law

This Return, Refund, and Warranty Policy is governed by the laws of the United States and the State of Wisconsin. Any dispute relating to this Policy shall be brought exclusively in the federal or State courts having jurisdiction in Walworth County, Wisconsin; and purchaser consents to jurisdiction within the State of Wisconsin.