

MSU Extension Publication Archive

Archive copy of publication, do not use for current recommendations. Up-to-date information about many topics can be obtained from your local Extension office.

Soil Reaction (pH) Preferences of Plants
Michigan State University Agricultural Experiment Station
Special Bulletin
C.H. Spurway, Soils
Issued April 1941
35 pages

The PDF file was provided courtesy of the Michigan State University Library

Scroll down to view the publication.

SOIL REACTION (pH) PREFERENCES OF PLANTS

C. H. SPURWAY

MICHIGAN STATE COLLEGE
AGRICULTURAL EXPERIMENT STATION

SECTION OF SOILS

East Lansing

SOIL REACTION (pH) PREFERENCES OF PLANTS

COMPILED BY C. H. SPURWAY

The importance of the soil reaction as a factor in the production of economic crops is being realized more and more as knowledge of the subject accumulates. Information on the most suitable soil reaction for the various kinds of crop plants, however, was previously widely scattered in bulletins, scientific journals and trade magazines, and the grower—whether farmer, gardener or florist—did not have this information at hand in a usable form. Because of the increasing importance of soil reaction values in soil management practices, many growers have asked for serviceable information on the subject. Accordingly, the following list of plants with their soil reaction preferences has been compiled in a simple form for immediate reference.

Soils may be either acid, neutral or alkaline in reaction; but soils vary in intensity of acidity or alkalinity; hence, the soil reaction may be defined as the degree of acidity and of the alkalinity of the soil. The degree of acidity and alkalinity of soils is often stated in such terms as slightly acid, medium acid, slightly alkaline, medium alkaline. Another and far more accurate way of expressing the soil reaction is known as the pH system (pronounced by naming the letters “p”, “H”). In the pH system the soil reaction values are expressed by numbers. The whole pH scale runs from nearly 0 for the strongest acidity to about 14 for the strongest alkalinity. Each whole pH unit is commonly divided into tenths for greater accuracy. The neutral point is on pH 7.0. In general the pH range of soils is from about 3.5 to 8.5, but pH values beyond these extremes are sometimes found. Most cultivated soils, however, fall within the pH range of 4.5 to 7.5.

Because it is convenient and accurate, the pH system of expressing the soil reaction has come into general use. A practical relationship between the two systems of expressing the soil reaction is shown by the following table:

pH	pH
Very strongly acid.....4.5 and lower	Slightly alkaline.....7.1—7.5
Strongly acid4.5—5.2	Medium alkaline7.6—8.2
Medium acid.....5.3—6.4	Strongly alkaline.....8.3—9.0
Slightly acid6.5—6.9	Very strongly alkaline....9.1 and higher
Neutral7.0	

The soil reaction is an important chemical characteristic of soils. It indicates, to a certain extent, the nature of the internal chemical processes of soils which determine the state or condition of soil fertility, and which markedly affect plant growth.

Every kind of plant is believed to have a most suitable soil reaction or pH range for its best growth. Some kinds of plants grow best in a rather narrow pH range, but other kinds tolerate a wide pH range. Rarely, how-

ever, does any one kind of plant grow equally well in acid and alkaline soils, except when the reaction is close to the neutral point. In order to take advantage of the knowledge on the subject, growers should first determine the best pH range for a crop and then endeavor, by means of suitable soil management practices, to provide a soil reaction within the pH range most suited to the crop and finally to hold the soil reaction within the required limits during the period of crop growth.

The purpose of this compilation is to place the data on the pH preferences of plants in the hands of growers in a ready-reference form. The pH values given herein are considered to be the best information on the subject available at the present time; but because of the many other important factors of plant growth acting in conjunction with pH, the pH value must not be considered as the only soil condition needing adjustment for any particular soil or crop. In using the pH data, other limitations need to be considered also. The soil reaction is a major factor in good soil management practices, but the other important factors of plant growth cannot in any case be neglected. Favorable soil conditions for any crop demand a suitable soil texture, the right temperature, and an adequate plant nutrient and water supply. The best crop growth is obtained with the most favorable coincidence of all of the factors of plant growth.

For brevity, only one common name of a plant is given in the list — the one used in reporting the data. The botanical or scientific name is given also for a more accurate designation of the plant.

The optimum pH range given in the list is considered to be the most favorable for the growth of the plant provided that the other soil conditions are also favorable. In many cases the minimum and/or maximum pH limits were also reported in the literature. The minimum pH limit designates the strongest acidity, and the maximum pH limit indicates the strongest alkalinity the plant will tolerate without the possibility of serious injury.

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Abelia	<i>Abelia grandiflora</i>		6.0-8.0	
Acacia	<i>Acacia Baileyana</i>		6.0-8.0	
Acanthus, Soft	<i>Acanthus mollis</i>		6.0-7.0	
Aconite	<i>Aconitum Napellus</i>		5.0-6.0	
Actinea	<i>Actinea herbacea</i>		6.5-7.5	
Adder's-mouth, Green	<i>Malaxis unifolia</i>		4.5-5.5	
Adder's-mouth, Swamp	<i>Malaxis paludosa</i>		5.0-6.0	
Adder's-tongue, Common	<i>Ophioglossum vulgatum</i>		6.0-7.0	
Adder's-tongue	<i>Ophioglossum Engelmanni</i>		7.0-8.5	
Adder's-tongue	<i>Ophioglossum vulgatum minus</i>		4.1-5.0	6.0
Adonis	<i>Adonis aestivalis</i>		6.0-8.0	
Adonis	<i>Adonis vernalis</i>		6.0-8.0	
Aethionema	<i>Aethionema saxatile</i>		6.0-8.0	
African Daisy	<i>Dimorphotheca aurantiaca</i>		6.0-7.5	
African Marigold	<i>Tagetes erecta</i>	5.0	5.5-7.5	
African Violet	<i>Saintpaulia ionantha</i>		6.0-7.0	
Ageratum, Blue	<i>Ageratum mexicanum</i>	5.5	6.0-7.5	
Ageratum, White	<i>Ageratum Houstonianum</i>		6.0-7.0	7.5
Ailanthus	<i>Ailanthus altissima</i>		6.0-7.5	
Alder, Dwarf	<i>Fothergilla Gardeni</i>		5.0-6.0	
Alder, Speckled	<i>Alnus incana</i>		5.5-6.5	
Alfalfa	<i>Medicago sativa</i>	5.5	6.2-7.8	8.5
Almond	<i>Amygdalus communis</i>		6.0-7.0	
Almond, Flowering	<i>Prunus glandulosa</i>		6.0-7.0	
Alumroot, Common	<i>Heuchera americana</i>		5.0-6.0	
Alyssum	<i>Alyssum maritimum</i>		6.0-7.5	
Amaryllis	<i>Amaryllis Belladonna</i>		5.5-6.5	8.0
Anchusa	<i>Anchusa myosotidiflora</i>		6.0-7.5	
Andromeda, Mountain	<i>Pieris floribunda</i>		5.0-6.0	
Andromeda, Japanese	<i>Pieris japonica</i>		5.0-6.0	
Androsace	<i>Androsace alpina</i>		5.0-6.0	
Androsace	<i>Androsace carnea</i>		5.0-6.0	
Androsace	<i>Androsace imbricata</i>		5.0-6.0	
Anemone	<i>Anemone alpina</i>		6.0-8.0	
Anemone	<i>Anemone cylindrica</i>		6.0-8.0	
Anemone	<i>Anemone globosa</i>		5.0-6.5	
Anemone	<i>Anemone Halleri</i>		5.0-6.5	
Anemone	<i>Anemone zephyra</i>		5.0-6.5	
Anemone	<i>Pulsatilla vernalis</i>		5.0-6.5	
Anemone, Meadow	<i>Anemone canadensis</i>		5.0-7.5	
Anemone, Japanese	<i>Anemone japonica</i>		6.0-8.0	
Anemone, Snowdrop	<i>Anemone silvestris</i>		6.0-8.0	
Anemone, Spreading	<i>Anemone patens</i>		5.0-6.0	
Anemone, Wood	<i>Anemone nemorosa</i>		4.0-6.5	
Anemone, Wood	<i>Anemone quinquefolia</i>		4.0-5.0	
Angelica	<i>Angelica sylvestris</i>	5.5	6.5-8.0	
Anthyllis	<i>Anthyllis montana rubra</i>		5.0-6.0	
Apple	<i>Malus pumila</i>		5.0-6.5	
Apricot, Siberian	<i>Prunus sibirica</i>		6.0-7.0	
Aralia, Bristly	<i>Aralia hispida</i>		6.0-7.0	
Aralia, False	<i>Dizygotheca elegantissima</i>		6.0-7.5	
Arbor Vitae, American	<i>Thuja occidentalis</i>	5.5	6.0-7.5	
Arethusa	<i>Arethusa bulbosa</i>		4.5-5.5	
Arnica	<i>Arnica alpina</i>		5.0-6.0	
Arnica	<i>Arnica amplexicaulis</i>		5.0-6.5	
Arnica	<i>Arnica cordifolia</i>		5.0-6.5	
Arnica	<i>Arnica foliosa</i>		5.0-6.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Arnica.....	<i>Arnica mollis</i>		5.5-6.5	
Arnica.....	<i>Arnica montana</i>		4.5-5.5	
Artichoke, Jerusalem.....	<i>Helianthus tuberosus</i>	5.5	6.5-7.5	
Ash, American Mountain.....	<i>Sorbus americana</i>		4.5-5.5	
Ash, Black.....	<i>Fraxinus nigra</i>		6.0-7.5	
Ash, European Mountain.....	<i>Sorbus Aucuparia</i>		6.0-7.5	
Ash, White.....	<i>Fraxinus americana</i>		6.0-7.5	
Asparagus.....	<i>Asparagus officinalis</i>	5.5	6.0-8.0	
Aspen, American.....	<i>Populus tremuloides</i>		3.8-5.5	
Asperula.....	<i>Asperula arvensis</i>		6.0-8.0	
Asperula.....	<i>Asperula cynanchina</i>		6.0-8.0	
Asperula.....	<i>Asperula glauca</i>		6.0-8.0	
Asphodel, False.....	<i>Tofieldia calyculata</i>		6.0-8.0	
Aster.....	<i>Aster Amellus</i>		6.0-7.5	
Aster.....	<i>Aster Canbyi</i>		5.0-6.5	
Aster.....	<i>Aster hybridus luteus</i>		6.0-7.5	
Aster, Alpine.....	<i>Aster alpinus</i>		5.5-7.0	
Aster, Bigleaf.....	<i>Aster macrophyllus</i>		5.0-6.0	
Aster, Bushy.....	<i>Aster dumosus</i>		4.5-5.0	
Aster, China.....	<i>Callistephus chinensis</i>	5.5	6.5-7.0	
Aster, Double-bristled.....	<i>Ionactis linariifolia</i>		5.5-6.5	
Aster, Golden.....	<i>Chrysopsis mariana</i>		6.0-7.0	
Aster, Heath.....	<i>Aster ericoides</i>		5.5-7.0	
Aster, New England.....	<i>Aster novae-angliae</i>		6.0-8.0	
Aster, New York.....	<i>Aster novi-belgii</i>		5.0-7.5	
Aster, Sea.....	<i>Aster subulatus</i>		5.0-6.0	
Aster, Showy.....	<i>Aster spectabilis</i>		5.5-6.5	
Aster, Smooth.....	<i>Aster laciniatus</i>		5.0-6.0	
Aster, Stoke's.....	<i>Stokesia cyanea</i>		6.0-7.5	
Aster, Wave.....	<i>Aster undulatus</i>		6.0-7.0	
Aster, Zigzag.....	<i>Aster divaricatus</i>		6.0-7.0	
Aubrietia.....	<i>Aubrietia deltoidea</i>		6.0-7.5	
Avens.....	<i>Geum chilense</i>		6.0-7.5	
Avens.....	<i>Geum Peckii</i>		4.5-5.0	
Avens, Creeping.....	<i>Geum reptans</i>		6.5-7.5	
Avens, Purple.....	<i>Geum rivale</i>		5.0-8.0	
Azalea.....	<i>Rhododendrum obtusum, var. amoenum</i>		4.5-6.0	
Azalea.....	<i>Rhododendrum arborescens</i>		5.5-6.0	
Azalea.....	<i>Rhododendrum canescens</i>		4.5-5.0	
Azalea.....	<i>Rhododendrum viscosum</i>	4.0	4.5-5.0	6.0
Azalea, Alpine.....	<i>Loiseleuria procumbens</i>		4.5-5.0	
Azalea, Pink.....	<i>Rhododendrum nudiflorum</i>		4.5-5.5	
Baby's Breath.....	<i>Gypsophila elegans</i>		6.0-7.5	
Baby's Breath.....	<i>Gypsophila paniculata</i>		6.0-7.5	
Bachelor's Button.....	<i>Centaurea cyanus</i>		6.0-7.5	
Balm.....	<i>Melissa officinalis</i>		6.0-8.0	
Balm-of-Gilead.....	<i>Populus candicans</i>		6.0-8.0	
Balloon Flower.....	<i>Platycodon grandiflorum</i>		5.0-6.0	
Balsam, Garden.....	<i>Impatiens Balsamina</i>	5.5	6.0-7.5	
Baneberry, Red.....	<i>Actaea rubra</i>		6.0-8.0	
Barberry, Japanese.....	<i>Berberis Thunbergii</i>		6.0-7.5	
Barley.....	<i>Hordeum sativum</i>	5.4	6.5-7.8	
Basswood.....	<i>Tilia glabra</i>		6.0-7.5	
Bay, Loblolly.....	<i>Gordonia Lasianthus</i>		5.0-6.0	
Bayberry.....	<i>Myrica carolinensis</i>		5.0-6.0	
Bean, Bog.....	<i>Menyanthes trifoliata</i>		5.0-6.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Bean, Castor	<i>Ricinus communis</i>	5.0	6.0-7.5	
Bean, Field	<i>Phaseolus vulgaris</i>	5.0	6.0-7.5	
Bean, Horse	<i>Vicia Faba, var. equina</i>		6.0-7.0	
Bean, Kidney	<i>Phaseolus vulgaris</i>		6.0-7.5	
Bean, Lima	<i>Phaseolus limensis</i>		6.0-7.0	
Bean, Marrofat	<i>Phaseolus vulgaris</i>		6.0-7.5	
Bean, Pole	<i>Phaseolus vulgaris</i>		6.0-7.5	
Bean, Scarlet Runner	<i>Phaseolus coccineus</i>		6.0-7.5	
Bean, Snap	<i>Phaseolus vulgaris</i>		6.0-7.5	
Bean, Velvet	<i>Stizolobium Deeringianum</i>		5.5-7.0	
Bean, Wax	<i>Phaseolus vulgaris</i>		6.0-7.5	
Bearberry	<i>Arctostaphylos nevadensis</i>		5.0-6.0	
Bearberry	<i>Arctostaphylos Uva-ursi</i>		4.5-6.0	
Bearberry, Alpine	<i>Arctostaphylos alpina</i>		4.5-5.0	
Beard-Tongue	<i>Pentstemon hirsutus</i>		5.0-7.0	
Bear's Breech	<i>Acanthus mollis</i>		6.0-7.5	
Beautyberry, Chinese	<i>Callicarpa purpurea</i>		5.0-6.0	
Beauty Bush	<i>Kolkwitzia amabilis</i>		6.0-7.5	
Bedstraw	<i>Galium palustre</i>		5.0-7.5	
Bedstraw	<i>Galium parisiense</i>		6.0-8.0	
Bedstraw	<i>Galium tricornu</i>		6.0-8.0	
Bedstraw, Northern	<i>Galium boreale</i>		5.0-6.0	
Bedstraw, Rock	<i>Galium saxatile</i>		4.0-5.5	6.0
Beech	<i>Fagus grandifolia</i>		5.0-6.7	7.5
Bee Balm	<i>Monarda didyma</i>		6.0-7.5	
Beet, Mangel Wurzel	<i>Beta vulgaris, var. Cicla</i>		6.0-7.5	
Beet, Table	<i>Beta vulgaris</i>	5.5	6.0-7.5	
Beet, Sugar	<i>Beta vulgaris</i>	5.5	6.5-8.0	8.5
Beggarweed	<i>Desmodium tortuosum</i>		6.0-7.5	
Begonia	<i>Begonia meloir, var. socotrana</i> <i>hybrida</i>	4.5	5.5-7.0	8.0
Bellflower	<i>Campanula excisa</i>		5.0-6.0	
Bellflower	<i>Campanula pusilla</i>		6.0-7.5	
Bellflower	<i>Campanula Waldsteiniana</i>		5.0-6.5	
Bellflower, Marsh	<i>Campanula aparinoides</i>		7.0-8.0	
Bellwort	<i>Urtularia perfoliata</i>		6.0-7.0	
Bellwort, Large-Flowered	<i>Urtularia grandiflora</i>		6.0-8.0	
Bellwort, Sessile-Leaved	<i>Oakesia sessilifolia</i>		5.0-6.0	
Bergamot, Wild	<i>Monarda fistulosa</i>		5.0-7.5	
Betony, Wood	<i>Pedicularis canadensis</i>		6.0-7.0	
Bilberry, Bog	<i>Vaccinium uliginosum</i>		4.5-6.0	
Bindweed, Field	<i>Convolvulus arvensis</i>		6.0-7.5	
Bindweed, Hedge	<i>Convolvulus sepium</i>		6.0-7.5	
Birch, American White	<i>Betula papyrifera</i>		5.0-6.5	
Birch, Cherry	<i>Betula lenta</i>		4.5-7.0	
Birch, Dwarf	<i>Betula glandulosa</i>		5.0-6.0	
Birch, European White	<i>Betula verrucosa</i>		4.5-6.0	
Bishop's Cap	<i>Mitella diphylla</i>		5.0-6.0	
Bitterroot, Dwarf	<i>Lewisia pygmaea</i>		5.0-6.5	
Bittersweet, American	<i>Celastrus scandens</i>		4.5-6.0	
Blackberry	<i>Rubus allegheniensis</i>	4.5	5.0-6.0	
Blackberry, Thornless	<i>Rubus canadensis</i>		5.5-7.0	
Black-eyed Susan	<i>Rudbeckia hirta</i>		5.5-7.0	
Black Vetchling	<i>Lathyrus niger</i>		5.0-6.5	
Bladdernut	<i>Staphylea trifolia</i>		6.0-8.0	
Blazing Star	<i>Liatris graminifolia</i>		4.5-5.0	
Blazing Star	<i>Liatris scariosa</i>		5.0-6.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Bleeding Heart.....	<i>Dicentra spectabilis</i>		6.0-7.5	
Bleeding Heart, Fringed....	<i>Dicentra eximia</i>		5.0-6.0	
Bloodroot.....	<i>Sanguinaria canadensis</i>		5.0-6.5	
Bluebead.....	<i>Clintonia borealis</i>		4.0-5.0	
Bluebell.....	<i>Campanula rotundifolia</i>		6.0-7.5	
Blueberry.....	<i>Vaccinium erythrocarpum</i>		4.5-6.0	
Blueberry, Black High Bush.	<i>Vaccinium atrococcum</i>		4.5-6.0	
Blueberry, European.....	<i>Vaccinium Myrtillus</i>		3.5-5.0	
Blueberry, High Bush.....	<i>Vaccinium corymbosum</i>	3.4	4.0-5.0	6.5
Blueberry, Low Bush.....	<i>Vaccinium vacillans</i>		4.5-6.0	
Blueberry, Sweet.....	<i>Vaccinium pennsylvanicum</i>		4.0-5.5	
Bluegrass, Annual.....	<i>Poa annua</i>	5.3	6.0-7.0	
Bluegrass, Canada.....	<i>Poa compressa</i>	5.0	6.0-7.5	
Bluegrass, Kentucky.....	<i>Poa pratensis</i>	5.0	5.5-7.5	
Bluestem, Big.....	<i>Andropogon furcatus</i>		5.0-6.0	
Bluestem, Little.....	<i>Andropogon scoparius</i>		5.0-6.0	
Bluet.....	<i>Houstonia caerulea</i>		6.0-7.0	
Bluet, Creeping.....	<i>Houstonia serpyllifolia</i>		5.0-6.0	
Bluet, Mountain.....	<i>Centaurea montana</i>		6.0-7.5	
Bottle Brush.....	<i>Callistemon salignus</i>		6.0-7.5	
Boltonia, White.....	<i>Boltonia asteroides</i>		5.0-6.0	
Bonset.....	<i>Eupatorium perfoliatum</i>		6.0-7.5	
Bonset, Climbing.....	<i>Mikania scandens</i>		5.5-6.5	
Bowman's Root.....	<i>Gillenia trifoliata</i>		6.0-7.0	
Boxwood.....	<i>Buxus sempervirens</i>		6.0-7.5	
Bracken, Common.....	<i>Pteridium latinsculum</i>		4.5-6.0	
Bramble.....	<i>Rubus caesius</i>		6.0-8.0	
Braya.....	<i>Braya humilis</i>		6.0-8.0	
Broccoli.....	<i>Brassica oleracea, var. italica</i>		6.0-7.0	
Broom.....	<i>Cytisus nigricans</i>		5.0-6.0	
Broom Corn.....	<i>Sorghum vulgare, var. technicum</i>	4.5	5.0-6.5	
Broom, Crowberry.....	<i>Corema Conradii</i>		4.0-5.0	
Broom Sedge.....	<i>Andropogon scoparius</i>		4.5-6.0	
Brussels Sprouts.....	<i>Brassica oleracea, var. gemmifera</i>		6.0-7.5	
Buckeye, Red.....	<i>Aesculus Pavia</i>		6.0-7.0	
Buckhorn.....	<i>Plantago lanceolata</i>	5.0	5.5-6.5	
Buckhorn.....	<i>Ramnus cathartica</i>		6.0-8.0	
Buckwheat.....	<i>Fagopyrum esculentum</i>	4.5	5.5-7.0	
Buffalo Berry, Silver.....	<i>Shepherdia argentea</i>		6.0-8.0	
Bugbane, American.....	<i>Cimicifuga americana</i>		5.0-6.0	
Bougainvillea.....	<i>Bougainvillea spectabilis</i>		5.5-7.5	
Bugle Weed.....	<i>Ajuga reptans</i>		6.0-7.5	
Bulrush.....	<i>Scirpus sylvaticus</i>	5.5	6.5-8.0	
Bunchberry.....	<i>Cornus canadensis</i>		4.5-5.5	
Bupleurum.....	<i>Bupleurum fulcatum</i>		6.0-8.0	
Bupleurum.....	<i>Bupleurum ranunculoides</i>		6.0-8.0	
Bupleurum.....	<i>Bupleurum stellatum</i>		5.0-6.0	
Burnet, Canadian.....	<i>Sanguisorba canadensis</i>		6.0-8.0	
Burnet, Garden.....	<i>Sanguisorba minor</i>		6.0-8.0	
Burning Bush.....	<i>Kochia hyssopifolia</i>		5.5-7.5	
Buttercup.....	<i>Ranunculus acer</i>		5.5-8.0	
Buttercup.....	<i>Ranunculus alpestris</i>		6.5-7.5	
Buttercup.....	<i>Ranunculus fascicularis</i>		5.5-6.5	
Buttercup, Creeping.....	<i>Ranunculus repens</i>		5.0-6.0	
Butterfly Bush.....	<i>Buddleia Davidii, var. Veitchiana</i>		6.0-7.5	
Butterfly Flower.....	<i>Schizanthus retusus</i>		6.0-7.5	
Butterfly Weed.....	<i>Asclepias tuberosa</i>		5.0-6.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Button Bush	<i>Cephalanthus occidentalis</i>		6.0-8.0	
Cabbage	<i>Brassica oleracea</i> , var. <i>capitata</i>		6.0-7.5	
Cabbage, Chinese	<i>Brassica pekinensis</i>		6.0-7.5	
Caladium	<i>Caladium esculentum</i>		6.0-7.5	
Calceolaria	<i>Calceolaria hybrida</i>		6.0-7.0	
Calceolaria	<i>Calceolaria integrifolia</i>		6.0-7.0	
Calendula	<i>Calendula officinalis</i>	5.0	5.5-7.0	8.5
Calypso	<i>Calypso bulbosa</i>		6.0-7.0	
Camas	<i>Camassia esculenta</i>		6.0-8.0	
Camellia	<i>Camellia japonica</i>		4.5-5.5	
Camomile, Corn	<i>Anthemis arvensis</i>		5.0-7.5	
Camomile, Wild	<i>Matricaria inodora</i>		6.0-7.5	
Camomile, Yellow	<i>Anthemis tinctoria</i>		6.0-8.0	
Camphor Tree	<i>Cinnamomum Camphora</i>		6.0-8.0	
Campion, Moss	<i>Silene acaulis</i>		5.5-7.0	
Campion, Starry	<i>Silene stellata</i>		6.0-8.0	
Candytuft	<i>Iberis amara</i> , var. <i>Coronaria</i>		6.0-7.0	
Candytuft	<i>Iberis amara</i>		6.0-8.0	
Candytuft	<i>Iberis gibraltarica</i> , var. <i>hybrida</i>		6.0-7.5	
Candytuft	<i>Iberis pectinata</i>		6.0-7.5	
Candytuft	<i>Iberis umbellata</i>		6.0-7.5	
Candytuft, Fragrant	<i>Iberis odorata</i>		6.0-7.5	
Candytuft, Perennial	<i>Iberis sempervirens</i>		5.5-7.0	8.0
Candytuft, Persian	<i>Aethionema coridifolium</i>		5.5-7.0	
Canna	<i>Canna indica</i>		6.0-8.0	
Canna, Common	<i>Canna generalis</i>		6.0-7.0	
Cantaloupe	<i>Cucumis Melo</i>	5.5	6.0-7.5	
Canterbury Bells	<i>Campanula medium</i>		6.0-7.5	
Cardinal Climber	<i>Ipomoea cardinalis</i>		6.0-7.5	
Cardinal Flower	<i>Lobelia cardinalis</i>		5.0-6.0	
Carnation	<i>Dianthus caryophyllus</i>	5.0	6.0-7.5	
Carrot, Garden	<i>Daucus Carota</i>	5.0	5.5-7.0	
Carrot, Wild	<i>Daucus Carota</i>	4.5	5.0-6.5	
Cassiope	<i>Cassiope Mertensiana</i>		5.0-6.0	
Cassiope	<i>Cassiope tetragona</i>		5.0-6.5	
Cassiope (Moss Bush)	<i>Cassiope hypnoides</i>		4.5-5.5	
Catalpa, Western	<i>Catalpa speciosa</i>		6.0-8.0	
Catchfly	<i>Silene compacta</i>		5.5-6.5	
Catchfly	<i>Silene Hookeri</i>		6.0-7.0	
Catchfly	<i>Silene virginica</i>		5.0-7.5	
Catchfly, Alpine	<i>Silene alpestris</i>		6.5-7.5	
Cat's Ear	<i>Hypochaeris radiata</i>		5.5-7.0	
Cauliflower	<i>Brassica oleracea</i> , var. <i>botrytis</i>		5.5-7.5	
Cedar, Red	<i>Juniperus virginiana</i>	5.0	5.5-7.0	
Cedar, White	<i>Chamaecyparis thyoides</i>		4.5-5.0	6.0
Cedronella	<i>Cedronella cana</i>		6.0-7.5	
Celandine	<i>Chelidonium majus</i>		6.0-8.0	
Celandine Poppy	<i>Stylophorum diphyllum</i>		6.0-8.0	
Celery	<i>Apium graveolens</i> , var. <i>dulce</i>		5.8-7.0	
Centaury	<i>Centaurium Massoni</i>		5.0-6.5	
Chaerophyllum	<i>Chaerophyllum hirsutum</i>		5.0-6.0	
Chaffweed	<i>Centunculus minimus</i>		5.0-6.0	
Chara, Stinking	<i>Chara vulgaris</i>	7.0	7.5-8.5	
Charlock	<i>Brassica arvensis</i>		6.0-7.5	
Chaste Tree	<i>Vitex Agnus-castus</i>		6.0-7.0	
Cheat	<i>Bromus secalinus</i>		6.0-8.0	
Cherry, Cornelian	<i>Cornus Mas</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Cherry, Pin	<i>Prunus pennsylvanica</i>		5.0-6.0	
Cherry, Sour	<i>Prunus Cerasus</i>		6.0-7.0	
Cherry, Saint Lucie	<i>Prunus Mahaleb</i>		6.0-8.0	
Cherry, Sweet	<i>Prunus avium</i>		6.0-7.5	
Chestnut, American	<i>Castanea dentata</i>		5.0-6.5	
Chickweed	<i>Stellaria media</i>		6.0-7.5	
Chickweed	<i>Stellaria borealis</i>		4.5-5.5	
Chicory	<i>Cichorium Intybus</i>		5.0-6.5	
China Pink	<i>Dianthus chinensis</i>		6.0-7.5	
Chinese Lantern	<i>Physalis Francheti</i>		6.0-7.5	
Chinquapin	<i>Castanea pumila</i>		5.0-6.0	
Chives	<i>Allium Schoenoprasum</i>		6.0-7.0	
Chokeberry, Black	<i>Arenia melanocarpa</i>		5.0-6.0	
Chokeberry, Red	<i>Arenia arbutifolia</i>		5.0-6.0	
Choke Cherry	<i>Prunus virginiana</i>		6.0-8.0	
Chrysanthemum	<i>Chrysanthemum coccineum</i>		5.5-6.5	
Chrysanthemum	<i>Chrysanthemum hortorum</i>	5.0	5.8-7.0	7.5
Chrysanthemum	<i>Chrysanthemum morifolium</i>	5.0	6.0-7.5	8.2
Chrysanthemum (Pompom)	<i>Chrysanthemum morifolium</i>	5.0	6.0-7.5	8.0
Cineraria	<i>Senecio cruentus</i>		5.5-7.0	7.5
Cinquefoil	<i>Potentilla arenaria</i>		6.0-8.0	
Cinquefoil	<i>Potentilla argentea</i>		5.5-6.5	7.0
Cinquefoil	<i>Potentilla caulescens</i>		6.0-8.0	
Cinquefoil	<i>Potentilla erecta</i>		4.0-5.5	
Cinquefoil	<i>Potentilla Saxifraga</i>		6.5-7.5	
Cinquefoil, Dwarf	<i>Potentilla frigida</i>		5.0-6.0	
Cinquefoil, Shrubby	<i>Potentilla fruticosa</i>		6.0-7.0	
Cinquefoil, Wine-leaf	<i>Potentilla tridentata</i>		4.5-6.0	
Clarkia	<i>Clarkia elegans</i>		6.0-6.5	
Cleavers (Goose Grass)	<i>Galium aparine</i>		6.0-7.5	
Clematis (Virgin's Bower)	<i>Clematis paniculata</i>		6.0-7.0	
Clematis	<i>Clematis Jackmani</i>		5.5-7.0	
Clematis, Curly	<i>Clematis crispa</i>		5.5-6.5	
Clethra, Cinnamon	<i>Clethra acuminata</i>		5.0-6.0	
Cliff Brake	<i>Cryptogramma Stelleri</i>		6.0-8.0	
Cliff Brake	<i>Pellaea glabella</i>		7.0-8.0	
Cliff Brake	<i>Pellaea atropurpurea</i>	5.5	6.0-8.0	8.5
Clintonia, Speckled	<i>Clintonia umbellata</i>		5.0-6.0	
Cloudberry	<i>Rubus Chamaemorus</i>		4.5-6.0	
Clover	<i>Trifolium alpinum</i>		5.0-6.0	
Clover	<i>Trifolium pallescens</i>		5.0-6.0	
Clover	<i>Trifolium saxatile</i>		5.0-6.0	
Clover, Alsike	<i>Trifolium hybridum</i>	5.0	5.5-7.5	
Clover, Bur	<i>Medicago denticulata</i>		5.0-6.5	
Clover, Bush Purple	<i>Lespedeza formosa</i>		6.0-7.0	
Clover, Crimson	<i>Trifolium incarnatum</i>	5.0	5.5-7.0	
Clover, Egyptian Berseem	<i>Trifolium alexandrinum</i>		6.0-7.5	
Clover, Hubam	<i>Medicago alba, var. annua</i>	5.0	6.0-7.5	
Clover, Hungarian	<i>Trifolium pannonicum</i>		6.0-7.5	
Clover, Japan	<i>Lespedeza striata</i>		5.5-6.5	
Clover, Mammoth Red	<i>Trifolium pratense perenne</i>	5.0	5.5-7.5	
Clover, Red	<i>Trifolium pratense</i>	5.5	6.0-7.5	
Clover, Stone	<i>Trifolium arvense</i>		5.0-6.0	
Clover, Subterranean	<i>Trifolium subterraneum</i>		6.0-7.0	
Clover, White Sweet	<i>Medicago alba</i>	5.5	6.5-7.5	
Clover, Yellow Sweet	<i>Medicago officinalis</i>	5.5	6.5-7.5	
Clover, White	<i>Trifolium repens</i>	5.0	5.6-7.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Clover, Yellow	<i>Trifolium agrarium</i>	4.0	4.5-6.0	
Clover, Yellow	<i>Trifolium filiforme</i>		6.0-7.5	
Club Moss	<i>Lycopodium annotinum</i>		4.5-5.0	
Club Moss	<i>Lycopodium inundatum</i>		6.0-8.0	
Club Moss	<i>Lycopodium Selago</i>		4.5-5.0	
Club Moss, Pine-barren	<i>Lycopodium depressum</i>		4.5-5.0	
Cockle, Corn	<i>Agrostemma Githago</i>		5.5-7.0	
Cockle, White	<i>Lychnis alba</i>		5.5-7.0	
Cockscomb	<i>Celosia argentea, var. cristata</i>		6.0-7.5	
Cohosh, Blue	<i>Caulophyllum thalictroides</i>		6.0-8.0	
Coleus	<i>Coleus Blumei</i>		6.0-7.0	
Collards	<i>Brassica oleracea, var. acephala</i>		6.0-7.5	
Coltsfoot, Common	<i>Tussilago Farfara</i>	5.5	6.0-8.0	
Columbine	<i>Aquilegia canadensis</i>		5.5-7.0	
Columbine	<i>Aquilegia flabellata</i>		5.5-6.5	
Columbine	<i>Aquilegia pyrenaica</i>		6.5-7.5	
Columbine	<i>Aquilegia vulgaris</i>		6.0-7.5	
Columbine, Altai	<i>Aquilegia glandulosa</i>		5.0-6.5	
Columbine, Colorado	<i>Aquilegia caerulea</i>		6.0-7.0	
Columbine, Golden	<i>Aquilegia chrysantha</i>		6.0-7.0	
Cone Flower, Purple	<i>Echinacea purpurea</i>		5.0-7.5	
Convolvulus	<i>Convolvulus cneorum</i>		6.0-8.0	
Coral Bells	<i>Heuchera sanguinea</i>		6.0-7.0	
Coral Berry	<i>Symphoricarpos orbiculatus</i>		5.5-7.5	
Coral Root	<i>Corallorrhiza micrantha</i>	6.0	6.5-7.0	7.5
Coral Root, Crested	<i>Hexaletris spicata</i>	6.0	6.5-7.0	7.5
Coral Root, Early	<i>Corallorrhiza trifida</i>	5.5	6.0-7.0	7.5
Coral Root, Large	<i>Corallorrhiza maculata</i>	4.5	5.0-6.0	6.5
Coral Root, Small	<i>Corallorrhiza odontorhiza</i>	4.5	5.0-6.5	7.0
Coral Root, Striped	<i>Corallorrhiza striata</i>	6.0	6.0-7.0	7.5
Coral Root, Wister's	<i>Corallorrhiza Wisteriana</i>	5.0	5.5-6.5	7.5
Coreopsis, Trefoil	<i>Coreopsis sp.</i>		5.0-6.0	
Cornflower	<i>Centaurea cyanus</i>	5.0	6.0-6.5	7.0
Corn, Indian	<i>Zea Mays</i>	5.0	5.5-7.5	
Corn, Pop.	<i>Zea Mays, var. everta</i>		6.0-7.5	
Corn, Sweet	<i>Zea Mays, var. rugosa</i>	5.0	5.5-7.5	
Corn Salad	<i>Valerianella Locusta, var. olitoria</i>		5.0-6.0	
Coronilla	<i>Coronilla cappadocica</i>		6.5-7.5	
Coronilla	<i>Coronilla minima</i>		6.5-7.5	
Coronilla	<i>Coronilla montana</i>		6.0-8.0	
Coronilla	<i>Coronilla vaginalis</i>		6.0-8.0	
Corydalis, Pale	<i>Corydalis sempervirens</i>		6.0-8.0	
Cosmos, Common	<i>Cosmos bipinnatus</i>	4.5	5.0-8.0	
Cotton, Upland	<i>Gossypium hirsutum</i>		5.0-6.0	
Cotton, Sea Island	<i>Gossypium barbadense</i>		5.0-6.0	
Cotoneaster	<i>Cotoneaster tomentosus</i>		6.0-8.0	
Cotoneaster, Rock	<i>Cotoneaster horizontalis</i>		6.0-7.0	
Cottonwood	<i>Populus Fremonti</i>		6.0-8.0	
Cowberry	<i>Vaccinium Vitis-idaea</i>		5.0-6.0	
Cowpea	<i>Vigna sinensis</i>	4.5	5.0-6.5	7.0*
Cow Wheat	<i>Melampyrum lineare</i>		4.0-5.0	
Coxcomb	<i>Celosia plumosa</i>		6.0-7.5	
Crab Apple	<i>Malus prunifolia</i>		6.0-7.5	
Crab, Japanese Flowering	<i>Malus floribunda</i>		5.0-6.5	
Cranberry, Large	<i>Vaccinium macrocarpon</i>		4.2-5.0	6.0
Cranberry, Mountain	<i>Vaccinium Vitis-idaea minus</i>		5.0-6.0	

*For disease control-Mildew.

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Cranberry, Small	<i>Vaccinium oxycoccus</i>		4.2-5.0	6.0
Cranberry, Bush	<i>Viburnum americanum</i>		6.5-7.5	
Cranesbill	<i>Geranium pusillum</i>		6.0-7.5	
Cress, Bitter	<i>Cardamine hirsuta</i>		5.0-6.0	
Cress, Bitter	<i>Cardamine impatiens</i>		5.0-6.0	
Cress, Bitter	<i>Cardamine resedifolia</i>		5.0-6.0	
Cress, Garden	<i>Lepidium sativum</i>		6.0-7.0	
Cress, Penny	<i>Thlaspi corymbosum</i>		5.0-6.0	
Cress, Penny	<i>Thlaspi rotundifolium</i>		6.0-8.0	
Cress, Winter	<i>Barbarea vulgaris</i>	5.0	5.5-6.5	
Crocus	<i>Crocus speciosus</i>		6.0-8.0	
Crocus, Common	<i>Crocus vernus</i>		6.0-8.0	
Crowberry, Black	<i>Empetrum nigrum</i>		4.5-5.5	
Crowberry, Broom	<i>Corema Conradii</i>		4.0-5.0	
Crowfoot	<i>Ranunculus parnassifolius</i>		6.0-8.0	
Cucumber	<i>Cucumis sativus</i>		5.5-7.0	8.0
Cucumber, Indian	<i>Medeola virginiana</i>		4.0-7.0	
Cucumber Tree	<i>Magnolia acuminata</i>		5.0-6.0	
Cuckoo Flower	<i>Cardamine pratensis</i>		6.0-7.0	
Cudweed	<i>Gnaphalium norvegicum</i>		5.0-6.0	
Cudweed	<i>Gnaphalium silvaticum</i>		5.0-6.0	6.5
Culver's Root	<i>Veronica virginica</i>		5.0-7.5	
Cuphea	<i>Cuphea platycentra</i>		6.0-7.5	
Currant, Black	<i>Ribes nigrum</i>		6.0-7.5	
Currant, Scarlet	<i>Ribes sanguineum</i>		6.0-8.0	
Currant, Red	<i>Ribes sativum</i>		5.5-7.0	
Cyclamen	<i>Cyclamen persicum</i>	4.5	6.0-7.0	7.5
Cynoglossum	<i>Cynoglossum amabile</i>		6.0-7.5	
Cyperus, Low	<i>Cyperus diandrus</i>		6.0-8.0	
Cyperus, Pine Barren	<i>Cyperus Torreyi</i>		4.5-5.0	
Cypress, Bald	<i>Taxodium distichum</i>		5.5-6.5	
Cypress, Hinoki	<i>Chamaecyparis obtusa</i>		5.0-6.0	
Daffodil	<i>Narcissus Bulbocodium</i>		6.0-6.5	
Dahlia, Common	<i>Dahlia variabilis</i>		6.0-7.5	
Dahoon	<i>Ilex Cassine</i>		5.0-6.0	
Daisy	<i>Chrysanthemum atratum</i>		6.0-6.5	7.5
Daisy	<i>Chrysanthemum alpinum</i>		4.5-7.0	
Daisy, Ox-eye	<i>Chrysanthemum Leucanthemum</i>		6.0-7.5	
Daisy, White	<i>Chrysanthemum articum</i>		6.0-7.5	
Daisy, Shasta	<i>Chrysanthemum maximum</i>		6.0-8.0	
Dalibarda, Creeping	<i>Dalibarda repens</i>		5.0-6.0	
Dandelion	<i>Taraxacum officinalis</i>	5.0	5.5-7.0	8.5
Dandelion, Fall	<i>Leontodon autumnalis</i>		5.0-8.0	
Dangleberry	<i>Gaylussacia frondosa</i>		4.5-6.0	
Daphne, February	<i>Daphne Mezereum</i>		6.0-7.0	
Daphne, Rose	<i>Daphne cneorum</i>	5.0	6.5-7.5	8.0
Day Lily, Tawny	<i>Hemerocallis fulva</i>		6.0-8.0	
Deerberry	<i>Vaccinium stamineum</i>		5.0-6.0	
Delphinium	<i>Delphinium grandiflorum</i>		6.0-7.5	
Deutzia	<i>Deutzia gracilis</i>		6.0-7.5	
Deutzia	<i>Deutzia Lemoinei</i>		6.0-8.0	
Devil's Bit	<i>Chamaelirion luteum</i>		5.0-6.0	
Dewberry	<i>Rubus flagellaris</i>	4.0	4.5-6.0	
Dewberry, Swamp	<i>Rubus hispidus</i>		5.0-6.0	
Diapensia	<i>Diapensia lapponica</i>		4.5-5.0	
Dock, Curled	<i>Rumex crispus</i>		6.0-7.5	
Dock, White	<i>Rumex pallidus</i>		5.0-6.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Dodder, Field	<i>Cuscuta pentagona</i>		5.5-7.0	
Dogbane, Spreading	<i>Apocynum androsaemifolium</i>		6.0-7.0	
Dogwood, Flowering	<i>Cornus florida</i>		5.0-7.0	
Dogwood, Goldentwig	<i>Cornus stolonifera flaviramea</i>		6.0-7.0	
Dragon Head, False	<i>Physostegia virginiana</i>		5.0-7.5	
Dutchman's Breeches	<i>Dicentra Cucullaria</i>		6.0-8.0	
Dropwort	<i>Filipendula hexapetala</i>		6.0-7.0	
Dutchman's Pipe	<i>Aristolochia Siphon</i>		6.0-8.0	
Easterbells	<i>Stellaria Holostea</i>		5.0-6.0	
Edelweiss	<i>Leontopodium alpinum</i>		6.5-7.5	
Egg Plant	<i>Solanum Melongena</i> , var. <i>esculentum</i>		5.5-6.5	6.0*
Elder, Box	<i>Acer Negundo</i>		6.0-8.0	
Elephant's Ear	<i>Caladium esculentum</i>		6.0-7.5	
Elm, American White	<i>Ulmus americana</i>		6.0-7.5	
Emmer	<i>Triticum dicoccum</i>		6.0-7.5	
Endive	<i>Cichorium Endivia</i>		5.5-7.0	
Enkianthus, Nikko	<i>Enkianthus subsessilis</i>		5.0-6.0	
Enkianthus, Red-veined	<i>Enkianthus campanulatus</i>		5.0-6.0	
Euonymus, Winged	<i>Euonymus alatus</i>		5.5-7.0	
Epimedium, Japanese	<i>Epimedium Musschianum</i>		6.0-7.5	
Eucalyptus	<i>Eucalyptus rostrata</i>		6.0-8.0	
Eulalia	<i>Miscanthus sinensis</i>		6.0-7.0	
Everlasting, Pearly	<i>Anaphalis margaritacea</i>		5.0-6.0	
Eyebright	<i>Euphrasia alpina</i>		5.0-6.0	
Fairybells	<i>Disporum lanuginosum</i>		5.0-6.0	
False Indigo, Blue	<i>Baptisia australis</i>		5.0-6.5	
Featherfleece	<i>Stenanthium robustum</i>		4.0-5.0	
Feather Flower	<i>Celosias floribunda</i>		6.0-7.5	
Fennel	<i>Foeniculum vulgare</i>		5.0-6.0	
Fennel Flower	<i>Nigella arvensis</i>		6.0-8.0	
Fern, Bladder	<i>Cystopteris bulbifera</i>	5.0	6.5-8.0	8.5
Fern, Boot's Shield	<i>Thelypteris Boottii</i>		4.5-7.0	8.0
Fern, Boston	<i>Nephrolepis exaltata bostoniensis</i>		5.5-6.5	
Fern, Braun's Holly	<i>Polystichum Braunii</i>	5.5	6.0-7.5	8.0
Fern, Broad Beech	<i>Thelypteris hexagonoptera</i>	5.0	6.5-7.5	
Fern, Brittle Bladder	<i>Cystopteris fragilis</i>	5.0	6.0-8.0	8.5
Fern, Chain	<i>Woodwardia areolata</i>		4.0-6.0	7.5
Fern, Christmas	<i>Polystichum acrostichoides</i>		6.0-7.5	8.0
Fern, Cinnamon	<i>Osmunda cinnamomea</i>		4.5-5.5	6.5
Fern, Cliff	<i>Woodsia alpina</i>	5.5	7.0-7.5	
Fern, Cliff	<i>Woodsia glabella</i>	5.5	7.0-7.5	
Fern, Cliff	<i>Woodsia ilvensis</i>		5.0-6.0	7.0
Fern, Climbing	<i>Logodium palmatum</i>		4.0-5.0	
Fern, Crested Shield	<i>Thelypteris cristata</i>	4.5	5.0-7.0	8.0
Fern, Curly Grass	<i>Schizaea pusilla</i>		4.0-5.0	
Fern, Evergreen Shield	<i>Thelypteris marginalis</i>	5.0	6.0-7.5	8.5
Fern, Goldie's Shield	<i>Thelypteris Goldiana</i>		6.0-8.0	
Fern, Fragrant Wood	<i>Thelypteris fragrans</i>	5.0	6.0-7.5	
Fern, Hairy Lip	<i>Cheilanthes lanosa</i>	5.0	5.5-6.5	7.5
Fern, Hart's Tongue	<i>Phyllitis Scolopendrium</i>		7.0-8.0	
Fern, Grape	<i>Botrychium ternatum</i>		5.0-6.0	
Fern, Hay Scented	<i>Dennstaedtia punctilobula</i>		4.0-7.0	
Fern, Holly	<i>Polystichum Lonchitis</i>		4.5-6.0	
Fern, Highland Lady	<i>Athyrium angustum</i>	4.5	6.0-7.0	
Fern, Intermediate Shield	<i>Thelypteris intermedia</i>		6.0-7.0	8.0

*For disease control.

Common Name	Botanical Name	Minimum pH limit	Opti- mum pH range	Maxi- mum pH limit
Fern, Interrupted.....	<i>Osmunda Claytoniana</i>	4.5	5.0-7.0	7.5
Fern, Long Beech.....	<i>Thelypteris Phegopteris</i>	4.5	6.0-7.5	8.0
Fern, Lowland Lady.....	<i>Athyrium asplenoides</i>	4.5	5.5-7.5	8.0
Fern, Maidenhair.....	<i>Adiantum pedatum</i>		6.0-8.0	
Fern, Male.....	<i>Thelypteris Felix-mas</i>		6.0-8.0	
Fern, Marsh Shield.....	<i>Thelypteris palustris</i>		4.0-6.0	
Fern, Massachusetts.....	<i>Thelypteris simulata</i>		4.0-5.0	
Fern, Mountain.....	<i>Thelypteris oreopteris</i>		5.0-6.0	
Fern, Mountain Bladder.....	<i>Cystopteris montana</i>		6.0-8.0	
Fern, New York.....	<i>Thelypteris noroboracensis</i>		4.0-7.0	
Fern, Northern Spleen.....	<i>Asplenium septentrionale</i>		5.0-6.0	
Fern, Oak.....	<i>Thelypteris Dryopteris</i>	5.0	6.0-7.0	7.5
Fern, Ostrich.....	<i>Pteritis nodulosa</i>	6.0	6.5-7.5	
Fern, Rigid Shield.....	<i>Dryopteris rigida</i>		6.0-8.0	
Fern, Robert's Shield.....	<i>Thelypteris Robertiana</i>		6.0-8.0	
Fern, Royal.....	<i>Osmunda regalis</i>		4.0-6.0	
Fern, Sensitive.....	<i>Onoclea sensibilis</i>	4.5	5.5-7.5	8.0
Fern, Spinulose Shield.....	<i>Thelypteris spinulosa</i>		4.5-6.0	8.0
Fern, Virginia Chain.....	<i>Woodwardia virginica</i>		4.0-6.0	
Fern, Walking Leaf.....	<i>Camplosorus rhizophyllus</i>	5.5	6.0-8.5	
Fern, Woodsia.....	<i>Woodsia obtusa</i>	5.0	6.5-8.0	
Fern, Woolly Lip.....	<i>Cheilanthes tomentosa</i>		5.5-6.5	7.5
Fescue.....	<i>Festuca alpina</i>		6.0-8.0	
Fescue.....	<i>Festuca pulchella</i>		6.0-8.0	
Fescue.....	<i>Festuca rupicaprina</i>		6.0-8.0	
Fescue.....	<i>Festuca varia</i>		6.0-8.0	
Fescue, Chewing's.....	<i>Festuca rubra, var. fallax</i>		5.5-6.5	
Fescue, Fine-leaved.....	<i>Festuca capitata</i>	5.0	6.5-7.5	
Fescue, Meadow.....	<i>Festuca pratensis</i>		4.5-7.0	
Fescue, Red.....	<i>Festuca rubra, var. genuina</i>		5.5-6.5	
Fescue, Sheep's.....	<i>Festuca ovina</i>		4.5-6.0	6.5
Fescue, Tall or Meadow.....	<i>Festuca elatior</i>	5.5	6.5-8.0	
Feterita.....	<i>Andropogon Sorghum,</i> <i>var. caudatus</i>		5.0-6.5	
Fetter Bush.....	<i>Leucothoe Catesbaei</i>		4.5-6.0	
Figwort.....	<i>Scrophularia leporella</i>		5.0-6.5	
Figwort.....	<i>Scrophularia marilandica</i>		6.0-7.0	
Fir, Balsam.....	<i>Abies balsamea</i>	4.5	5.0-6.0	
Fir, Douglas.....	<i>Pseudotsuga taxifolia</i>		6.0-7.0	
Fir, Fraser.....	<i>Abies Fraseri</i>		4.5-5.0	6.0
Firethorn.....	<i>Pyracantha coccinea</i>		6.0-8.0	
Fireweed.....	<i>Epilobium angustifolium</i>		5.5-6.5	
Flame Vine.....	<i>Pyrostegia venusta</i>		5.5-7.0	
Flax.....	<i>Linum usitatissimum</i>		5.0-7.0	
Flax, New Zealand.....	<i>Phormium tenax</i>		6.0-8.0	
Flax, Southern Wild.....	<i>Linum floridanum</i>		4.5-5.0	
Fleabane.....	<i>Erigeron Coulteri</i>		5.0-6.5	
Fleabane.....	<i>Erigeron glabratus</i>		6.0-8.0	
Fleabane.....	<i>Erigeron hyssopifolius</i>		6.5-7.5	
Fleabane.....	<i>Erigeron salsuginosus</i>		5.0-6.5	
Fleeceflower.....	<i>Polygonum Sieboldi</i>		6.0-8.0	
Fleece Vine.....	<i>Polygonum Auberti</i>		6.0-7.5	
Forget-me-not.....	<i>Myosotis scorpioides</i>		6.0-8.0	
Four-O'Clock.....	<i>Mirabilis Jalapa</i>		6.0-7.5	
Foxglove.....	<i>Digitalis purpurea</i>		6.0-7.5	
Foxtail, Meadow.....	<i>Alopecurus pratensis</i>	5.0	6.0-7.5	
Foxtail, Yellow.....	<i>Setaria lutescens</i>		5.0-6.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Foxtail, Green	<i>Setaria viridis</i>		5.0-6.5	
Franklinia	<i>Gordonia alata</i>		5.0-6.0	
Freesia, Colored	<i>Freesia hybrida</i>		6.0-7.5	
French Marigold	<i>Tagetes palula</i>	4.5	5.0-7.5	
Fringe Tree, White	<i>Chionanthus virginica</i>		5.0-6.0	
Fritillaria	<i>Fritillaria meleagris</i>		6.0-7.5	
Frostweed	<i>Helianthemum canadense</i>		4.5-5.0	
Fuchsia, Common	<i>Fuchsia hybrida</i>		5.5-6.5	7.5
Fumitory, Climbing	<i>Adlumia fungosa</i>		6.0-7.0	
Fumitory, Rock	<i>Fumaria officinalis</i>		5.0-6.0	
Furze	<i>Ulex europaeus</i>		4.5-6.0	
Gaillardia	<i>Gaillardia aristata</i>	5.5	6.0-7.5	
Galax	<i>Galax aphylla</i>		4.5-6.0	
Gardenia	<i>Gardenia Veitchi</i>		5.0-6.0	
Garlic	<i>Allium sativum</i>		5.5-8.0	
Garlic, Wild	<i>Allium canadense</i>		4.5-6.0	
Gazania, Stemless	<i>Gazania longiscapa</i>		5.5-7.0	
Genista	<i>Cytissus racemosus</i>		6.5-7.5	
Gentian	<i>Gentiana calycosa</i>		5.0-6.0	
Gentian	<i>Gentiana excisa</i>		4.5-6.0	
Gentian	<i>Gentiana Romanzovii</i>		5.0-6.5	
Gentian	<i>Gentiana procera</i>		7.0-8.0	
Gentian	<i>Gentiana setosa</i>		5.0-6.0	
Gentian, Closed	<i>Gentiana Andrewsii</i>		5.0-6.0	
Gentian, Fringed	<i>Gentiana crinita</i>		6.0-8.0	
Gentian, Fringed	<i>Gentiana ciliata</i>		6.0-8.0	
Gentian, Prairie	<i>Gentiana Parryi</i>		6.0-8.0	
Gentian, Stemless	<i>Gentiana acaulis</i>		6.0-8.0	
Geranium	<i>Pelargonium domesticum</i>	5.0	6.0-8.0	
Geranium, Wild	<i>Geranium maculatum</i>		5.0-6.5	
Germander	<i>Teucrium Botrys</i>		6.0-8.0	
Germander	<i>Teucrium marum</i>		6.0-8.0	
Germander	<i>Teucrium montanum</i>		6.0-8.0	
Germander, Sage-leaved	<i>Teucrium Scorodonia</i>		5.0-6.0	
Geum	<i>Geum Borealis</i>		6.0-7.5	
Gherkin, West Indian	<i>Cucumis anguria</i>		5.5-7.0	
Gilia	<i>Gilia capitata</i>		6.0-8.0	
Ginger, Wild	<i>Asarum canadense</i>		6.0-8.0	
Ginseng, American	<i>Panax quinquefolium</i>		6.0-8.0	
Gladiolus	<i>Gladiolus primilinus</i>		6.0-7.0	
Globeflower, Common	<i>Trollius europaeus</i>		5.5-7.0	
Globeflower, Ledebour	<i>Trollius Ledebouri</i>		5.0-6.0	
Gloxinia	<i>Sinningia speciosa</i>		5.5-6.5	
Goat's Rue, European	<i>Galaga officinalis</i>		6.0-7.5	
Goat's Rue, American	<i>Tephrosia virginiana</i>		6.0-8.0	
Godetia	<i>Godetia grandiflora</i>		6.0-7.5	
Golden Alexanders	<i>Zizia aurea</i>		6.0-8.0	
Golden Bell	<i>Forsythia intermedia</i>		6.0-7.5	
Golden Bell	<i>Forsythia suspensa</i> , var. <i>Fortunei</i>		5.0-6.5	
Golden Chain	<i>Laburnum anagyroides</i>		6.0-8.0	
Goldencup	<i>Hunnemannia fumariaefolia</i>		6.0-7.5	
Golden Feather	<i>Chrysanthemum pacaltum aureum</i>		5.0-6.5	
Goldenrod	<i>Solidago juncea</i>		5.0-7.5	
Goldenrod	<i>Solidago rugosa</i>		5.0-6.5	
Goldenrod	<i>Solidago speciosa</i>		5.0-7.5	
Goldenrod, Blue-stemmed	<i>Solidago caesia</i>		5.0-7.0	
Goldenrod, Fragrant	<i>Solidago odora</i>		5.0-6.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Goldenrod, Oldfield	<i>Solidago nemoralis</i>		5.0-6.0	
Goldenrod, Pine-barren	<i>Solidago fistulosa</i>		4.5-5.0	
Goldenseal	<i>Hydrastis canadensis</i>		5.0-6.0	
Goldstar	<i>Chrysogonum virginianum</i>		6.0-7.0	
Goldenthrum	<i>Coptis groenlandica</i>		4.5-5.0	
Goldentuft	<i>Alyssum saxatile</i>		5.5-6.5	
Gooseberry, American	<i>Ribes hirtellum</i>		5.0-6.5	
Gourd	<i>Lagenaria vulgaris</i>		6.0-7.0	
Grape, Fox	<i>Vitis labrusca</i>		5.5-7.0	
Grapefruit	<i>Citrus maxima</i>		6.0-7.5	8.3
Grape Hyacinth	<i>Muscari botryoides</i>		6.0-7.5	
Grass, Arrow	<i>Scheuchzeria palustris</i>		4.5-6.0	
Grass, Barnyard	<i>Echinochloa crusgalli</i>		5.0-6.5	
Grass, Bermuda	<i>Cynodon dactylon</i>		6.0-7.0	
Grass, Bluejoint	<i>Calamagrostis canadensis</i>		7.0-8.2	
Grass, Bottle-brush	<i>Hystrix patula</i>		6.0-7.0	
Grass, Brome, Awnless	<i>Bromus inermis</i>		6.0-8.0	
Grass, Brome, Fringed	<i>Bromus ciliatus</i>		6.0-8.0	
Grass, Buffalo	<i>Buchloe dactyloides</i>		6.0-7.5	
Grass, Carpet	<i>Axonopus compressus</i>		6.0-7.0	
Grass, Colonial Bent	<i>Agrostis tenuis</i>		6.0-7.0	
Grass, Crab	<i>Digitaria sanguinalis</i>		6.0-7.0	
Grass, Creeping Bent	<i>Agrostis palustris</i>		6.0-7.0	
Grass, Crinkled Hair	<i>Deschampsia flexuosa</i>		4.0-5.0	
Grass, Early Hair	<i>Aira praecox</i>		5.0-6.0	
Grass, Haller's	<i>Calamagrostis Halleriana</i>		5.0-6.2	
Grass, Heath	<i>Triodia decumbens</i>	5.0	6.0-7.0	8.0
Grass, Italian Rye	<i>Lolium italicum</i>	5.0	6.0-7.0	8.0
Grass, Johnson	<i>Sorghum halepense</i>		5.0-6.0	
Grass, June	<i>Poa Pratensis</i>		5.5-6.5	
Grass, Manna	<i>Glyceria remota</i>		5.0-6.0	
Grass, Marsh	<i>Spartina pectinata</i>		7.0-8.0	
Grass, Meadow	<i>Poa Chaixii</i>		5.0-6.0	
Grass, Meadow	<i>Poa laxa</i>		5.0-6.0	
Grass, Meadow Fox-tail	<i>Alopecurus pratensis</i>		6.0-7.5	
Grass, Meadow Oat	<i>Avena elatior</i>		6.0-7.5	
Grass, Melic	<i>Melica ciliata</i>		6.0-8.0	
Grass, Melic, One-flowered	<i>Melica uniflora</i>		4.0-7.5	
Grass, Michelis Timothy	<i>Phleum Michelii</i>		6.0-8.0	
Grass, Orchard	<i>Dactylis glomerata</i>	5.5	6.0-7.0	8.0
Grass, Pampas	<i>Cortaderia argentea</i>		6.0-8.0	
Grass, Panic	<i>Panicum lucidum</i>		4.5-5.0	
Grass, Panic	<i>Panicum meridionale</i>		4.5-5.0	
Grass, Panic	<i>Panicum oricola</i>		4.5-5.0	
Grass of Parnassus	<i>Parnassia asarifolia</i>		5.0-6.0	
Grass of Parnassus	<i>Parnassia caroliniana</i>		6.0-8.0	
Grass, Perennial Rye	<i>Lolium perenne</i>	5.0	6.0-7.0	8.0
Grass, Poverty Oat	<i>Danthonia spicata</i>		5.5-6.5	
Grass, Quack	<i>Agropyron repens</i>	5.0	5.5-6.5	
Grass, Quaking	<i>Briza media</i>		5.5-8.0	
Grass, Redtop	<i>Agrostis alba</i>		5.0-6.0	
Grass, Reed's Canary	<i>Phalaris arundinacea</i>		6.0-7.0	
Grass, Rhode Island Bent	<i>Agrostis tenuis</i>		4.5-6.0	6.5
Grass, Rhodes	<i>Chloris gayana</i>		6.0-7.5	
Grass, Rib	<i>Plantago lanceolata</i>		5.0-7.0	
Grass, Rough Blue	<i>Poa trivialis</i>		6.0-7.0	
Grass, Salt	<i>Distichlis spicata</i>	6.5	7.0-8.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Grass, Scurvy	<i>Cochlearia officinalis</i>		6.0-7.5	
Grass, Seaside Bent	<i>Agrostis palustris</i>	5.0	6.0-7.0	
Grass, Silver	<i>Aira caryophylla</i>		5.0-6.0	
Grass, Slender Reed	<i>Calamagrostis tenella</i>		5.0-6.2	
Grass, Small Blue	<i>Poa minor</i>		6.0-8.0	
Grass, Squirrel Tail	<i>Hordeum jubatum</i>		6.5-7.5	
Grass, Star	<i>Hypoxis hirsuta</i>		5.0-6.0	
Grass, Sudan	<i>Sorghum vulgare, var. sudanense</i>	4.5	5.0-6.5	
Grass, Sweet Vernal	<i>Anthoxanthum odoratum</i>	5.0	6.0-7.0	8.0
Grass, Switch	<i>Panicum virgatum</i>		7.0-8.2	
Grass, Tar	<i>Brachypodium pinnatum</i>	6.5	7.0-8.5	
Grass, Timothy	<i>Phleum pratense</i>		5.5-8.0	
Grass, Tufted Hair	<i>Deschampsia caespitosa</i>		5.5-8.0	
Grass, Velvet	<i>Holcus lanatus</i>		5.0-7.5	
Grass, Velvet Bent	<i>Agrostis canina</i>		5.5-7.0	
Grass, White Bent	<i>Nardus stricta</i>		4.5-5.5	6.5
Grass, Whitlow	<i>Draba aizoides</i>		6.0-8.0	
Grass, Whitlow	<i>Draba tomentosa</i>		6.0-8.0	
Grass, Wood Reed	<i>Cinna arundinacea</i>		6.0-8.0	
Grass Pink	<i>Calopogon puchellus</i>		7.0-8.2	
Greenbrier	<i>Smilax rotundifolia</i>		5.0-6.0	
Gromwell	<i>Lithospermum prostratum</i>		4.5-5.5	
Ground Cedar	<i>Lycopodium complanatum</i>		4.0-6.0	
Ground Nut	<i>Apios tuberosa</i>		5.5-6.5	
Ground Pine	<i>Lycopodium obscurum</i>		4.5-6.5	7.5
Groundsel	<i>Senecio campestris</i>		6.0-8.0	
Groundsel	<i>Senecio incanus</i>		5.0-6.0	
Groundsel	<i>Senecio uniflorus</i>		5.0-6.0	
Groundsel, Common	<i>Senecio vulgaris</i>		5.0-6.5	
Groundsel, Purple	<i>Senecio elegans</i>		5.5-7.0	
Guernsey Lily	<i>Nerine sarniensis</i>		6.0-7.0	
Gypsophila	<i>Gypsophila muralis</i>		5.0-6.0	
Gypsophila	<i>Gypsophila repens</i>		6.0-8.0	
Gypsophila, Mouse Ear	<i>Gypsophila cerastioides</i>		6.5-7.5	
Hackberry	<i>Celtis pumila</i>		6.0-8.0	
Hardhack	<i>Spiraea tomentosa</i>		5.0-6.0	
Hart's Tongue	<i>Scolopendrium vulgare</i>		6.0-8.0	
Hawk's Beard	<i>Crepis hyoseridifolia</i>		6.0-8.0	
Hawk's Beard	<i>Crepis Jacquinii</i>		6.0-8.0	
Hawk's Beard	<i>Crepis montana</i>		6.0-8.0	
Hawkweed	<i>Hieracium intybaceum</i>		5.0-6.0	
Hawkweed	<i>Hieracium bupleuroides</i>		6.0-8.0	
Hawkweed	<i>Hieracium villosum</i>		6.0-8.0	
Hawthorn	<i>Crataegus coccinea</i>		6.5-7.5	
Hawthorn, English	<i>Crataegus oxyacantha</i>		6.0-7.0	
Hazelnut	<i>Corylus americana</i>		6.0-7.0	
Heal-all	<i>Prunella vulgaris</i>		6.0-8.0	
Heath, Cornish	<i>Erica cinerea</i>		6.0-6.5	
Heath, Mountain	<i>Phyllodoce coerulca</i>		4.5-5.5	
Heath, Spring	<i>Erica carnea</i>		4.5-6.0	
Heather	<i>Calluna vulgaris</i>		4.5-6.0	6.5
Heather, Himalayan	<i>Cassiope fastigiata</i>		5.0-6.5	
Hellebore	<i>Helleborus foetidus</i>		6.0-8.0	
Hellebore	<i>Helleborus niger</i>		6.0-8.0	
Hellebore, False	<i>Veratrum viride</i>		5.0-6.0	
Helleborine	<i>Serapias Helleborine</i>		5.5-6.0	
Heliotrope	<i>Heliotropium peruvianum</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Hemlock.....	<i>Tsuga canadensis</i>		5.0-6.0	7.0
Hemlock, Southern.....	<i>Tsuga caroliniana</i>	4.5	5.0-6.0	
Hemp.....	<i>Cannabis sativa</i>		6.0-7.0	
Hen-and-Chickens.....	<i>Sempervivum tectorum</i>		6.0-8.0	
Hepatica.....	<i>Hepatica triloba</i>		6.0-8.0	
Hepatica.....	<i>Hepatica acutiloba</i>		5.0-6.5	
Herb Robert.....	<i>Geranium Robertianum</i>		6.0-8.0	
Hibiscus, Chinese.....	<i>Hibiscus Rosa-sinensis</i>		6.0-8.0	
Hickory, Shagbark.....	<i>Carya ovata</i>		6.0-7.0	
Hobblebush.....	<i>Viburnum alnifolium</i>		5.0-6.0	
Holly, English.....	<i>Ilex aquifolium</i>		4.0-5.5	
Holly, American.....	<i>Ilex opaca</i>		5.0-6.0	
Holly, Japanese.....	<i>Ilex crenata</i>		5.0-6.5	
Holly, Mountain.....	<i>Nemopanthus mucronata</i>		5.0-6.0	
Hollygrape, Oregon.....	<i>Mahonia</i> sp.....		6.0-8.0	
Hollyhock.....	<i>Althaea rosea</i>		6.0-8.0	
Honey Locust.....	<i>Gleditsia triacanthus</i>		6.0-8.0	
Honey Myrtle.....	<i>Melaleuca</i> sp.....		6.0-8.0	
Honeysuckle, Bush.....	<i>Lonicera tatarica</i>		6.5-8.0	
Honeysuckle, Japanese.....	<i>Lonicera japonica</i>		6.0-7.5	
Honeysuckle, Swamp.....	<i>Rhododendron viscosum</i>		4.0-5.0	
Honeysuckle, Trumpet.....	<i>Lonicera sempervirens</i>		6.0-7.5	
Honesty.....	<i>Lunaria annua</i>		6.0-7.5	
Honewort.....	<i>Cryptolaenia canadensis</i>		6.0-7.0	
Hop Tree.....	<i>Ptelea trifoliata</i>		6.0-8.0	
Hop, Japanese.....	<i>Humulus japonicus</i>		6.0-7.5	
Hornbeam.....	<i>Carpinus caroliniana</i>		6.0-8.0	
Horse Gentian.....	<i>Triosteum aurantiacum</i>		6.0-7.0	
Horseradish.....	<i>Armoracia rusticana</i>		6.0-7.0	8.0
Horse Tail.....	<i>Equisetum arvense</i>		4.5-6.0	
Horse Tail, Wood.....	<i>Equisetum sylvaticum</i>		4.5-6.0	
House Leek.....	<i>Sempervivum tectorum</i>		6.5-7.5	
Houstonia, Mountain.....	<i>Houstonia purpurea</i>		5.0-6.0	
Huckleberry, Black.....	<i>Gaylussacia baccata</i>		4.0-5.0	
Huckleberry, Box.....	<i>Gaylussacia brachyera</i>	4.0	4.5-6.0	
Huckleberry, Dwarf.....	<i>Gaylussacia dumosa</i>		4.5-5.0	
Hyacinth.....	<i>Hyacinthus candicans</i>		6.5-7.5	
Hyacinth Bean.....	<i>Dolichos Lablab</i>		6.0-7.5	
Hydrangea.....	<i>Hydrangea pectolaris</i>		5.5-7.0	
Hydrangea, Blue-flowered.....	<i>Hydrangea macrophylla</i>		4.0-5.0	5.0
Hydrangea, Pink-flowered.....	<i>Hydrangea macrophylla</i>	5.5	6.0-7.0	7.5
Hydrangea.....	<i>Hydrangea paniculata grandiflora</i>		6.0-7.0	
Hydrangea, White.....	<i>Hydrangea arborescens</i>		6.0-8.0	
Hypericum.....	<i>Hypericum patulum</i>		5.5-7.0	
Ice Plant.....	<i>Mesembryanthemum multi-</i> <i>radiatum</i>		6.0-8.0	
Indian Pipe.....	<i>Monotropa uniflora</i>		5.0-6.0	
Indigo Bush.....	<i>Amorpha fruticosa</i>		6.0-7.5	
Indigo, False Blue.....	<i>Baptisia australis</i>		5.0-6.0	
Indigo, False Yellow.....	<i>Baptisia tinctoria</i>		5.0-6.0	
Inkberry.....	<i>Ilex glabra</i>		4.5-5.0	
Iris, Blue Flag.....	<i>Iris versicolor</i>		5.0-7.5	
Iris, Carolina.....	<i>Iris caroliniana</i>		5.5-7.0	
Iris, Crested Dwarf.....	<i>Iris cristata</i>	4.5	5.5-7.0	
Iris, Dixie.....	<i>Iris hexagona</i>		5.0-6.0	
Iris, Fairy.....	<i>Iris pumila</i>		5.5-6.5	
Iris, German.....	<i>Iris germanica</i>	5.0	6.5-7.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Iris, Japanese.....	<i>Iris Kaempferi</i>		5.5-6.5	
Iris, Lake Dwarf.....	<i>Iris lacustris</i>	5.5	7.0-7.5	
Iris, Oregon.....	<i>Iris Douglasiana</i>		5.0-6.0	
Iris, Slender Blue Flag.....	<i>Iris prismatica</i>		4.5-6.0	7.0
Iris, Vernal.....	<i>Iris verna</i>		4.0-5.0	
Ironweed, Common.....	<i>Vernonia noveboracensis</i>		5.0-6.0	
Ivy, Boston.....	<i>Parthenocissus tricuspidata</i> , var. <i>Veitchii</i>		6.0-8.0	
Ivy, English.....	<i>Hedera helix</i>		6.0-8.0	
Ivy, Poison.....	<i>Rhus toxicodendron</i>		5.0-6.5	
Jacaranda.....	<i>Jacaranda acutifolia</i>		6.0-7.5	
Jack-in-the-Pulpit.....	<i>Arisaema triphyllum</i>		6.0-8.0	
Jacob's Ladder.....	<i>Polemonium Van-Bruntiae</i>		5.0-7.5	
Jamesia.....	<i>Jamesia americana</i>		5.0-6.0	
Japanese Rose.....	<i>Kerria japonica</i>		5.5-7.5	
Japanese Flowering Quince.....	<i>Chaenomeles japonica</i>		5.5-7.5	
Jasmine, Winter.....	<i>Jasminum nudiflorum</i>		6.0-8.0	
Jerusalem Thorn.....	<i>Parkinsonia aculeata</i>		6.0-8.0	
Jessamine, Carolina.....	<i>Gelsemium sempervirens</i>		5.0-6.0	
Jetbead.....	<i>Rhodotypos kerrioides</i>		6.0-7.5	
Jimson Weed.....	<i>Datura Stramonium</i>	5.5	6.0-7.5	
Joe-Pye Weed.....	<i>Eupatorium purpureum</i>		5.0-7.5	
Juneberry.....	<i>Amelanchier arbutifolia</i>		5.0-6.0	
Juniper, Creeping.....	<i>Juniperus horizontalis</i>		5.0-6.0	
Juniper, Dahurican.....	<i>Juniperus communis Dahurica</i>		5.0-6.5	
Juniper, Irish.....	<i>Juniperus communis hibernica</i>		5.0-6.5	
Juniper, Mountain.....	<i>Juniperus communis montana</i>		5.0-6.0	7.0
Juniper, Prostrate.....	<i>Juniperus communis depressa</i>		5.0-6.0	7.0
Juniper, Swedish.....	<i>Juniperus communis succica</i>		5.0-6.5	
Kafir Corn.....	<i>Sorghum vulgare</i> , var. <i>caffrorum</i>		6.0-7.5	
Kafir, Red.....	<i>Sorghum vulgare</i> , var. <i>caffrorum</i>		6.0-7.5	
Kalanchoe.....	<i>Kalanchoe Blossfeldiana</i>		6.0-7.5	
Kale.....	<i>Brassica oleracea</i> , var. <i>acephala</i>		6.0-7.5	
Kalmia, Bog.....	<i>Kalmia polifolia</i>		4.5-5.0	6.0
Kentucky Coffee Tree.....	<i>Gymnocladus dioica</i>		6.0-8.0	
Kerria, Double.....	<i>Kerria japonica flore pleno</i>		6.0-7.0	
Knotweed.....	<i>Polygonum aviculare</i>		5.0-6.5	
Knotweed.....	<i>Polygonum bistortoides</i>		5.0-6.5	
Knotweed.....	<i>Polygonum minus</i>		5.0-6.0	
Kohl-Rabi.....	<i>Brassica caulorapa</i>		6.0-7.5	
Labrador Tea.....	<i>Ledum groenlandicum</i>		3.0-5.0	
Labrador Tea, Dwarf.....	<i>Ledum palustre</i>		5.0-6.0	
Lace Flower, Blue.....	<i>Trachymenes caerulea</i>		6.0-7.5	
Ladies'-Tresses, Beck's.....	<i>Spiranthes Beckii</i>		4.5-5.0	
Ladies'-Tresses, Early.....	<i>Spiranthes vernalis</i>		4.5-5.0	
Ladies'-Tresses, Nodding.....	<i>Spiranthes cernua</i>		4.0-5.0	
Ladies'-Tresses, Shining.....	<i>Spiranthes lucida</i>		5.0-6.0	
Ladies'-Tresses, Slender.....	<i>Spiranthes gracilis</i>		5.0-6.0	
Ladies'-Tresses, Sweet.....	<i>Spiranthes odorata</i>		5.0-7.0	
Lady's Mantle, Alpine.....	<i>Alchemilla alpina</i>		5.0-6.0	
Lady's Mantle, Hoppe's.....	<i>Alchemilla Hoppeana</i>		6.0-8.0	
Ladies' Slipper, European.....	<i>Cypripedium Calceolus</i>		6.0-7.0	
Ladies' Slipper, Ramshad.....	<i>Cypripedium arietinum</i>		5.0-6.0	
Ladies' Slipper, Showy.....	<i>Cypripedium hirsutum</i>		6.0-8.0	
Ladies' Slipper, Small Yellow.....	<i>Cypripedium parviflorum</i>		5.0-6.0	
Ladies' Slipper, Small White.....	<i>Cypripedium candidum</i>		7.0-8.0	
Ladies' Slipper, Stemless.....	<i>Cypripedium acaule</i>		4.0-5.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Ladies' Thumb	<i>Polygonum Persicaria</i>		5.0-6.5	
Lambkill	<i>Kalmia angustifolia</i>		4.5-6.0	
Lamb's Quarters	<i>Chenopodium album</i>		5.0-7.5	
Lantana	<i>Lantana Camara</i>		5.5-7.0	
Larch, European	<i>Larix decidua</i>	4.5	5.0-6.5	
Larkspur	<i>Delphinium cashmerianum</i>		6.0-7.5	
Larkspur	<i>Delphinium nudicaule</i>		6.0-7.5	
Larkspur	<i>Delphinium Ajacis</i>		5.5-7.5	
Laurel, Great	<i>Rhododendron maximum</i>		4.5-6.0	7.0
Lavender	<i>Lavandula Spica compacta</i>		6.5-7.5	
Lavender	<i>Lavandula vera</i>		6.5-7.5	
Leatherleaf	<i>Chamaedaphne calyculata</i>		3.0-6.0	
Leatherwood	<i>Cyrilla racemiflora</i>		6.0-8.0	
Leek	<i>Allium Porrum</i>		6.0-8.0	
Lemon	<i>Citrus Limonia</i>		6.0-7.5	8.3
Lentil	<i>Lens esculenta</i>		5.5-7.0	
Leopard's Bane	<i>Doronicum plantagineum</i>		6.0-7.0	
Lespedeza, Japanese	<i>Lespedeza japonica</i>	4.0	4.5-6.5	
Lespedeza, Korean	<i>Lespedeza stipulacea</i>	4.0	4.5-6.5	
Lettuce	<i>Lactuca sativa</i>	5.5	6.0-7.0	8.0
Lettuce, Wild	<i>Lactuca canadensis</i>		5.5-7.5	
Lilac, Common	<i>Syringa vulgaris</i>		6.0-7.5	
Lilac, Persian	<i>Syringa persica</i>		6.0-8.0	
Lily, Avalanche	<i>Erythronium montanum</i>		5.0-6.0	
Lily, Canada	<i>Lilium canadense</i>		6.0-7.0	
Lily, Carolina	<i>Lilium carolinianum</i>		5.0-6.0	
Lily, Easter	<i>Lilium longiflorum</i>		6.0-7.0	
Lily, Glacier	<i>Erythronium grandiflorum</i>		5.0-6.0	
Lily, Gold-banded	<i>Lilium auratum</i>		5.0-6.0	
Lily, Gray's	<i>Lilium Grayi</i>		5.0-6.0	
Lily, Hanson	<i>Lilium Hansonii</i>		5.0-6.0	
Lily, Japanese	<i>Lilium speciosum</i>		6.0-7.0	
Lily, Madona	<i>Lilium candidum</i>		6.5-7.5	
Lily, Mahogany Trout	<i>Erythronium revolutum</i>		5.0-6.0	
Lily, Orange Cup	<i>Lilium philadelphicum</i>		5.0-6.0	
Lily, Regal	<i>Lilium regale</i>		6.0-7.0	
Lily, St. Bernard's	<i>Anthericum Liliago</i>		6.0-7.5	
Lily, Tiger	<i>Lilium tigrinum</i>		6.0-7.0	
Lily, Turk's Cap	<i>Lilium superbum</i>		5.0-6.0	
Lily, White Calla	<i>Zantedeschia aethiopica</i>	5.0	6.0-7.0	8.5
Lily, Yellow Calla	<i>Zantedeschia Elliottiana</i>		6.0-7.0	
Lily-of-the-Valley	<i>Convallaria majalis</i>		4.5-6.0	
Lipfern, Hairy	<i>Cheilanthes lanosa</i>		5.0-6.0	
Lipfern, Wavy	<i>Cheilanthes densa</i>		6.0-7.0	
Lithospermum	<i>Lithospermum prostratum</i>		5.0-6.5	
Live-for-Ever	<i>Sedum purpureum</i>		5.0-6.0	
Lobelia	<i>Lobelia Erinus</i>		6.0-7.5	
Lobelia	<i>Lobelia tenuior</i>		6.0-7.5	
Lobelia, Great Blue	<i>Lobelia syphilitica</i>		6.0-8.0	
Locust, Black	<i>Robina Pseudo-Acacia</i>		6.0-7.5	
Loosestrife	<i>Lysimachia terrestris</i>		5.0-7.5	
Loosestrife, Fringed	<i>Steironema ciliatum</i>		6.0-8.0	
Loosestrife, Whorled	<i>Lysimachia quadrifolia</i>		4.0-5.0	
Looseseed	<i>Phryma Leptostachya</i>		6.0-7.0	
Lousewort	<i>Pedicularis Kernerii</i>		5.0-6.0	
Love-in-a-Mist	<i>Nigella damascena</i>		6.0-7.5	
Love-Lies-Bleeding	<i>Amaranthus caudatus</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Lungwort.....	<i>Mertensia alpina</i>		5.0-6.5	
Lungwort.....	<i>Mertensia Bakeri</i>		5.0-6.5	
Lungwort.....	<i>Mertensia ciliata</i>		5.0-6.5	
Lungwort.....	<i>Mertensia echioides</i>		5.0-6.5	
Lungwort.....	<i>Mertensia lanceolata</i>		5.0-6.5	
Lungwort, Virginia.....	<i>Mertensia virginica</i>		5.5-7.0	
Lupine.....	<i>Lupinus mutabilis</i>		5.0-6.0	
Lupine.....	<i>Lupinus nanus</i>		5.0-6.0	
Lupine.....	<i>Lupinus polyphyllus</i>		6.5-7.5	
Lupine, Blue.....	<i>Lupinus hirsutus</i>		5.0-6.0	
Lupine, Rose.....	<i>Lupinus Hartwegi</i>	5.0	6.0-7.0	
Lupine, White.....	<i>Lupinus albus</i>		5.5-7.0	
Lupine, Yellow.....	<i>Lupinus luteus</i>		5.0-6.0	
Madder, Field.....	<i>Sherardia arvensis</i>		6.0-8.0	
Madwort.....	<i>Alyssum pyrenaicum</i>		6.5-7.5	
Madwort.....	<i>Alyssum serpyllifolium</i>		6.5-7.5	
Magnolia.....	<i>Magnolia grandiflora</i>		5.0-6.0	
Magnolia.....	<i>Magnolia Soulangeana</i>		5.0-6.0	
Magnolia, Big-leaved.....	<i>Magnolia macrophylla</i>		5.0-6.0	
Magnolia, Star.....	<i>Magnolia stellata</i>		5.0-6.0	
Magnolia, Sweet Bay.....	<i>Magnolia glauca</i>		4.0-5.0	
Magnolia, Umbrella.....	<i>Magnolia tripetala</i>		5.0-6.0	
Mahala.....	<i>Ceanothus prostratus</i>		5.0-6.0	
Maidenhair Tree.....	<i>Ginkgo biloba</i>		6.0-7.0	
Marjoram, Sweet.....	<i>Origanum Majorana</i>		6.0-8.0	
Male Berry.....	<i>Xolisma ligustrina</i>	4.7	5.5-6.0	
Mallow.....	<i>Malva Alcea</i>		6.0-7.5	
Mallow, Tree.....	<i>Lavatera trimestris</i>		6.0-7.5	
Mallow, Musk.....	<i>Malva moschata</i>		6.0-7.5	
Maltese Cross.....	<i>Lychnis chalcidonica</i>		6.0-7.5	
Mangel.....	<i>Beta vulgaris crassa</i>	5.5	6.0-7.0	
Mangosteen.....	<i>Garcinia Mangostana</i>		6.0-7.0	
Maple, Mountain.....	<i>Acer spicatum</i>		5.0-6.0	
Maple, Striped.....	<i>Acer pennsylvanicum</i>		5.0-6.0	
Maple, Sugar.....	<i>Acer saccharum</i>		6.0-7.5	
Marguerite.....	<i>Chrysanthemum frutescens</i>		6.0-7.5	
Marigold, Marsh.....	<i>Caltha palustris</i>		5.5-7.0	
Mariposa Lily.....	<i>Calochortus sp.</i>		6.0-8.0	
Martynia Unicorn Plant.....	<i>Martynia craniolaria</i>		6.0-7.5	
Matrimony Vine.....	<i>Lycium halimifolium</i>		6.0-8.0	
May Apple.....	<i>Podophyllum peltatum</i>		5.0-7.5	
Mayflower.....	<i>Maianthemum canadense</i>		6.0-7.0	
Meadow Beauty.....	<i>Rhexia virginica</i>		4.5-5.5	
Meadow Rue.....	<i>Thalictrum alpinum</i>		6.0-8.0	
Meadow Rue.....	<i>Thalictrum dioicum</i>		6.0-8.0	
Meadow Rue.....	<i>Thalictrum dipterocarpum</i>		5.5-7.5	
Meadow Rue, Strong-scented.....	<i>Thalictrum revolutum</i>		6.0-7.0	
Menziesia, Alleghany.....	<i>Menziesia pilosa</i>	4.5	5.5-6.0	
Medick, Black.....	<i>Medicago lupulina</i>	4.5	5.0-6.5	
Mercury.....	<i>Mercurialis perennis</i>		4.5-8.0	
Mignonette.....	<i>Reseda odorata</i>		5.0-8.0	
Milkweed.....	<i>Asclepias curassavica</i>		6.0-7.5	
Milkweed, Common.....	<i>Asclepias syriaca</i>		4.0-5.0	
Milkweed, Four-leaved.....	<i>Asclepias quadrifolia</i>		6.0-8.0	
Milkweed, Swamp.....	<i>Asclepias incarnata</i>		5.0-7.5	
Milkwort.....	<i>Polygala amara</i>		6.0-8.0	
Milkwort.....	<i>Polygala calcarea</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Milkwort.....	<i>Polygala serpyllifolia</i>		5.0-6.0	
Milkwort, Crossleaf.....	<i>Polygala cruciata</i>		7.0-8.2	
Milkwort, Fringed.....	<i>Polygala paucifolia</i>		5.5-6.5	
Milkwort, Whorled.....	<i>Polygala verticillata</i>		6.0-8.0	
Millet.....	<i>Setaria italica</i>	4.5	5.0-6.5	
Milo, Dwarf Yellow.....	<i>Sorghum vulgare</i>		5.5-7.5	
Mint.....	<i>Mentha arvensis</i>		7.0-8.0	
Mist Flower, Blue.....	<i>Eupatorium coelestinum</i>		5.0-7.5	
Miterwort, False.....	<i>Tiarella cordifolia</i>		5.0-6.0	
Moccasin Flower.....	<i>Cypripedium acaule</i>		4.0-5.0	
Mock Orange.....	<i>Philadelphus coronaria</i>		6.0-8.0	
Molinia.....	<i>Molinia caerulea</i>		4.0-5.0	
Moltkia.....	<i>Moltkia suffruticosa</i>		6.5-7.5	
Monkey Flower.....	<i>Mimulus alatus</i>		5.0-6.5	
Monkey Flower.....	<i>Mimulus cardinalis</i>		5.0-6.5	
Monkey Flower.....	<i>Mimulus Lewisii</i>		5.0-6.5	
Monkshood.....	<i>Aconitum Bakeri</i>		5.0-6.5	
Monkshood, Autumn.....	<i>Aconitum autumnale</i>		6.0-8.0	
Monkshood, Azure.....	<i>Aconitum Fisheri</i>		5.0-6.0	
Moonseed.....	<i>Menispermum canadense</i>		5.0-7.5	
Moonwort.....	<i>Botrychium Lunaria</i>		5.0-6.0	
Morning Glory.....	<i>Ipomoea purpurea</i>		6.0-7.5	
Moss.....	<i>Byrum sp.</i>		6.0-8.0	
Moss, Flowering.....	<i>Pyxidanthera barbulata</i>		4.5-6.0	
Moss, Hypnum.....	<i>Hypnum sp.</i>		3.5-5.0	
Moss, Sphagnum.....	<i>Sphagnum sp.</i>		3.5-5.0	6.0
Moss Pink.....	<i>Phlox subulata</i>		6.0-8.0	
Mountain Fringe.....	<i>Adlumia fungosa</i>		6.0-8.0	
Mountain Laurel.....	<i>Kalmia latifolia</i>		4.5-6.0	
Mouse Ear, Chickweed.....	<i>Cerastium arvense</i>		6.0-7.0	
Mouse Ear.....	<i>Cerastium latifolium</i>		6.0-8.0	
Mouse Ear.....	<i>Cerastium uniflorum</i>		5.0-6.0	
Mouse Ear.....	<i>Cerastium vulgatum</i>		5.0-7.5	
Moxie Plum.....	<i>Chiogenes hispidula</i>		4.5-5.7	
Mulberry.....	<i>Morus rubra</i>		6.0-7.5	
Mullein Pink.....	<i>Lychnis Coronaria</i>		5.5-7.0	
Mullein, White.....	<i>Verbascum Lychnitis</i>		5.0-6.0	
Mushroom.....	<i>Agaricus campestris</i>		6.5-7.5	
Muskmelon.....	<i>Cucumis Melo</i>	5.5	6.0-7.0	
Musk Plant.....	<i>Mimulus moschatus</i>		6.0-7.5	
Mustard, Black.....	<i>Brassica nigra</i>		6.0-7.5	
Mustard, Chinese Broadleaf.....	<i>Brassica parachinensis</i>		6.0-7.5	
Mustard, Hare's-ear.....	<i>Conringia orientalis</i>		5.0-6.0	
Mustard, Treacle.....	<i>Erysimum odoratum</i>		6.0-8.0	
Mustard, White.....	<i>Brassica alba</i>	4.5	6.0-7.5	
Mustard, Wild.....	<i>Brassica arvensis</i>		6.0-8.0	
Myrtle.....	<i>Myrtus communis</i>		6.0-8.0	
Myrtle, Crape.....	<i>Lagerstroemia indica</i>		5.0-6.0	
Myrtle, Sand.....	<i>Leiophyllum buxifolium</i>		4.0-6.0	
Myrtle, Southern Wax.....	<i>Myrica cerifera</i>		4.0-6.0	
Narcissus, Polyanthus.....	<i>Narcissus Tazetta</i>		6.0-7.5	
Narcissus, Trumpet.....	<i>Narcissus Pseudon-narcissus</i>		5.5-6.5	
Nasturtium.....	<i>Tropaeolum majus</i>	5.0	5.5-7.5	
Neillia.....	<i>Neillia longiracemosa</i>		5.0-6.0	
Nettle.....	<i>Urtica dioica</i>		6.0-7.5	
Nettle, Dead.....	<i>Lamium album</i>		5.0-8.0	
Nettle, Dead.....	<i>Lamium purpureum</i>		6.0-7.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Nettle, Hedge	<i>Stachys arvensis</i>		6.0-7.5	
Nettle, Hedge	<i>Stachys germanica</i>		6.0-8.0	
Nettle, Hedge	<i>Stachys recta</i>		6.0-8.0	
Nettle, Hemp	<i>Galeopsis ochroleuca</i>		5.0-6.0	
Nettle, Hemp	<i>Galeopsis dubia</i>		5.0-6.0	
Nettle, Hemp	<i>Galeopsis tetrahit</i>		5.0-6.0	
New Jersey Tea	<i>Ceanothus americanus</i>		4.5-6.0	
Nicotiana	<i>Nicotiana glauca</i> , var. <i>grandiflora</i>		5.5-6.5	
Nightshade	<i>Solanum nigrum</i>		6.0-8.0	
Nightshade, Bittersweet	<i>Solanum Dulcamara</i>		6.0-8.0	
Nightshade, Enchanter's	<i>Circaea latifolia</i>		5.0-6.0	
Ninebark, Common	<i>Physocarpus opulifolius</i>		6.0-7.5	
Nipplewort	<i>Lapsana communis</i>		6.5-8.0	
Oak, Black	<i>Quercus velutina</i>		6.0-7.0	
Oak, Blackjack	<i>Quercus marilandica</i>		5.0-6.0	
Oak, Bur	<i>Quercus macrocarpa</i>		5.0-6.0	
Oak, Chestnut	<i>Quercus Prinus</i>		5.0-6.0	
Oak, English	<i>Quercus Robur</i>		6.0-8.0	
Oak, Live	<i>Quercus virginiana</i>		5.0-6.0	
Oak, Pin	<i>Quercus palustris</i>		5.0-6.5	
Oak, Post	<i>Quercus stellata</i>		5.0-6.0	
Oak, Red	<i>Quercus borealis</i>		4.5-6.0	7.5
Oak, Scarlet	<i>Quercus coccinea</i>		6.0-7.0	
Oak, Scrub	<i>Quercus ilicifolia</i>		4.5-6.0	7.5
Oak, Turkey	<i>Quercus sp.</i>		6.0-8.0	
Oak, Valley	<i>Quercus lobata</i>		6.0-8.0	
Oak, White	<i>Quercus alba</i>		5.0-6.5	
Oak, Willow	<i>Quercus phellos</i>		5.0-6.0	
Oats	<i>Avena sativa</i>	4.5	5.0-7.5	
Oats, Wild	<i>Avena fatua</i>		5.0-7.5	
Obedient Flower	<i>Physostegia virginiana</i>		6.0-7.5	
Oconee Bells	<i>Shortia galacifolia</i>		5.0-6.0	
Okra	<i>Hibiscus esculentus</i>		6.0-7.5	
Old Man's Whiskers	<i>Sieversia triflora</i>		6.5-7.5	
Oleander	<i>Nerium Oleander</i>		6.0-7.5	
Onion	<i>Allium Cepa</i>	5.0	5.8-7.0	7.5
Onion, Nodding	<i>Allium cernuum</i>		6.0-7.0	
Onion, Nodding	<i>Allium oxyphilum</i>		5.0-6.0	
Orach	<i>Atriplex patula</i>		6.0-7.5	
Orange, Sweet	<i>Citrus sinensis</i>		6.0-7.5	8.3
Orchid, Pink-beard	<i>Pogonia ophioglossiodes</i>		4.5-5.5	
Orchid, White Fringed	<i>Habenaria blepharoglottis</i>		3.5-5.0	
Orchid, Yellow Fringed	<i>Habenaria ciliaris</i>		4.0-5.0	
Orchis, Bee	<i>Ophrys apifera</i>		6.0-8.0	
Orchis, Crane-fly	<i>Tipularia discolor</i>		5.0-6.0	
Orchis, Crested Yellow	<i>Habenaria cristata</i>		4.0-5.0	
Orchis, Fly	<i>Ophrys muscifera</i>		6.0-8.0	
Orchis, Fringeless Purple	<i>Habenaria peramoena</i>		5.0-6.0	
Orchis, Helmet	<i>Orchis militaris</i>		6.0-8.0	
Orchis, Hooker's	<i>Habenaria Hookeri</i>		5.0-6.0	7.5
Orchis, Large Purple Fringed	<i>Habenaria fimbriata</i>		5.0-6.0	
Orchis, Lizard	<i>Himantoglossum hircinum</i>		6.0-8.0	
Orchis, Long-bracted	<i>Habenaria bracteata</i>		5.0-6.0	
Orchis, Monkey	<i>Orchis Simia</i>		6.0-8.0	
Orchis, Pale	<i>Orchis pallens</i>		6.0-8.0	
Orchis, Ragged	<i>Habenaria lacera</i>		5.0-6.0	
Orchis, Round-leaved	<i>Habenaria orbiculata</i>		5.0-6.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Orchis, Showy	<i>Orchis spectabilis</i>		6.0-7.0	
Orchis, Small White	<i>Habenaria nivea</i>		5.0-6.0	
Orchis, Small Green Wood	<i>Habenaria clavellata</i>		4.5-5.0	
Orchis, Spider	<i>Ophrys aranifera</i>		6.0-8.0	
Orchis, Tubercled	<i>Habenaria flava</i>		4.5-5.0	
Osage Orange	<i>Maclura pomifera</i>		6.0-7.5	
Ox-Eye	<i>Heliopsis helianthoides</i>		5.0-7.5	
Pachistima	<i>Pachistima Canbyi</i>		5.0-6.0	
Painted Glory	<i>Salpiglossis sinuata</i>		6.0-7.5	
Palm, Canary Island	<i>Phoenix canariensis</i>		6.0-8.0	
Palm, Cocos	<i>Cocos australis</i>		6.0-7.5	
Palm, Needle	<i>Raphidophyllum Hystrix</i>		6.0-7.5	
Palm, Washington	<i>Washingtonia filifera</i>		6.0-8.0	
Pansy (Heart's Ease)	<i>Viola tricolor</i>		5.5-6.5	
Pansy, Wild	<i>Viola arvensis</i>		5.0-7.5	
Papaw	<i>Asimina triloba</i>		6.0-7.5	
Paprika (Red Pepper)	<i>Capsicum frutescens</i>		7.0-8.5	
Parsley	<i>Petroselinum hortense</i>		5.0-7.0	
Parsnip	<i>Pastinaca sativa</i>		5.5-7.0	
Partridgeberry	<i>Mitchella repens</i>		5.0-6.0	
Passion Flower	<i>Passiflora caerulea</i>		6.0-8.0	
Pasque Flower	<i>Pulsatilla ludoviciana</i>		5.0-6.5	
Pasque Flower	<i>Pulsatilla patens</i>		5.0-6.0	
Paulownia	<i>Paulownia tomentosa</i>		6.0-8.0	
Pea, Early Dwarf	<i>Pisum sativum, var. humile</i>	5.5	6.0-7.5	
Pea, Everlasting	<i>Lathyrus latifolius</i>		5.0-6.5	
Pea, Everlasting	<i>Lathyrus niger</i>		5.0-6.0	
Pea, Field	<i>Pisum arvense</i>	5.5	6.0-7.5	
Pea, Sweet	<i>Lathyrus odoratus</i>		6.0-7.5	
Pea Tree, Siberian	<i>Caragana arborescens</i>		6.0-7.0	
Peach	<i>Amygdalus persica</i>		6.0-7.5	
Peanut	<i>Arachis hypogaea</i>		5.3-6.6	
Peanut, Hog	<i>Amphicarpa monoica</i>		6.0-8.0	
Pear	<i>Pyrus communis</i>		6.0-7.5	
Pearlwort, Spreading	<i>Sagina procumbens</i>		5.0-7.5	
Pecan	<i>Carya Pecan</i>		6.4-8.0	
Pennywort, Water	<i>Hydrocotyle vulgaris</i>		4.5-6.0	6.5
Penstemon	<i>Penstemon barbatus</i>		5.5-7.0	
Peony	<i>Paeonia albiflora</i>		6.0-7.5	
Pepper, Sweet	<i>Capsicum frutescens, var. grossum</i>		5.5-7.0	
Pepperbush, Sweet	<i>Clethra alnifolia</i>		4.5-5.0	6.0
Peppergrass, Field	<i>Lepidium campestre</i>		6.0-8.0	
Peppergrass, Perennial	<i>Lepidium Draba</i>		6.0-8.0	
Peppermint	<i>Mentha piperita</i>	5.5	6.0-7.5	
Periwinkle	<i>Vinca minor</i>		6.0-7.5	
Petunia	<i>Petunia hybrida</i>	5.0	6.0-7.5	
Phlox	<i>Phlox amoena</i>		5.0-6.0	
Phlox, Arend's	<i>Phlox Arendsii</i>		6.0-7.5	
Phlox, Creeping	<i>Phlox stolonifera</i>		5.0-6.0	
Phlox, Douglas	<i>Phlox Douglasii</i>		6.5-7.5	
Phlox, Drummond's	<i>Phlox Drummondii</i>	5.0	5.5-7.0	
Phlox, Mountain	<i>Phlox ovata</i>		5.0-6.0	
Phlox, Sand Hill	<i>Phlox bifida</i>		5.0-6.0	
Phlox, Showy	<i>Phlox speciosa</i>		5.0-6.5	
Phlox, Stemless	<i>Phlox multiflora</i>		5.0-6.5	
Phlox, Summer Perennial	<i>Phlox paniculata</i>		6.0-8.0	
Phlox, Wild Sweet William	<i>Phlox divaricata</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Pickeral Weed	<i>Pontederia cordata</i>		5.0-7.5	
Pigweed, Rough	<i>Amaranthus retroflexus</i>		5.5-6.5	
Pimpernel	<i>Anagallis arvensis</i>		6.0-7.5	
Pine, Jack	<i>Pinus Banksiana</i>		4.5-5.0	6.0
Pine, Loblolly	<i>Pinus taeda</i>	4.5	5.0-6.0	
Pine, Longleaf	<i>Pinus palustris</i>		4.5-5.0	6.0
Pine, Mountain	<i>Pinus mugo</i>		5.5-6.5	
Pine, Mugho	<i>Pinus mugo, var. mughus</i>		5.0-6.5	
Pine, Pitch	<i>Pinus rigida</i>		4.5-5.0	6.0
Pine, Pond	<i>Pinus rigida, var. serotina</i>	4.5	5.0-6.0	
Pine, Red	<i>Pinus resinosa</i>	4.5	5.0-6.0	
Pine, Scot's	<i>Pinus sylvestris</i>		5.0-6.5	
Pine, Scrub	<i>Pinus virginiana</i>		5.0-6.0	7.0
Pine, Table Mountain	<i>Pinus pungens</i>		4.5-5.0	6.0
Pine, White	<i>Pinus Strobus</i>		4.5-6.0	7.5
Pine, Yellow	<i>Pinus echinata</i>	4.5	5.0-6.0	
Pineapple	<i>Ananas sativus</i>		5.0-6.0	7.0
Pineweed	<i>Hypericum gentianoides</i>		4.0-5.0	
Pinesap	<i>Monotropa Hypopitys</i>		5.5-6.0	
Pink	<i>Dianthus glacialis</i>		5.0-6.5	
Pink	<i>Dianthus glacilis neglectus</i>		6.5-7.0	
Pink	<i>Dianthus petraeus</i>		6.5-7.5	
Pink, Alpine	<i>Dianthus alpinus</i>		6.0-8.0	
Pink, Cheddar	<i>Dianthus caesius</i>		6.5-7.5	
Pink, Cliff	<i>Tunica prolifera</i>		5.0-6.0	
Pink, Cushion	<i>Silene acaulis</i>		5.0-6.5	
Pink, Graveyard	<i>Phlox subulata</i>		5.5-7.0	
Pink, Maiden	<i>Dianthus deltoides</i>		6.5-7.5	
Pink, Marsh	<i>Sabbatia dodecandra</i>		6.0-8.0	
Pink, Sea	<i>Statice pseudo-armeria</i>		6.0-7.5	
Pink, Wild	<i>Silene pennsylvanica</i>		6.0-8.0	
Pipsissewa, Common	<i>Chimaphila umbellata</i>		4.5-5.5	6.0
Pipsissewa, Spotted	<i>Chimaphila maculata</i>		5.0-6.0	7.0
Pitcherplant	<i>Darlingtonia californica</i>		4.0-5.5	
Pitcherplant, Candler	<i>Sarracenia rubra</i>		4.0-5.0	
Pitcherplant, Drummond	<i>Sarracenia Drummondii</i>		4.0-5.0	
Pitcherplant, Hooded	<i>Sarracenia minor</i>		4.0-5.0	6.0
Pitcherplant, Mountain	<i>Sarracenia Jonesii</i>	4.5	5.0-6.0	7.0
Pitcherplant, Pale	<i>Sarracenia Sledgii</i>	3.5	4.0-5.0	
Pitcherplant, Sidesaddle	<i>Sarracenia purpurea</i>	3.5	4.0-5.0	6.5
Pitcherplant, Sweet	<i>Sarracenia psilaccinia</i>		4.0-5.0	
Pitcherplant, Trumpet	<i>Sarracenia flava</i>	3.5	4.0-5.0	6.0
Plantain, Bracted	<i>Plantago aristata</i>		5.0-6.5	
Plantain, Common	<i>Plantago major</i>	5.5	6.0-7.5	
Plantain, Narrow-leaved	<i>Plantago lanceolata</i>	5.0	5.5-6.5	
Plantain, Rattlesnake	<i>Epipactis Goodyera</i>		5.0-6.0	
Plantain, Rugel's	<i>Plantago Rugelii</i>		6.0-7.5	
Plantain Lily	<i>Hosta plantaginea</i>		6.0-7.5	
Plum, American	<i>Prunus americana</i>		6.0-8.0	
Plum, Beach	<i>Prunus maritima</i>		6.0-8.0	
Plum, Flowering	<i>Prunus triloba</i>		6.0-7.5	
Pogonia, Nodding	<i>Pogonia trianthophora</i>		5.5-7.0	
Pogonia, Rose	<i>Pogonia ophioglossoides</i>		4.0-5.0	
Pogonia, Whorled	<i>Pogonia verticillata</i>		5.0-6.0	
Poinsettia	<i>Euphorbia pulcherrima</i>	5.5*	6.0-7.5	
Polypody	<i>Polypodium polypodioides</i>		4.5-6.0	

*For disease control.

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Polypody, Common	<i>Polypodium virginianum</i>	5.0	5.5-8.0	
Polypody, Golden	<i>Phlebodium aureum</i>		4.0-5.0	
Polygala, Fringed	<i>Polygala paucifolia</i>		5.0-6.0	
Pondweed	<i>Potamogeton</i> sp.	6.5	7.5-8.5	
Poplar, Silver	<i>Populus alba</i>		6.0-8.0	
Poplar, Weeping	<i>Populus tremula</i> , var. <i>weepula</i>		5.5-7.5	
Poppy	<i>Papaver alpinum</i>		6.0-8.0	
Poppy	<i>Papaver aurantiacum</i>		6.0-8.0	
Poppy, Black Opium	<i>Papaver somniferum</i>		6.0-7.5	
Poppy, Blue	<i>Meconopsis Batleri</i>		6.0-7.0	
Poppy, California	<i>Eschscholtzia californica</i>		6.0-7.5	
Poppy, Iceland	<i>Papaver nudicaule</i>		6.0-7.5	
Poppy, Mikado	<i>Papaver Murselli</i>		6.0-7.5	
Poppy, Oriental	<i>Papaver orientale</i>		6.0-7.5	
Poppy, Plume	<i>Macleaya cordata</i>		6.0-7.5	
Poppy, Shirley	<i>Papaver Rhoeas</i>		6.0-7.5	
Poppy, White Opium	<i>Papaver somniferum</i> , var. <i>album</i>		6.0-7.5	
Poppy Mallow, Low	<i>Callirhoe involucrata</i>		5.5-6.5	
Portulaca	<i>Portulaca oleracea</i>	5.0	5.5-7.5	
Portulacaria	<i>Portulacaria afra</i>		5.5-7.0	
Potato	<i>Solanum tuberosum</i>		4.8-6.5	5.6*
Potato, Sweet	<i>Ipomaea batatas</i>		5.2-6.0	7.5
Prickly Ash	<i>Zanthoxylum trifoliatum</i>		6.0-8.0	
Prickly Pear	<i>Opuntia humifusa</i>		6.5-7.5	
Prickly Pear	<i>Opuntia vulgaris</i>		5.0-6.0	
Prickly Thrift	<i>Acantholimon glumaceum</i>		6.5-7.5	
Primrose	<i>Primula angustifolia</i>		5.0-6.5	
Primrose	<i>Primula Auricula</i>		6.0-8.0	
Primrose	<i>Primula Eripiaksonii</i>		6.5-7.5	
Primrose	<i>Primula farinosa</i>		6.0-8.0	
Primrose	<i>Primula Forrestii</i>		6.5-7.5	
Primrose	<i>Primula frondosa</i>		5.0-6.5	
Primrose	<i>Primula hirsuta</i>		5.0-6.0	
Primrose	<i>Primula Littoniana</i>		5.0-6.5	
Primrose	<i>Primula mistassinica</i>		6.0-8.0	
Primrose	<i>Primula nivalis</i>		5.0-6.5	
Primrose	<i>Primula obconica</i>		5.5-6.5	
Primrose	<i>Primula polyantha</i>		5.5-7.0	
Primrose	<i>Primula Rusbyi</i>		5.0-6.5	
Primrose, Alpine	<i>Primula clusiana</i>		6.5-7.5	
Primrose, English	<i>Primula vulgaris</i>		5.5-6.5	7.5
Primrose, Evening	<i>Oenothera biennis</i>		6.0-8.0	
Primrose, Fairy	<i>Primula malacoides</i>	5.0	6.0-7.5	
Primrose, Parry's	<i>Primula Parryi</i>		5.0-6.5	
Prince's Pine	<i>Chimaphila umbellata</i>		4.5-5.0	6.0
Privet, Californian	<i>Ligustrum ovalifolium</i>		6.0-7.0	
Proso, Yellow Manitoba	<i>Panicum miliaceum</i>		5.0-6.5	
Puccoon	<i>Lithospermum canescens</i>		5.5-6.5	
Pumpkin	<i>Cucurbita Pepo</i>		5.5-7.5	
Punk Tree	<i>Meleuca Leucadendra</i>		5.5-7.0	
Purple Wreath	<i>Petrea volubilis</i>		6.0-7.0	
Purslane, Winter	<i>Montia rivularis</i>		5.0-6.0	
Pussytoes, Common	<i>Antennaria dioica</i>		5.0-6.0	
Putty Root	<i>Aplectrum hyemale</i>		5.0-6.0	
Pyrethrum	<i>Chrysanthemum atrosanguineum</i>		6.0-7.5	
Pyrola, One-flowered	<i>Moneses uniflora</i>		4.5-6.0	

*For scab control.

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Queencup	<i>Clintonia uniflora</i>		5.0-6.0	
Queen-of-the-Prairie	<i>Filipendula rubra</i>		5.0-7.5	
Quince	<i>Cydonia oblonga</i>		6.0-7.5	
Quince, Japanese Flowering	<i>Chaenomeles lagenaria</i>		6.0-7.0	
Radish	<i>Raphanus sativus</i>	5.0	6.0-7.0	
Radish, Wild	<i>Raphanus Raphanistrum</i>		5.5-6.5	7.0
Ragwort, Golden	<i>Senecio aureus</i>		6.0-8.0	
Rampion, Horned	<i>Phyteuma comosum</i>		6.5-7.5	
Rampion, Horned	<i>Phyteuma hemisphaericum</i>		5.0-6.5	
Rampion, Horned	<i>Phyteuma orbiculare</i>		6.5-7.5	
Rape	<i>Brassica Napus</i>	5.5	6.0-7.5	
Raspberry, Black	<i>Rubus occidentalis</i>	4.5	5.0-6.5	
Raspberry, Purple Flowering	<i>Rubus odoratus</i>		5.0-6.0	
Raspberry, Red	<i>Rubus idaeus, var. strigosus</i>	5.0	5.5-7.0	
Rattlesnake-root, White	<i>Prenanthes alba</i>		6.0-7.0	
Redbud, American	<i>Cercis canadensis</i>		5.5-6.5	
Red-Hot Poker	<i>Kniphofia uvaria</i>		6.0-7.5	
Reed	<i>Phragmites communis</i>		5.5-8.0	
Retinospora	<i>Chamaecyparis pisifera</i>		6.0-7.0	
Rhododendron	<i>Rhododendron albiflorum</i>		4.5-6.0	
Rhododendron	<i>Rhododendron carolinianum</i>		4.5-6.0	7.0
Rhododendron	<i>Rhododendron caucasicum</i>		4.5-6.0	
Rhododendron	<i>Rhododendron ferrugineum</i>		4.0-7.0	
Rhododendron	<i>Rhododendron hirsutum</i>		6.0-8.0	
Rhododendron	<i>Rhododendron lapponicum</i>		4.5-6.0	
Rhododendron	<i>Rhododendron mucronulatum</i>		4.5-6.0	
Rhodora	<i>Rhodora canadensis</i>		4.5-5.0	6.0
Rhubarb	<i>Rheum Rhaponticum</i>	5.0	5.5-7.0	
Rhodothamnus	<i>Rhodothamnus Chamaecistus</i>		6.5-7.5	
Rice	<i>Oryza sativa</i>		5.0-6.5	7.0
Richweed	<i>Collinsonia canadensis</i>		6.0-7.0	
Robin's Plantain	<i>Erigeron pulchellus</i>		5.0-7.5	
Rock Beauty	<i>Petrocallis pyrenaica</i>		6.5-7.5	
Rock Cress	<i>Arabis alpina</i>		5.5-7.0	
Rock Cress	<i>Arabis auriculata</i>		6.0-8.0	
Rock Cress	<i>Arabis blepharophylla</i>		5.0-6.5	
Rock Cress	<i>Arabis pauciflora</i>		6.0-8.0	
Rock Cress	<i>Arabis pumila</i>		6.0-8.0	
Rock Cress	<i>Arabis serpyllifolia</i>		6.0-8.0	
Rock Cress	<i>Arabis Thaliana</i>		5.0-6.0	
Rock Cress	<i>Arabis Turrata</i>		6.0-8.0	
Rock Cress, Daisy-leaved	<i>Arabis bellidifolia</i>		6.0-8.0	
Rock Cress, Lyreleaf	<i>Arabis lyrata</i>		6.0-8.0	
Rock Jasmine	<i>Androsace Chamaejasme</i>		5.0-6.5	
Rose, Hybrid Tea	<i>Rosa sp.</i>	5.0	5.5-7.0	7.5
Rose, Climbing	<i>Rosa cathayensis</i>		6.0-7.0	
Rose, Ideal	<i>Rosa polyantha</i>		5.0-6.5	
Rose, Rugosa	<i>Rosa rugosa</i>		6.0-7.0	
Rose, Swamp Wild	<i>Rosa virginiana</i>		6.0-8.0	
Rose, Van Fleet	<i>Rosa Wichuriana</i>		6.0-7.0	
Rose, Wild	<i>Rosa palustris</i>		6.0-8.0	
Rose Acacia	<i>Robinia hispida</i>		6.0-7.0	
Rose-Bay	<i>Rhododendron arbutifolium</i>		4.5-6.0	
Rose Bay, Mountain	<i>Rhododendron catawbiense</i>		5.0-6.0	
Rose Campion	<i>Lychnis Coronaria</i>		5.5-7.0	
Rose of Sharon	<i>Hibiscus syriacus</i>		6.0-7.5	
Rose Mallow	<i>Hibiscus moscheutos</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Rosemary, Bog	<i>Andromeda glaucophylla</i>		3.0-5.0	
Rosemary, Downy Bog	<i>Andromeda polifolia</i>		4.5-6.0	
Rubus, Dwarf	<i>Rubus pubescens</i>		4.0-6.0	
Rue Anemone	<i>Anemonella thalictroides</i>		5.0-7.5	
Running Pine	<i>Lycopodium clavatum</i>		4.5-6.0	
Rush	<i>Juncus Hostii</i>		6.0-8.0	
Rush	<i>Juncus squarrosus</i>		5.0-6.0	
Rush	<i>Juncus supinus</i>		5.0-6.0	
Rush	<i>Juncus Tenageia</i>		5.0-6.0	
Rush, Canada	<i>Juncus canadensis</i>		7.0-8.2	
Rush, Grass-Leaf	<i>Juncus aristulatus</i>		4.5-5.0	
Rush, Spike	<i>Eleocharis olivaceae</i>		7.0-8.2	
Rush, Twig	<i>Mariscus mariscoides</i>		4.5-5.0	
Rush, Wood	<i>Luzula lutea</i>		5.0-6.0	
Rush, Wood	<i>Luzula silvatica</i>		5.0-6.0	
Rush, Wood	<i>Luzula spadicea</i>		5.0-6.0	
Rutabaga	<i>Brassica Napobrassica</i>	5.0	5.5-7.0	7.5
Rye	<i>Secale cereale</i>	4.5	5.0-7.0	8.0
Rye, Wild	<i>Elymus canadensis</i>		7.0-8.0	
Rye, Virginian	<i>Elymus virginicus</i>		6.0-8.0	
Sainfoin	<i>Onobrychis viciifolia</i>		6.0-7.5	
Salsify	<i>Tragopogon porrifolius</i>		6.0-7.5	
Saltbush	<i>Atriplex Breweri</i>		6.0-8.0	
Salvia	<i>Salvia farinacea</i>		6.0-7.5	
Sandwort	<i>Arenaria groenlandica</i>		5.0-6.0	
Sandwort	<i>Arenaria aretioides</i>		6.0-8.0	
Sandwort, Bluntleaf	<i>Moehringia lateriflora</i>		6.0-8.0	
Sandwort, Larch-leaved	<i>Arenaria laricifolia</i>		5.0-6.5	
Sandwort, Mossy	<i>Moehringia muscosa</i>		6.0-8.0	
Sandwort, Thyme-leaved	<i>Arenaria serpyllifolia</i>		6.0-7.5	
Sandwort, Tufted	<i>Arenaria Bauhinorum</i>		6.5-7.5	
Sarsaparilla, Wild	<i>Aralia nudicaulis</i>		5.0-7.5	
Sassafras	<i>Sassafras variifolium</i>		6.0-7.0	
Saxifrage	<i>Saxifraga aizoon</i>		6.0-8.0	
Saxifrage	<i>Saxifraga adscendens</i>		6.0-8.0	
Saxifrage	<i>Saxifraga aspera</i>		5.0-6.0	
Saxifrage	<i>Saxifraga Bertoloni</i>		6.5-7.5	
Saxifrage	<i>Saxifraga bryoides</i>		5.0-6.0	
Saxifrage	<i>Saxifraga caesia</i>		6.0-8.0	
Saxifrage	<i>Saxifraga Cotyledon</i>		5.0-6.0	
Saxifrage	<i>Saxifraga exarata</i>		5.0-6.0	
Saxifrage	<i>Saxifraga lingulata</i>		6.5-7.5	
Saxifrage	<i>Saxifraga lingulata lantoscana</i>		6.5-7.5	
Saxifrage	<i>Saxifraga longifolia</i>		6.5-7.5	
Saxifrage	<i>Saxifraga marginata</i>		6.5-7.5	
Saxifrage	<i>Saxifraga tridactylites</i>		6.0-8.0	
Saxifrage	<i>Saxifraga virginianensis</i>		6.0-8.0	
Saxifrage, Mountain	<i>Saxifraga oppositifolia</i>		6.0-8.0	
Saxifrage, Yellow	<i>Saxifraga aizoides</i>		6.0-8.0	
Scabiosa	<i>Scabiosa atropurpurea</i>		4.8-7.5	
Scarlet Sage	<i>Salvia splendens</i>	5.0	5.5-6.5	
Schizanthus	<i>Schizanthus Wisetoniensis</i>		6.0-7.0	
Scleranthus (Knawel)	<i>Scleranthus annuus</i>		5.0-7.0	7.5
Scotch Broom	<i>Cytisus scoparius</i>		5.0-6.0	
Sea Lavender	<i>Limonium tataricum</i>		6.0-7.5	
Sedge	<i>Carex alba</i>		6.0-8.0	
Sedge	<i>Carex brachystachis</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Sedge.....	<i>Carex brunnescens</i>		5.0-6.0	
Sedge.....	<i>Carex canescens</i>		5.0-6.0	
Sedge.....	<i>Carex curvula</i>		5.0-6.0	
Sedge.....	<i>Carex firma</i>		6.0-8.0	
Sedge.....	<i>Carex frigida</i>		5.0-6.0	
Sedge.....	<i>Carex glauca</i>	5.5	6.0-8.0	
Sedge.....	<i>Carex globularis</i>		4.0-5.0	
Sedge.....	<i>Carex hirta</i>	6.0	6.5-8.0	
Sedge.....	<i>Carex Halleriana</i>		6.0-8.0	
Sedge.....	<i>Carex humilis</i>		6.0-8.0	
Sedge.....	<i>Carex mucronata</i>		6.0-8.0	
Sedge.....	<i>Carex panicea</i>		4.0-8.0	
Sedge.....	<i>Carex pauciflora</i>		5.0-6.0	
Sedge.....	<i>Carex pendula</i>		5.0-6.0	
Sedge.....	<i>Carex pilosa</i>		5.0-6.0	
Sedge.....	<i>Carex rigida</i>		5.0-6.0	
Sedge.....	<i>Carex vulgaris</i>		4.0-7.5	8.0
Sedge.....	<i>Scirpus americanus</i>		7.0-8.2	
Sedge, Fraser.....	<i>Carex Fraseri</i>		5.0-6.0	
Sedge, Woolly.....	<i>Carex lanuginosa</i>		6.0-8.0	
Selaginella, Rock.....	<i>Selaginella rupestris</i>		6.0-7.0	
Self-Heal.....	<i>Prunella alba</i>		6.0-8.0	
Self-Heal.....	<i>Prunella grandiflora</i>		6.0-8.0	
Senna, Wild.....	<i>Cassia marilandica</i>		6.0-8.0	
Serradella.....	<i>Ornithopus sativus</i>		5.4-6.5	8.0
Shadbush (Service Berry).....	<i>Amelanchier canadensis</i>		5.0-6.0	7.0
Shadbush (Service Berry).....	<i>Amelanchier humilis</i>		6.5-7.5	
Shallot.....	<i>Allium ascalonicum</i>		5.5-7.0	
Sheep Laurel.....	<i>Kalmia angustifolia</i>		4.5-5.0	
Shinleaf.....	<i>Pyrola elliptica</i>		5.0-6.0	
Shinleaf.....	<i>Pyrola rotundifolia</i>		5.0-6.5	
Shooting Star.....	<i>Dodecatheon Media</i>		5.5-7.0	
Silverbell, Great.....	<i>Halesia carolina</i>		5.0-6.0	
Silverberry.....	<i>Elaeagnus argentea</i>		6.0-7.0	
Smartweed.....	<i>Polygonum Hydropiper</i>		6.0-7.5	
Snakeroot, Black.....	<i>Cimicifuga racemosa</i>		5.0-7.5	
Snakeroot, White.....	<i>Eupatorium urticaefolium</i>		5.0-7.5	
Snapdragon.....	<i>Antirrhinum bellidifolium</i>		5.5-7.0	
Snapdragon.....	<i>Antirrhinum majus</i>	5.0	6.0-7.5	8.0
Sneezeweed.....	<i>Helenium autumnale</i>		5.0-7.5	
Sneezeweed.....	<i>Helenium tenuifolium</i>		7.0-8.0	
Sneezewort.....	<i>Achillea Ptarmica</i>		6.0-7.5	
Snowball.....	<i>Viburnum opulus</i> , var. <i>sterile</i>		6.5-7.5	
Snowberry, Creeping.....	<i>Chiogenes hispidula</i>		5.0-6.5	
Snowberry, Pink.....	<i>Symphoricarpos microphyllus</i>		6.0-7.0	
Snowdrop.....	<i>Galanthus Elwesii</i>		6.0-8.0	
Soapwort.....	<i>Saponaria ocymoides</i>		6.0-7.5	
Solomon's-Seal.....	<i>Polygonatum pubescens</i>		4.5-6.0	7.0
Solomon's-Seal, Dwarf.....	<i>Smilacina trifolia</i>		4.5-5.0	
Solomon's-Seal, False.....	<i>Smilacina stellata</i>		5.0-6.0	
Sorghum.....	<i>Sorghum vulgares</i>	4.5	5.5-7.5	
Sorrel, Garden.....	<i>Rumex Acetosella</i>		4.0-7.0	
Sorrel, Northern.....	<i>Oxalis montana</i>		4.0-6.0	
Sorrel, Sheep.....	<i>Rumex Acetosella</i>		5.5-7.0	
Sorrel, Violet Wood.....	<i>Oxalis violacea</i>		5.0-7.5	
Sorrel, Wood.....	<i>Oxalis oregana</i>		5.0-6.0	
Sourwood.....	<i>Oxydendrum arboreum</i>	4.5	5.5-6.5	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Soybean	<i>Glycine Max</i>	5.5	6.0-7.0	
Spanish Bayonet	<i>Yucca filamentosa</i>		5.5-7.0	
Spearmint	<i>Mentha spicata</i>	5.0	5.5-7.5	
Speedwell	<i>Veronica longifolia</i> , var. <i>subsessilis</i>		5.5-7.5	
Speedwell	<i>Veronica rupestris</i>		5.5-7.5	
Speedwell	<i>Veronica spicata</i>		5.0-6.0	
Speedwell, Common	<i>Veronica officinalis</i>		5.5-6.5	
Speedwell, Daisy	<i>Veronica bellidionides</i>		5.0-6.0	
Speedwell, Field	<i>Veronica agrostis</i>		6.0-7.5	
Speedwell, Thyme-leaf	<i>Veronica serpyllifolia</i>		5.0-7.5	
Spiderwort	<i>Tradescantia occidentalis</i>		6.0-8.0	
Spiderwort	<i>Tradescantia virginiana</i>		5.0-7.5	
Spiderwort, Dwarf	<i>Tradescantia micrantha</i>		5.0-6.0	
Spicebush	<i>Benzoin aestivale</i>		4.5-6.0	
Spikenard	<i>Smilacina racemosa</i>		4.0-7.0	
Spinach	<i>Spinacia oleracea</i>	5.5	6.0-7.5	8.5
Spirea	<i>Spiraea Billiardii</i>		6.0-7.5	
Spirea	<i>Spiraea Bumalda</i>		6.0-7.0	
Spirea	<i>Spiraea Vanhouttei</i>		6.0-7.0	
Spirea, Japanese Pink	<i>Spiraea japonica</i> , var. <i>ruberrima</i>		6.0-7.5	
Spirea, Japanese White	<i>Spiraea japonica</i>		6.0-7.5	
Spirea, Rock	<i>Holodiscus discolor</i>		5.5-6.5	
Spleenwort	<i>Asplenium ebroides</i>	5.5	6.0-7.5	8.5
Spleenwort	<i>Asplenium fissum</i>		6.0-8.0	
Spleenwort	<i>Asplenium fontanum</i>		6.0-8.0	
Spleenwort	<i>Asplenium pinnatifidum</i>		4.5-5.5	7.0
Spleenwort	<i>Asplenium parvulum</i>	6.0	7.0-8.5	
Spleenwort	<i>Asplenium platyneuron</i>	5.0	5.5-8.0	8.5
Spleenwort, Bradley's	<i>Asplenium Bradleyi</i>		4.0-6.0	7.0
Spleenwort, Green-stalked	<i>Asplenium viride</i>		6.0-8.0	
Spleenwort, Maidenhair	<i>Asplenium Trichomanes</i>	5.5	6.0-8.5	
Spleenwort, Mountain	<i>Asplenium montanum</i>		4.0-5.5	6.0
Spleenwort, Narrow-leaved	<i>Athyrium angustifolium</i>	5.5	6.0-7.5	8.0
Spleenwort, Silvery	<i>Athyrium Thelypter</i>	5.0	5.5-7.5	8.0
Spring Beauty	<i>Claytonia caroliniana</i>		5.0-6.5	
Spring Beauty	<i>Claytonia virginica</i>		5.0-6.5	
Spring Beauty, Alpine	<i>Claytonia megarrhiza</i>		5.0-6.5	
Spruce, Black	<i>Picea mariana</i>		4.0-5.0	6.0
Spruce, Colorado	<i>Picea pungens</i>		6.0-7.0	
Spruce, Norway	<i>Picea Abies</i>		5.0-6.0	7.0
Spruce, Red	<i>Picea rubra</i>		4.5-5.0	6.0
Spruce, Sitka	<i>Picea sitchensis</i>		5.0-6.0	7.0
Spruce, White	<i>Picea glauca</i>		5.0-6.0	7.0
Spurge	<i>Euphorbia Helioscopia</i>		6.0-7.5	
Spurge, Flowering	<i>Euphorbia corollata</i>		5.0-6.0	
Spurge, Japanese	<i>Pachysandra terminalis</i>		4.5-5.5	
Spurrey	<i>Spergula pentandra</i>		5.0-6.5	
Spurrey, Common	<i>Spergula arvensis</i>		5.0-7.0	7.5
Spurrey, Sand	<i>Spergularia rubra</i>		5.0-6.0	
Squash, Crookneck	<i>Cucurbita moschata</i>		6.0-7.5	
Squash, Hubbard	<i>Cucurbita maxima</i>		5.5-7.0	
Squill	<i>Scilla campanulata</i>		6.0-8.0	
Squill	<i>Scilla sibirica</i>		6.0-8.0	
Stagger Bush	<i>Xolisma mariana</i>		4.0-5.0	6.0
Starflower	<i>Trientalis americana</i>		4.0-5.0	
Star Grass	<i>Aletris farinosa</i>		5.0-6.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Star Grass.....	<i>Hypoxis hirsuta</i>		4.0-5.0	
Star-of-Bethlehem.....	<i>Nicotiana affinis</i>		6.0-8.0	
Stenanthium.....	<i>Stenanthium robustum</i>		4.0-5.0	
Stewartia.....	<i>Stewartia Malacodendron</i>		5.0-6.0	
St. John's-wort.....	<i>Hypericum perforatum</i>		6.0-8.0	
Stock.....	<i>Mathiola bicornis</i>		6.0-7.5	
Stoncrop.....	<i>Sedum alpestre</i>		5.0-6.0	
Stoncrop.....	<i>Sedum atratum</i>		6.0-8.0	
Stoncrop.....	<i>Sedum dasyphyllum</i>		6.5-7.5	
Stoncrop.....	<i>Sedum Ewersii</i>		6.5-7.5	
Stoncrop.....	<i>Sedum spectabile</i>		5.5-7.0	
Stoncrop, Roseroot.....	<i>Sedum roseum</i>		5.0-6.0	
Stone Mint.....	<i>Cunila origanoides</i>		5.0-6.0	
Storax.....	<i>Styrax americana</i>		5.0-6.0	
Storax, Japanese.....	<i>Styrax japonica</i>		5.0-6.0	
Stork's Bill.....	<i>Erodium absinthioides</i>		6.5-7.5	
Stork's Bill.....	<i>Erodium chamaedrioides</i>		6.5-7.5	
Strawberry.....	<i>Fragaria collina</i>	4.6	5.0-6.5	8.2
Strawberry, Wild.....	<i>Fragaria virginiana</i>		5.0-7.5	
Sugar Cane.....	<i>Saccharum officinarum</i>	5.0	6.0-8.0	
Sumac, Shining.....	<i>Rhus copallina</i>		5.5-7.0	
Sumac, Smooth.....	<i>Rhus glabra</i>		5.0-6.0	
Sumac, Staghorn.....	<i>Rhus typhina</i>		5.0-6.0	
Sundew.....	<i>Drosera longifolia</i>		4.0-5.0	6.0
Sundew, Roundleaf.....	<i>Drosera rotundifolia</i>		5.0-6.0	
Sundrops.....	<i>Oenothera fruticosa</i>		5.0-6.0	
Sunflower.....	<i>Helianthus angustifolius</i>		6.0-7.5	
Sunflower.....	<i>Helianthus annuus</i>		6.0-7.5	
Sunflower, Double.....	<i>Helianthus decapetalus</i> , var. <i>multiflorus</i>		6.0-7.5	
Sunflower, Tall.....	<i>Helianthus giganteus</i>		6.0-8.0	
Sunflower, Ten-Petaled.....	<i>Helianthus decapetalus</i>		5.0-7.5	
Sun Rose.....	<i>Helianthemum appenninum</i>		6.0-7.5	
Sun Rose.....	<i>Helianthemum Chamacistus</i>		6.0-7.5	
Sun Rose.....	<i>Helianthemum lasianthemum</i>		6.5-7.5	
Swamp Pink.....	<i>Helonias bullata</i>		4.0-6.0	
Swan River Daisy.....	<i>Brachycome iberidifolia</i>		6.0-7.5	
Sweet Bells.....	<i>Leucothoe racemosa</i>	4.7	5.5-6.0	
Sweet Cicely.....	<i>Osmorhiza longistylis</i>		5.0-6.5	
Sweet Fern.....	<i>Comptonia asplenifolia</i>		5.0-6.0	
Sweet Gum.....	<i>Liquidambar styraciflua</i>		6.0-7.0	
Sweetleaf, Asiatic.....	<i>Symplocos paniculata</i>		5.0-6.0	
Sweetleaf.....	<i>Symplocos tinctoria</i>		6.0-7.0	
Sweet Rocket.....	<i>Hesperis matronalis</i>		5.5-6.5	
Sweet Shrub.....	<i>Calycanthus floridus</i>		6.0-7.0	
Sweet Sultan.....	<i>Centaurea imperialis</i>		6.0-7.5	
Sweet William.....	<i>Dianthus barbatus</i>		6.0-7.5	
Sweet William, Wild.....	<i>Phlox divaricata</i>		5.0-6.5	
Sweet Woodruff.....	<i>Asperula odorata</i>		4.0-8.0	
Swiss Chard.....	<i>Beta vulgaris</i> , var. <i>cicla</i>		6.0-7.5	
Sycamore.....	<i>Platanus occidentalis</i>		6.0-7.5	
Synthyris.....	<i>Synthyris alpina</i>		5.0-6.5	
Synthyris.....	<i>Synthyris pinnatifida</i>		5.0-6.5	
Synthyris.....	<i>Synthyris plantaginica</i>		5.0-6.5	
Synthyris.....	<i>Synthyris reniformis</i>		5.0-6.5	
Synthyris.....	<i>Synthyris rotundifolia</i>		5.0-6.5	
Syringa, Sweet.....	<i>Philadelphus coronarius</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Tamarack.....	<i>Larix laricina</i>	4.5	5.0-6.5	
Tamarix, False.....	<i>Myricaria germanica</i>		6.5-8.0	
Teaberry.....	<i>Gaultheria procumbens</i>		4.5-6.0	7.0
Tea Tree, Australian.....	<i>Leptospermum laevigatum</i>		6.0-8.0	
Thistle.....	<i>Cirsium heterophyllum</i>		5.0-6.0	
Thistle.....	<i>Cirsium oleraceum</i>	6.0	6.5-8.0	
Thistle.....	<i>Cirsium rivulare</i>		5.0-6.0	
Thistle, Barnaby's.....	<i>Centaurea solstitialis</i>		6.0-8.0	
Thistle, Canada.....	<i>Cirsium arvense</i>		5.0-7.5	
Thistle, Plumed.....	<i>Carlina acaulis</i>		6.5-7.5	
Thistle, Plumless.....	<i>Carduus defloratus</i>		6.0-8.0	
Thistle, Russian.....	<i>Salsola pestifer</i>		6.5-8.0	
Thistle, Sow.....	<i>Sonchus arvensis</i>		6.0-7.5	
Thistle, Swamp.....	<i>Cirsium palustre</i>		5.0-7.5	
Thornapple.....	<i>Datura sanguinea</i>		5.5-6.5	7.5
Thoroughwort, White.....	<i>Eupatorium album</i>		4.5-5.0	
Thunbergia.....	<i>Thunbergia grandiflora</i>		5.5-7.5	
Thyme, Creeping.....	<i>Thymus Serpyllum</i>		5.5-7.0	
Tickseed.....	<i>Coreopsis grandiflora</i>		6.0-7.5	
Tickseed, Hairy.....	<i>Coreopsis crassifolia</i>		5.0-6.0	
Tickseed, Lance.....	<i>Coreopsis lanceolata</i>		5.5-7.0	
Tickseed, Rose.....	<i>Coreopsis rosea</i>		5.0-6.0	
Tickseed, Threadleaf.....	<i>Coreopsis verticillata</i>		5.0-6.0	
Tick Trefoil.....	<i>Desmodium canadense</i>		5.0-7.5	
Toadflax, Round-leaved.....	<i>Linaria spuria</i>		6.0-8.0	
Toadflax, Sharp-pointed.....	<i>Linaria Elatine</i>		6.0-8.0	
Toadflax, Small.....	<i>Linaria minor</i>		6.0-8.0	
Tobacco.....	<i>Nicotiana Tabacum</i>	4.5	5.5-7.5	6.0*
Tomato.....	<i>Lycopersicum esculentum</i> , var. <i>commune</i>	4.5	5.5-7.5	
Tom Thumb.....	<i>Ageratum conyzoides</i>		6.0-7.5	
Toothwort.....	<i>Dentaria diphylla</i>		5.0-6.0	
Torilis.....	<i>Caucalis daucoides</i>		6.0-8.0	
Trailing Arbutus.....	<i>Epigaea repens</i>		4.5-6.0	7.0
Transvaal Daisy.....	<i>Gerberia Jamesonii</i>		6.5-7.5	
Tree, Groundsel.....	<i>Baccharis halimifolia</i>		7.0-8.0	
Tree-of-Heaven.....	<i>Ailanthus altissima</i>		6.0-7.0	
Trefoil, Birdsfoot.....	<i>Lotus corniculatus</i>		5.5-7.0	
Trefoil, Yellow.....	<i>Medicago lupulina</i>		6.0-7.5	
Trillium, Common.....	<i>Trillium grandiflorum</i>		5.0-6.5	
Trillium, Prairie.....	<i>Trillium recurvatum</i>		5.0-6.5	
Trillium, Painted.....	<i>Trillium undulatum</i>		4.5-6.0	7.0
Trillium, Rose.....	<i>Trillium stylosum</i>		5.0-6.5	
Trillium, Snow.....	<i>Trillium nivale</i>		5.0-6.0	
Trillium, Toad.....	<i>Trillium sessile</i>		5.0-6.0	
Trillium, Wake Robin.....	<i>Trillium erectum</i>	6.0	7.0-7.5	
Tuberose.....	<i>Polyanthus tuberosa</i>		6.0-7.0	
Tulip, Common.....	<i>Tulipa Gesneriana</i>		6.0-7.0	7.5
Tulip Tree.....	<i>Liriodendron Tulipifera</i>		6.0-7.0	
Tung-oil Tree.....	<i>Aleurites Fordii</i>		5.0-6.0	
Tupelo.....	<i>Nyssa sylvatica</i>		6.0-7.0	
Turkey's Beard.....	<i>Xerophyllum asphodeloides</i>		4.0-5.0	
Turk's Cap.....	<i>Malva viscus grandiflorus</i>		6.0-7.0	
Turnip.....	<i>Brassica Rapa</i>		5.5-6.8	
Turtlehead.....	<i>Chelone glabra</i>		5.0-6.0	
Turtlehead, Purple.....	<i>Chelone Lyoni</i>		5.0-6.0	

*For disease control.

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Twayblade, Heart-leaved	<i>Listera cordata</i>		5.0-6.0	
Twayblade, Large	<i>Liparis liliifolia</i>		5.0-7.5	
Twayblade, Loesels	<i>Liparis Loeselii</i>		4.5-6.5	
Twinflower, American	<i>Linnaea borealis</i> , var. <i>americana</i>		4.0-5.0	
Twinleaf	<i>Jeffersonia diphylla</i>		6.0-8.0	
Twisted-stalk	<i>Streptopus amplexifolius</i>		4.5-5.0	
Twisted-stalk, Rosy	<i>Streptopus roseus</i>		4.5-5.5	
Umbrella Leaf	<i>Diphylleia cymosa</i>		5.0-6.0	
Valerian	<i>Valeriana acutiloba</i>		5.0-6.5	
Valerian	<i>Valeriana alpinus</i>		6.5-7.5	
Valerian	<i>Valeriana saxatilia</i>		6.0-8.0	
Valerian	<i>Valeriana supina</i>		6.0-8.0	
Valerian, Common	<i>Valeriana officinalis</i>		5.0-6.0	
Valerian, Greek	<i>Polemonium reptans</i>		6.0-8.0	
Vanilla, Carolina	<i>Tritisa odoratissima</i>		5.0-6.0	
Venus' Comb	<i>Scandix Pecten-Veneris</i>		6.0-8.0	
Venus' Fly Trap	<i>Dionaea muscipula</i>		4.5-6.0	7.0
Verbena	<i>Verbena hybrida</i>		6.0-8.0	
Vervain, Blue	<i>Verbena hastata</i>		5.0-7.5	
Vetch, Blake's Milk	<i>Astragalus Blakei</i>		6.0-8.0	
Vetch, Chinese Milk	<i>Astragalus sinicus</i>		5.0-6.5	
Vetch, Hairy	<i>Vicia villosa</i>	4.5	5.2-7.0	
Vetch, Kidney	<i>Anthyllis Vulneraria</i>	5.5	6.0-7.0	8.0
Vetch, Milk	<i>Astragalus exscapus</i>		6.0-8.0	
Vetch, Spring	<i>Vicia sativa</i>		5.5-7.5	
Viburnum	<i>Viburnum tomentosum</i>		6.5-7.5	
Viburnum	<i>Viburnum acerifolium</i>		4.0-5.0	
Violet	<i>Viola canina</i>		6.0-8.0	
Violet, Birdsfoot	<i>Viola pedata</i>		5.0-6.0	
Violet, Blue Common	<i>Viola papilionacea</i>		5.0-7.5	
Violet, Canadian	<i>Viola canadensis</i>		6.0-8.0	
Violet, Dog	<i>Viola conspersa</i>		5.0-7.5	
Violet, Dog's-tooth	<i>Erythron Hendersonii</i>		5.0-6.0	
Violet, European Swamp	<i>Viola palustris</i>		4.0-5.5	6.5
Violet, European Yellow	<i>Viola lutea</i>		6.0-8.0	
Violet, Horned	<i>Viola cornuta</i>		5.5-7.5	
Violet, Lilac Birdsfoot	<i>Viola lineariloba</i>		5.0-6.0	
Violet, Round-leaved	<i>Viola rotundifolia</i>		5.5-6.5	
Violet, Smooth Yellow	<i>Viola eriocarpa</i>		5.0-7.5	
Violet, Sweet	<i>Viola odorata</i>		6.0-7.5	
Violet, Sweet White	<i>Viola blanda</i>		6.0-8.0	
Violet, White	<i>Viola alba</i>		6.0-8.0	
Virginia Creeper	<i>Psedera quinquefolia</i>		5.0-7.5	
Virgin's Bower	<i>Clematis paniculata</i>		6.0-7.0	
Wallflower	<i>Cheiranthus Allionii</i>		5.5-7.5	
Wallflower	<i>Cheiranthus alpinus</i>		6.5-7.5	
Wallflower	<i>Cheiranthus Cheiri</i>		6.0-8.0	
Walnut, Black	<i>Juglans nigra</i>		6.0-8.0	
Water Arum	<i>Calla palustris</i>		4.0-5.5	
Water Cress	<i>Nasturtium aquaticum</i>		6.0-8.0	
Water Lily	<i>Nymphaea odorata</i>		5.5-6.5	
Watermelon	<i>Citrullus vulgaris</i>	5.0	5.5-6.5	
Wayfaring Tree	<i>Viburnum Lantana</i>		5.5-7.0	
Weigela, Pink	<i>Dierodilla florida</i>		6.0-7.0	
Wheat	<i>Triticum aestivum</i>	5.0	5.5-7.5	
Whitlow-wort	<i>Paronychia argyrocoma</i>		4.0-5.0	
Willow	<i>Salix reticulata</i>		6.0-8.0	

Common Name	Botanical Name	Minimum pH limit	Optimum pH range	Maximum pH limit
Willow.....	<i>Salix retusa</i>		6.0-8.0	
Willow.....	<i>Salix serpyllifolia</i>		6.0-8.0	
Willow, Creeping.....	<i>Salix Uva-ursi</i>		4.5-5.0	
Willow, Dwarf Alpine.....	<i>Salix herbacea</i>		5.0-6.0	
Willow, Pussy.....	<i>Salix discolor</i>		6.5-8.0	
Willow, Virginia.....	<i>Itea virginica</i>		6.0-7.0	
Willow, Water.....	<i>Decodon verticillatus</i>		5.0-6.0	
Willow, Weeping.....	<i>Salix babylonica</i>		5.0-6.0	
Winterberry.....	<i>Ilex verticillata</i>		5.0-6.0	
Winter Creeper.....	<i>Euonymus radicans</i> , var. <i>regata</i>		6.0-7.0	
Wintergreen.....	<i>Pyrola americana</i>		4.5-6.0	7.0
Wintergreen.....	<i>Pyrola asarifolia</i>		6.5-7.0	
Wintergreen.....	<i>Pyrola chlorantha</i>		5.5-7.0	
Wintergreen.....	<i>Pyrola incarnata</i>		4.5-5.0	
Wintergreen.....	<i>Pyrola secunda</i>		5.0-6.0	7.0
Wintergreen, Aromatic.....	<i>Gaultheria procumbens</i>		4.5-6.0	6.5
Wintergreen, Flowering.....	<i>Polygala paucifolia</i>		4.0-5.0	
Wistaria.....	<i>Wistaria floribunda</i>		6.0-8.0	
Witch Hazel.....	<i>Hamamelis virginiana</i>		6.0-7.0	
Withe Rod.....	<i>Viburnum cassinoides</i>		5.0-6.0	
Withe Rod, Smooth.....	<i>Viburnum nudum</i>		5.0-6.0	
Woad Waxen.....	<i>Genista anglica</i>		5.0-6.0	
Woolflower.....	<i>Celosia Childs</i>		6.0-7.5	
Wormwood.....	<i>Artemisia Mutellina</i>		5.0-6.5	
Wormwood.....	<i>Artemisia spicata</i>		5.0-6.5	
Wormwood, Steller's.....	<i>Artemisia Stelleriana</i>		6.0-8.0	
Woundwort, Woolly.....	<i>Stachys lanata</i>		6.0-7.5	
Yarrow.....	<i>Achillea atrata</i>		6.5-8.0	
Yarrow.....	<i>Achillea herba-rota</i>		5.0-6.0	
Yarrow.....	<i>Achillea moschata</i>		5.0-7.0	
Yarrow.....	<i>Achillea nana</i>		5.0-6.0	
Yarrow.....	<i>Achillea rosea</i>		5.0-7.5	
Yellowroot.....	<i>Zanthorhiza apifolia</i>		5.0-6.0	
Yellow-wood.....	<i>Cladrastis lutea</i>		6.0-8.0	
Yew, Canada.....	<i>Taxus canadensis</i>		5.0-6.0	7.0
Yew, Japanese.....	<i>Taxus cuspidata</i>		6.0-7.0	
Zenobia.....	<i>Zenobia pulverulenta</i>		5.0-6.0	
Zinnia.....	<i>Zinnia elegans</i>	5.0	5.5-7.5	

LITERATURE REVIEWED

1. Arrhenius, O., *Arkive Bot.*, **18**: 1; *Ind. Eng. Chem.*, **20**: 219.
2. Auten, B., *Florists Rev.*, **80**: 20, July 22.
3. Bailey, L. H., "Hortus", Macmillan Co. (1935).
4. Blanck, E., "Handbuch der Bodenlehre", Achter Band.
5. Bray, R. H. *Florists Rev.*, **75**: 12, Feb. 7.
6. Burkholder, W. H., *J. Agr. Res.*, **44**: 175.
7. Burnette, R. M., and Mowry, H., *Soil Sci.*, **41**: 71; *Florists Rev.*, **80**: 23, Aug. 19.
8. Butterfield, H. M., *Calif. Agr. Exp. Sta. Ser. Cir.* 53.
9. Chadwick, L. C., 10th Natl. Shade Tree Con., Proc. Ann. Meeting, p. 14 (1934); *Florists Rev.*, **66**: 20, June 19; **73**: 26, March 8.
10. Daunoy, H. L., *Am. Rose Ann.*, p. 85 (1936).
11. Decoux, L., *Ann. Gembloux*, **35**: 129.
12. Dobert, H., *Z. Pflanzenernähr. Düngung. u. Bodenkn.*, **B11**: 173.
13. Domontovitch, M., and Abolina, G., *Deut. Landw. Rundschau*, **1**: 815.
14. Dufrenoy, J., *Rev. Gen. Botany*, **44**: 153.
15. Durand, H., "Wild Flowers and Ferns", G. P. Putnam's Sons, N. Y. (1925).
16. Economie, V., *Fortsch. Landw.*, **7**: 242.
17. Emmert, E. M., *Ky. Agr. Exp. Sta. Res. Bul.* 314.
18. Farham, R. B., *Florists Rev.*, **78**: 19, May 14; **80**: 24, April 29.
19. *Florists Review*, **69**: 24, Dec. 3; **71**: 16, Jan. 19; **72**: 11, Jan. 5; **73**: 18, Jan. 25; **75**: 21, Jan. 31; **75**: 15, Jan. 17; **76**: 19, July 18; **77**: 9, Feb. 6; **77**: 18, Jan. 23; **77**: 18, Jan. 16; **78**: 13, Sept. 10; **78**: 21, July 9; **78**: 27, July 2; **78**: 21, June 4; **78**: 13, Apr. 23; **78**: 19, June 4; **79**: 29, Feb. 18; **79**: 17, Feb. 11; **79**: 23, Jan. 7; **79**: 20, Oct. 29.
20. Gallagher, P. H., *J. Dept. Agr. Ireland*, **29**: 61.
21. Gourley, J. H., *Plant Physiol.*, **7**: 739.
22. "Gray's New Manual of Botany", American Book Co., N. Y. (1908).
23. Gregory, Dr., *Florists Rev.*, **79**: 29, Mar. 11.
24. Gustafson, F. G., *Mich. Acad. of Sci.*, **6**: 237.
25. Haas, A. R. C., *Calif. Citograph*, **4**: 23.
26. Hardenburg, E. V., *Plant Physiology*, **3**: 199-210.
27. Heite, C. Jr., *Florists Rev.*, **78**: 28, Apr. 23.
28. Hartwell, B. L., and Damon, S. C., *R. I. Agr. Exp. Sta. Bul.* 160.
29. Hendrick, J., and Moore, W., *Trans. Highland and Agr. Soc. Scotland*, **47**: 34.
30. Hitchcock, A. E., and Zimmerman, P. W., *Proc. Am. Soc. Hort. Sci.*, p. 383 (1926).
31. Jones, J. P., *Mass. Agr. Exp. Sta. Bul.* 237.
32. Jones, L. H., *Florists Rev.*, **74**: 9, May 24.
33. Johnston, S., *Mich. Agr. Exp. Sta. Bul.* 252.
34. Kirste, H., *Z. Pflanzenernähr. Düngung. u. Bodenkn.*, **5A**: 129.
35. Krone, P. H., *Florists Rev.*, **79**: 29, Feb. 18.
36. Kurz, H., *Amer. Naturalist*, **64**: 314.
37. Laurie, A., *Florists Rev.*, **73**: 28, Mar. 15.
38. Lemmerman, O., and others, *Z. Pflanzenernähr. Düngung. u. Bodenkn.*, **11B**: 454.
39. Lineberry, R. A., and Mitchell, J. E., *Sci. Soc.*, **50**: 39.
40. Malherbe, I. de V., *S. African J. Sci.*, **27**: 253.
41. McElwee, E. W., *Florists Rev.*, **76**: 12, July 25.
42. Morgan, M. F., *Fert. Rev.*, March-April (1937).
43. Odland, T. E., and others, *R. I. Agr. Exp. Sta. Bul.* 250.
44. Obermayer, E., *Enähr. d. Pflanze*, **34**, 15/16 (1938).
45. Ogg, W. C., *Scottish J. Agr.*, **10**: 224.
46. Olsen, C., *Comp. rend. trav. Lab. Carlsberg* **16**, No. 2.
47. Parker, M. M., *Proc. Am. Soc. Hort. Sci.* (1932): 455.
48. Pettinger, N. A., *Va. Agr. Exp. Sta. Bul.* 136.
49. Poesch, G. H., *Ohio Agr. Exp. Sta. Bul.* **548**: 56; *Bul.* 586. *Florists Rev.*, **78**: 36, Apr. 16.
50. Post, K., *Florists Rev.*, **75**: 21, Oct. 25.
51. Pryanishnikov, D. M., *Udobrcene i Uroshai*, **3**: 53.
52. Ringdall, L., *Florists Rev.*, **80**: 24, June 3.
53. Roboz, E., IV Congr. Intern. Tech. Chem. Ind. Agr., Bruxelles, **1**, **3D**: 11 (1935).
54. Salisbury, E. I., *J. Ecology*, **13**: 149.
55. Sartorius, O. Z., *Pflanzenernähr. Düngung. u. Bodenkn.*, **14A**: 354.
56. Schultz, F., *Gartenbauwissenschaft*, **3**: 331.
57. Selle, H., *Faserforschung*, **5**: 146.

7ert. what they are & spec 133 no
how to use them 1945

58. Smith, O., and Moore, G. C., Proc. Am. Soc. Hort. Sci. (1936): 563.
59. Solberg, P., Meldinger Norges Landboucker, **14**: 88.
60. Sprague, H. B., and Burton, G. W., N. J. Agr. Exp. Sta. Bul. 630.
61. Sundling, H. L., and others, J. Am. Soc. Agron., **24**: 341.
62. Tait, G. M., and Knott, J. E., N. Y. (Cornell) Agr. Exp. Sta. Bul. 572.
63. Thornton, S. F., Better Crops with Plant Food, Feb. (1938).
64. Trenel, M., Pflanzenernahr. Dungung. u. Bodenkn., **4B**: 340, Abt., **5**: 169.
65. Vincent, V., and others, Ann. Agron. (n. s.), **4**: 793.
66. Waltman, C. S., Ky. Agr. Exp. Sta. Res. Bul. **321**: 335.
67. Weinard, F. F., Florists Rev., **73**: 18, Mar. 8; **75**: 12, Feb. 7; **79**: 36, Mar. 11.
68. Wessels, P. H., N. Y. (Cornell) Agr. Exp. Sta. Bul. 536.
69. Wherry, E. T., Am. Fern J., **7**: 110; **10**: 15, 45; **11**: 16; **16**: 1; **23**: 24. Am. Hort. Soc. Bul. (1926): 4. *Bartonia*, **8**: 33. Better Homes and Gardens, **8** (8): 37. Ecology, **1**: 42; **8**: 197. Florists Rev., **69**: 88, Mar. 3. Ind. Eng. Chem., **16**: 826. J. Forestry, 20, May. J. Wash. Acad. Sci., **6**: 672; **8**: 589; **10**: 217; **15**: 370; **17**: 35; **19**: 379. Nat. Hort. Mag. (1927), Oct. Proc. Acad. Nat. Sci. (Phila.), (1920): 84. *Rhodora*, **22**: 33. Smithsonian Rep. (1920): 247.
70. White, H. E., Mass. Agr. Exp. Sta. Bul. 315.
71. Wiggin, W. W., and Gourley, J. H., Ohio Agr. Exp. Sta. Bul. 484.
72. Wiggin, W. W., Proc. Am. Soc. Hort. Sci. (1928): 45.
73. Wildon, C. E., Florists Rev., **78**: 14, May 7; Mich. Agr. Exp. Sta. Sp. Bul. 222, 226, 228; Ext. Bul. 155; Mich. State Florists Assoc. Bul. 32, 67, 87, 88, 100, 120, 121, 123.
74. Wilson, A. L., N. Y. (Cornell) Agr. Exp. Sta. Mem. 145; Proc. Am. Soc. Hort. Sci. (1930): 524.
75. Withrow, R. B., and Biebel, J. P., Florists Rev., **80**: 16, Aug. 5.
76. Zimmerly, H. H., Va. Truck Exp. Sta. Bul. **57**: 501; **73**: 863.
77. Zimmerman, P. W., and others, Proc. Am. Soc. Hort. Sci. **27**: 449; Florists Rev., **67**: 27, Jan. 8.

BOOKS CONTAINING LISTS OF PLANT pH PREFERENCES

1. "Commercial Flower Forcing", Laurie, A., and Poesch, G. H., P. Blakiston's Son and Co., Inc., p. 155-162 (1939).
2. "Garden Dictionary", Houghton Mifflin Co., pp. 6, 455 (1936).
3. "Garden Encyclopedia", W. H. Wise and Co., pp. 8, 22 (1936).
4. "Soil Science", Weir, W. W., J. B. Lippincott Co., p. 285-291 (1936).

ACKNOWLEDGMENT

Credit is due to Dr. E. A. Bessey, Dr. H. T. Darlington, and Associate Professor C. E. Wildon for assistance with plant botanical names, and to Mr. Myron Seeder for aid in gathering and classifying the data.