**SOIL PH LEVELS FOR PLANTS**

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| **Common Name** | **Optimum pH Range** | **Common Name** | **Optimum pH Range** |
| **Trees and Shrubs** | **Flowers** |
| [Apple](https://www.almanac.com/plant/apples) | 5.0-6.5 | Alyssum | 6.0-7.5 |
| Ash | 6.0-7.5 | [Aster, New England](https://www.almanac.com/plant/aster) | 6.0-8.0 |
| [Azalea](https://www.almanac.com/content/azaleas-meet-royal-family) | 4.5-6.0 | Baby’s breath | 6.0-7.0 |
| Basswood | 6.0-7.5 | Bachelor’s button | 6.0-7.5 |
| Beautybush | 6.0-7.5 | Bee balm | 6.0-7.5 |
| Birch | 5.0-6.5 | Begonia | 5.5-7.0 |
| [Blackberry](https://www.almanac.com/plant/blackberries) | 5.0-6.0 | [Black-eyed Susan](https://www.almanac.com/plant/black-eyed-susans) | 5.5-7.0 |
| [Blueberry](https://www.almanac.com/plant/blueberries) | 4.0-6.0 | Bleeding heart | 6.0-7.5 |
| Boxwood | 6.0-7.5 | [Canna](https://www.almanac.com/plant/cannas) | 6.0-8.0 |
| [Cherry, sour](https://www.almanac.com/plant/cherries) | 6.0-7.0 | Carnation | 6.0-7.0 |
| Chestnut | 5.0-6.5 | Chrysanthemum | 6.0-7.5 |
| Crab apple | 6.0-7.5 | Clematis | 5.5-7.0 |
| Dogwood | 5.0-7.0 | Coleus | 6.0-7.0 |
| Elder, box | 6.0-8.0 | [Coneflower, purple](https://www.almanac.com/plant/coneflowers) | 5.0-7.5 |
| Fir, balsam | 5.0-6.0 | [Cosmos](https://www.almanac.com/plant/cosmos) | 5.0-8.0 |
| Fir, Douglas | 6.0-7.0 | [Crocus](https://www.almanac.com/plant/crocuses) | 6.0-8.0 |
| Hemlock | 5.0-6.0 | [Daffodil](https://www.almanac.com/plant/daffodils) | 6.0-6.5 |
| [Hydrangea, blue-flowered](https://www.almanac.com/plant/hydrangea) | 4.0-5.0 | [Dahlia](https://www.almanac.com/plant/dahlias) | 6.0-7.5 |
| [Hydrangea, pink-flowered](https://www.almanac.com/plant/hydrangea) | 6.0-7.0 | [Daisy, Shasta](https://www.almanac.com/plant/shasta-daisies) | 6.0-8.0 |
| Juniper | 5.0-6.0 | Daylily | 6.0-8.0 |
| Laurel, mountain | 4.5-6.0 | [Delphinium](https://www.almanac.com/plant/delphiniums) | 6.0-7.5 |
| [Lemon](https://www.almanac.com/plant/lemons-oranges) | 6.0-7.5 | Foxglove | 6.0-7.5 |
| [Lilac](https://www.almanac.com/plant/lilacs) | 6.0-7.5 | [Geranium](https://www.almanac.com/plant/geraniums) | 6.0-8.0 |
| Maple, sugar | 6.0-7.5 | [Gladiolus](https://www.almanac.com/plant/gladiolus) | 5.0-7.0 |
| Oak, white | 5.0-6.5 | Hibiscus | 6.0-8.0 |
| [Orange](https://www.almanac.com/plant/lemons-oranges) | 6.0-7.5 | Hollyhock | 6.0-8.0 |
| [Peach](https://www.almanac.com/plant/peaches) | 6.0-7.0 | [Hyacinth](https://www.almanac.com/plant/hyacinths) | 6.5-7.5 |
| [Pear](https://www.almanac.com/plant/pears) | 6.0-7.5 | [Iris, blue flag](https://www.almanac.com/plant/irises) | 5.0-7.5 |
| Pecan | 6.4-8.0 | Lily-of-the-valley | 4.5-6.0 |
| Pine, red | 5.0-6.0 | Lupine | 5.0-6.5 |
| Pine, white | 4.5-6.0 | [Marigold](https://www.almanac.com/plant/marigolds) | 5.5-7.5 |
| [Plum](https://www.almanac.com/plant/plums) | 6.0-8.0 | [Morning glory](https://www.almanac.com/plant/morning-glories) | 6.0-7.5 |
| [Raspberry, red](https://www.almanac.com/plant/raspberries) | 5.5-7.0 | Narcissus, trumpet | 5.5-6.5 |
| [Rhododendron](https://www.almanac.com/plant/rhododendrons) | 4.5-6.0 | [Nasturtium](https://www.almanac.com/plant/nasturtium) | 5.5-7.5 |
| Spruce | 5.0-6.0 | [Pansy](https://www.almanac.com/plant/pansies) | 5.5-6.5 |
| Walnut, black | 6.0-8.0 | [Peony](https://www.almanac.com/plant/peonies) | 6.0-7.5 |
| Willow | 6.0-8.0 | [Petunia](https://www.almanac.com/plant/petunias) | 6.0-7.5 |
| **Vegetables** |
| [Asparagus](https://www.almanac.com/plant/asparagus) | 6.0-8.0 | [Phlox, summer](https://www.almanac.com/plant/phlox) | 6.0-8.0 |
|  |  | Poppy, oriental | 6.0-7.5 |
| [Bean, pole](https://www.almanac.com/plant/beans) | 6.0-7.5 | [Rose, hybrid tea](https://www.almanac.com/plant/roses) | 5.5-7.0 |
| [Beet](https://www.almanac.com/plant/beets) | 6.0-7.5 | [Rose, rugosa](https://www.almanac.com/plant/roses) | 6.0-7.0 |
| [Broccoli](https://www.almanac.com/plant/broccoli) | 6.0-7.0 | Snapdragon | 5.5-7.0 |
| [Brussels sprout](https://www.almanac.com/plant/brussels-sprouts) | 6.0-7.5 | [Sunflower](https://www.almanac.com/plant/sunflowers) | 6.0-7.5 |
| [Cabbage](https://www.almanac.com/plant/cabbage) | 6.0-7.0 | [Tulip](https://www.almanac.com/plant/tulips) | 6.0-7.0 |
| [Carrot](https://www.almanac.com/plant/carrots) | 5.5-7.0 | [Zinnia](https://www.almanac.com/plant/zinnias) | 5.5-7.0 |
| [Cauliflower](https://www.almanac.com/plant/cauliflower) | 5.5-7.5 | [Phlox, summer](https://www.almanac.com/plant/phlox) | 6.0-8.0 |
| [Celery](https://www.almanac.com/plant/celery) | 5.8-7.0 |  |  |
| [Chive](https://www.almanac.com/plant/chives) | 6.0-7.0 |  |  |
| [Cucumber](https://www.almanac.com/plant/cucumbers) | 5.5-7.0 |  |  |
| [Garlic](https://www.almanac.com/plant/garlic) | 5.5-8.0 |  |  |
| [Kale](https://www.almanac.com/plant/kale) | 6.0-7.5 |  |  |
| [Lettuce](https://www.almanac.com/plant/lettuce) | 6.0-7.0 |  |  |
| [Pea, sweet](https://www.almanac.com/plant/peas) | 6.0-7.5 |  |  |
| [Pepper, sweet](https://www.almanac.com/plant/bell-peppers) | 5.5-7.0 |  |  |
| [Potato](https://www.almanac.com/plant/potatoes) | 4.8-6.5 |  |  |
| [Pumpkin](https://www.almanac.com/plant/pumpkins) | 5.5-7.5 |  |  |
| [Radish](https://www.almanac.com/plant/radishes) | 6.0-7.0 |  |  |
| [Spinach](https://www.almanac.com/plant/spinach) | 6.0-7.5 |  |  |
| [Squash, crookneck](https://www.almanac.com/plant/squash-and-zucchini) | 6.0-7.5 |  |  |
| [Squash, Hubbard](https://www.almanac.com/plant/squash-and-zucchini) | 5.5-7.0 |  |  |
| [Tomato](https://www.almanac.com/plant/tomatoes) | 5.5-7.5 |  |  |