



SOIL PH

Best Soil Ph For The 100 Most Popular Plants Chart

By Andrew August 30, 2024

Find The Ideal Soil And PH For Your Plants

Struggling with plant growth or unsure if your garden soil is up to par? Discover how to provide the perfect soil type and pH range for over 100 popular plants. Our easy-to-use tool takes the guesswork out of gardening, ensuring your plants thrive with optimal conditions.

Plant Soil And PH Tool

Select a Plant:

Cactus

The ideal soil for Cactus is: Well-drained, sandy soil

The ideal soil pH for Cactus is: 5.5 to 7.0

PH Preferences For Popular Plants

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Vegetable	Ideal Soil Type	Ideal pH Range
Carrot	Well-drained, sandy loam soil	6.0 to 6.8
Tomato	Well-drained, loamy soil rich in organic matter	6.0 to 6.8
Lettuce	Well-drained, loamy soil rich in organic matter	6.0 to 7.0
Spinach	Well-drained, loamy soil rich in organic matter	6.0 to 7.0
Pepper	Well-drained, loamy soil rich in organic matter	6.0 to 6.8
Onion	Well-drained, loamy soil	6.0 to 7.0
Potato	Well-drained, loamy soil	5.5 to 6.5
Cucumber	Well-drained, loamy soil	6.0 to 7.0
Pea	Well-drained, loamy soil	6.0 to 7.0
Bean	Well-drained, loamy soil	6.0 to 7.0
Radish	Well-drained, sandy loam soil	6.0 to 7.0
Broccoli	Well-drained, fertile soil	6.0 to 7.0
Cauliflower	Well-drained, fertile soil	6.0 to 7.0
Kale	Well-drained, fertile soil	6.0 to 7.0
Brussels Sprouts	Well-drained, fertile soil	6.0 to 7.0
Zucchini	Well-drained, loamy soil rich in organic matter	6.0 to 6.8
Eggplant	Well-drained, slightly acidic sandy loam	5.5 to 7.0
Corn	Well-drained, loamy soil	5.8 to 7.0
Beets	Well-drained, loamy soil	6.0 to 7.0
Turnip	Well-drained, loamy soil	6.0 to 7.5
Sweet Potato	Well-drained, sandy or loamy soil	5.5 to 6.5
Squash	Well-drained, loamy soil rich in organic matter	6.0 to 6.8

Vegetable	Ideal Soil Type	Ideal pH Range
Garlic	Well-drained, loamy soil or sandy loam	6.0 to 7.0
Celery	Well-drained, fertile soil	6.0 to 7.0
Chard	Well-drained, fertile soil	6.0 to 7.0
Asparagus	Well-drained, sandy loam soil	7.0 to 8.0
Cabbage	Well-drained, fertile soil	6.0 to 7.0
Radicchio	Well-drained, loamy soil	6.0 to 7.0
Parsley	Well-drained, loamy soil rich in organic matter	6.0 to 7.0
Dill	Well-drained, sandy or loamy soil	5.5 to 7.0
Fennel	Well-drained, fertile soil	6.0 to 6.8
Okra	Well-drained, sandy loam soil	6.0 to 6.8
Mustard Greens	Well-drained, fertile soil	6.0 to 7.5
Artichoke	Well-drained, loamy soil	6.0 to 7.0
Leek	Moist, well-drained soil	6.0 to 7.0
Mung Beans	Well-drained, loamy or sandy soil	6.0 to 7.5
Chives	Well-drained, loamy soil	6.0 to 7.0
Endive	Well-drained, fertile soil	6.0 to 7.5
Celeriac	Well-drained, fertile soil	6.0 to 7.0
Parsnip	Deep, loose, well-drained soil	6.0 to 7.0
Peanuts	Well-drained, sandy soil	5.5 to 7.0
Pomegranate	Well-drained, slightly acidic soil	5.5 to 7.0
Quinoa	Well-drained, loamy or sandy soil	6.0 to 7.0
Raspberry	Well-drained, loamy soil rich in organic matter	5.5 to 6.5

Vegetable	Ideal Soil Type	Ideal pH Range
Strawberry	Well-drained, loamy soil rich in organic matter	5.5 to 6.5
Grapes	Well-drained, slightly sandy or loamy soil	5.5 to 6.5
Kiwi	Well-drained, loamy soil	6.0 to 7.0
Melon	Well-drained, sandy or loamy soil	6.0 to 6.8
Watermelon	Well-drained, sandy loam soil	6.0 to 7.0
Herbs	Well-drained, loamy soil	6.0 to 7.5
Oregano	Well-drained, loamy soil	6.0 to 8.0
Thyme	Well-drained, sandy or loamy soil	6.0 to 8.0
Sage	Well-drained, sandy loam soil	6.0 to 7.0
Rosemary	Well-drained, sandy or loamy soil	6.0 to 7.0
Tarragon	Well-drained, sandy soil	6.5 to 7.5
Lemon Balm	Well-drained, loamy soil	6.0 to 7.0
Chamomile	Well-drained, loamy soil	6.0 to 7.0
Anise	Well-drained, sandy loam soil	6.0 to 7.0
Cilantro	Well-drained, loamy soil	6.0 to 7.0
Cardamom	Well-drained, loamy soil	6.0 to 7.0
Fava Beans	Well-drained, loamy soil	6.0 to 6.8
Soybeans	Well-drained, loamy soil	6.0 to 6.8
Lentils	Well-drained, loamy soil	6.0 to 6.5
Navy Beans	Well-drained, loamy soil	6.0 to 6.8
Pinto Beans	Well-drained, loamy soil	6.0 to 7.0
Lima Beans	Well-drained, loamy or sandy soil	6.0 to 7.5
Cucumber	Well-drained, loamy soil	6.0 to 7.0
Endive	Well-drained, fertile soil	6.0 to 7.5

Vegetable	Ideal Soil Type	Ideal pH Range
Kohlrabi	Well-drained, loamy soil	6.0 to 7.0
Jicama	Well-drained, loamy soil	6.0 to 7.0
Beets	Well-drained, loamy soil	6.0 to 7.0
Carrots	Well-drained, sandy loam soil	6.0 to 6.8
Mushrooms	Well-drained, rich organic matter	5.5 to 6.5
Bamboo	Well-drained, loamy soil	6.0 to 7.5
Ginger	Well-drained, loamy soil	6.0 to 6.5
Turmeric	Well-drained, loamy soil	6.0 to 7.0
Horseradish	Well-drained, loamy soil	6.0 to 7.0
Wasabi	Well-drained, rich, moist soil	6.0 to

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What Is PH For Plants?

pH is a scientific measurement that indicates the acidity or alkalinity of a substance or solution, in this case, soil. The pH scale ranges from 0 to 14, with 7 being neutral, such as pure water. Values below 7 are considered acidic, while those above 7 are alkaline. For context, the pH of the human body is around 7.4.

In gardening, the pH of your soil is crucial because it affects the availability of nutrients to your plants. Most crops prefer a pH that is neutral or slightly acidic. Specifically, plants can generally survive in soil with a pH between 5.5 and 7.5, but they thrive best in a range of 6.0 to 7.0.

Why PH Matters For Plants?

When the pH of your soil falls outside the optimal range, it becomes increasingly difficult for plants to absorb nutrients and water. In both highly acidic and highly alkaline soils, chemical processes block the uptake of essential nutrients, causing plants to suffer. This is why maintaining the correct pH level is vital for plant health and productivity.

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