

DISEASE RESISTANT APPLES

Disease Resistant Apple Varieties – Over 1325 apple varieties listed for apple scab, powdery mildew and fireblight disease resistance.

Nature, in its infinite wisdom has developed disease resistant fruit. Humans have begun to make crosses to develop disease resistant apples. It is wise to plant disease-resistant cultivars of fruit or nut species. This is especially valid for home orchardists, where the close proximity of many plants may aid in the spread of disease. Add this to the toxicity of sprays around your home; it is wise to select disease resistant plants.

HOW SCAB-RESISTANT APPLES WERE DEVELOPED

The origin of human crossed scab-resistant apples dates from 1907 when Charles S. Crandall started an apple-breeding program at the University of Illinois. He wanted to explore the potential of various species of *Malus* as breeding material. He collected many crabapple-like species and crossed them with commercial apples. Crandall never released any cultivars; in fact, he wasn't even looking for scab-resistant apples. In 1943, Fred Hugh, who was evaluating Crandall's work, came upon an interesting phenomenon. An unusually cold, wet spring resulted in a severe scab epidemic that defoliated many unsprayed trees in Crandall's collection. But some of Crandall's trees were scab free. Hugh found that the scab free trees, along with an equal number of scabby seedlings, came from a cross between one particular selection of an ornamental crabapple (*Malus floribunda*) and Rome Beauty. The proportion—half scabby seedlings and half scab-free seedlings—suggested a single scab-resistant gene was present.

Since then, breeders have repeatedly crossed scab-resistant apples with commercial cultivars - an approach known as backcrossing - to produce high quality, resistant apples. At the same time, breeders continued to select for tolerance for and resistance to the other apple diseases.

In 1948, a cooperative apple breeding program among Purdue University, Rutgers University and University of Illinois. Over the next 47 years, researchers have made over 3,500 crosses, evaluation over 400,000 seedlings and selected 2,200 scab-resistant apples. The New York Agricultural Experiment Station at Geneva New York developed an independent program, as did breeders worldwide. More than 53 scab-resistant varieties from eight countries, including ten from the U.S., have been released

Some 90 resistant cultivars have been released carrying one scab resistance gene from *M. floribunda* or *M. floribunda* '821' (Vf). Today, several scab resistant genes have been identified. Vf-resistance gene from *Malus floribunda* (Crandall's work), Vm from *M. micromalus*, Vr from *M. pumila* 'R 12 740 7A,' and Va from 'Antonovka.' Most scab resistant apple varieties contain the Vf gene and some are losing resistance and becoming scab infected. Apple breeders are now incorporating more than one scab resistant gene in their breeding programs. These resistant varieties are termed digenic or polygenic.

MAJOR APPLE DISEASE

APPLE SCAB (*Venturia inaequalis*): Is a fungus, which thrives in moist climates, causing damage to, leaves, shoots and fruits. It is worse on poorly drained soils or where excessive nitrogen has been used. The spores live on fallen leaves and have sexual reproduction during the winter. Therefore, all leaves should be removed from the home orchard. Winter sprays do not control apple scab.

APPLE POWDERY MILDEW (*Podosphaera leucotricha*): Is a fungus preferring warm, dry conditions and causes significant damage to leaves and shoots. It will also cause russetting on fruit. It is worse where soils are low in organic matter or nutrients.

FIREBLIGHT (*Erwinia galligena*): A bacterium that causes dieback of shoots and branches, and can kill trees rapidly. Rare in the Willamette Valley of Oregon, but may appear during a hot summer.

The following chart lists known apple cultivars, which show resistance to one or more of the major diseases. Abbreviations used are:

r = resistant
vr = very resistant
s = susceptible
vs = very susceptible

CULTIVAR	SCAB	MILDEW	FIREBLIGHT
'Acadian Queen'	r	r	r
'Ace Spur Delicious'		vr	vr
'Acey Mac'	s	vr	vr
'Acklam Russet'	r	-	-
'Acme'	r	-	-

'Adam'			vr
'Adams' (Crab)	r	-	vr
'Adams Apple'	r	-	-
'Adams' Pearmain'	r	vr	vr
'Adanac'	-	-	r
'Adirondack' (Crab)	vr	vr	vr
'Ahra'	r	-	-
'Ahrista'	r	-	-
'Aivania'	-	-	r
'Akane'	r	r	r
'Akibae'	s	r	-
'Alameda'	-	-	vr
'Alba'	-	-	vr
'Alexander'	r	s	s
'Alexis' (Crab)	-	r	r
'Alfriston'	r	r	-
'Alka'	r	-	-
'Alkmene'	r	-	vr
'All Doer' (Cider)	r	-	-
'Allington Pippin'	r	-	-
'Allington Pippin Sport'	r	-	-
'Almey'	-	-	r (blossom)
'Alnarp'	r	-	-
'Alpha 68A'	-	-	r
'Alpha 68B'	-	-	vr
'Amasya #3'	-	-	r
'Amberina' (Crab)	r	-	-
'Ambrosia'	r	r	r
'Amelia'	-	-	r (blossom)
'American Golden Russet'	r	-	-
'Amri'	-	-	vr
'Amur Naliv'	-	-	r
'Ancuta'	r	-	-
'Anderson Red Delicious'	-	vr	vr
'Anism'	-	-	vr
'Angold'	r (slightly)	-	s
'Ann Trio'	-	-	vr
'Annie Elizabeth'	r	r	-
'Anoka'	-	-	r
'Antonovka Monasir'	-	-	vr
'Apelsinoe'	r	-	-
'Ard Cairn Russet'	r	-	-
'Ariane'®	r	r	r

'Ariwa'	r	-	-
'Arkansas'	r	r	-
'Arkansas Black'	r	r	r
'Arkansas Black Twig'	r	r	r
'Arlet'	-	-	r
'Aroma'	r	-	-
'Aromat de Vara'	r	-	-
'Aromatic Russet'	r	s	s
'Arrow'	-	-	vr
'Arthur Turner'	r	r	-
'Ashmead's Kernel'	r	-	-
'Ashton Bitter' (Cider)	vr	-	-
'Atwood Spur'	-	vr	vr
'Aurantiaca'	-	-	vr
'Auriu de Bistrita'	r	-	-
'Aurora'	-	-	r
'Autumn Arctic'	r	-	-
'Autumn Gala'™	r	-	r
'Autumn Glory' (Crab)	r	-	-
'Autumn Gold'®	r	-	r
'Auvin Early Fuji'	r	s	s
'Babine'			r (blossom)
<i>baccata</i> 'Jackii' (Crab)	r	r	vr
<i>baccata</i> 'Walters' (Crab)	r	-	-
'Baldwin'	-	vs	vr
'Baker's Delicious'	r	r	-
'Ballinora Pippin'	r	-	-
'Balsgård'	r	-	-
'Barbara Ann'	-	-	vr
'Bardsey Island'	r	-	-
'Barnack Beauty'	r	-	-
'Barnack Beauty Sport'	r	-	-
'Baskatong' (Crab)	r	vr	vr
'Baujade' ('Granny Smith' type)	r	-	-
'Baukro'	r	-	-
'Beacon'	r	r	r
'Beauty'	-	-	r
'Beauty of Bath'	vr	-	-
'Beden' (Cider)	r	r	r
'Bedford' (Crab)	-	-	vr
'Bedford Red'	-	-	r
'Bedwyn Beauty'	r	-	-

'Beef Apple'	r	-	-
'Belgolden No 17'	r	vr	vr
'Belle de Boskoop'	r	-	vr
'Bellefleur de Brabant Rouge'	-	-	r (blossom)
'Bellefleur Rekord'	-	-	r
'Belmac'	r	r (slightly)	-
'Belrene'	r	-	-
'Bemali'	-	-	vr
'Ben Davis'	s	s	r
'Ben Trio'	-	-	vr
'Beni Shogun'	r	vs	vs
'Ben's Red'	vr	-	-
'Beverly' (Crab)	vr	vr	r (blossom)
'Bietigheimer'	-	-	vr
'Billie Bound'	r	-	-
'Billy Down Pippin' (Cider)	r	-	-
'Biogolden'	vr	r (slightly)	r (slightly)
'Bisbee Red Delicious'	-	r	r (blossom)
'Black Ben Davis'	-	-	r
'Black Dabinett' (Cider)	r	-	-
'Black Limbertwig'	-	r	r
'Black McIntosh'	-	r	r
'Black Mickey'	-	r	r
'Black Tom Putt'	r	-	-
'Black Twig'	r	-	-
'Backmac'	-	r	r
'Blahova Oranzova Renetor'	-	-	r
'Blairmont'	-	-	r
'Blaxtayman'	s	r	r
'Bll'	-	-	r
'Blenheim Orange'	-	r	-
'Blue Pearmain'	-	-	vr
'Blue Sweet' (Cider)	r	-	-
'Blushing Golden'	r	r	r
'Bob White' (Crab)	r	-	vr
'Bogo Belle de Boskoop'	-	-	vr
'Bohemia™'	r	-	-
'Boiken'	r	-	-
'Bonnie Best'	-	r	r
'Bonza'	r	-	-
'Boskoop Rouge'	-	-	vr
'Bouteille'	-	-	vr
'Bouteille de Liseux'	-	-	vr

'Bountiful'	-	vr	-
'Bovey'	r	r	r
'Bowden Seedling'	-	-	vr
'Bracteata'	-	-	vr
'Braeburn'	-	r	-
'Bramley's Seedling'	r	r	-
'Bramley'	-	-	vr
'Brandywine' (Crab)	-	vr	vr
'Breakey'	-	-	r
'Breakwell's Seedling' (Cider)	r	-	-
'Bridgwater Pippin'	r	-	-
'Brina'	r	-	-
'Bringewood Pippin'	r	-	-
'Britegold'	vr	r	r
'Britemac'	-	-	vr
'Brookland'	-	-	r
'Brown Crofton'	r	-	-
'Brown Russet'	r	r	-
'Brown Snout' (Cider)	vr	s	s
'Brown Thorn' (Cider)	vr	-	-
'Brownlee's Russet'	r	r	-
'Brown's Apple'	r	-	-
'Broxwood Foxwhelp' (Cider)	r	-	-
'Buckeye Gala'®	r	-	r
'Buckingham'	r	r	-
'Buckley Giant'	vr	r	-
'Bulmer's Norman'		r	r
'Burn's Seedling'	r	-	-
'Burrowhill Early' (Cider)	vr	-	-
'Butterball'	-	-	vr
'C. P. Close'	-	-	r
'Callaway' (Crab)	r	-	-
'Calva'	-	-	vr
'Calocarpa'	-	-	vr
'Calville Blanc d'Hiver'	r	vs	vs
'Cap of Liberty' (Cider)	vr	-	-
'Captain Broad' (Cider)	vr	-	-
'Carnifex'	-	-	vr
'Camelot'	r	-	-
'Camuzat'	-	-	vr
'Candied Apple' (Crab)	r	vr	vr
'Cappy'	-	-	r (blossom)

'Captain Kidd'	r	vr	
'Caravel'	-	vr	vr
'Carmine Crab'	-	-	r (blossom)
'Carroll'	-	-	r
'Carter's Pearmain'	r	-	-
'Casa Nova de Alco Baca-9'	-	-	vr
'Cascade'	-	-	vr
'Case Wealthy'	r	s	s
'Catarina'	r	-	-
'Catshead'	r	-	-
'Celia'	-	r	-
'Centennial'	-	-	vr
'Centurion' (Crab)	r	vr	vr
'Charles Ross'	r	-	-
'Chaxhill Red'	r	-	-
'Cheal's Golden Gem'	-	-	vr
'Cheddar Cross'	vr	vs	vs
'Chehalis'	vr	vs	r
'Chelan Red'	-	r	r
'Chestnut' (Crab)	-	-	r
'Chick-A-Dee McIntosh'	s	r	r
'Chieftain'	r	-	r
'Chistotel'	vr	-	-
'Chorister Boy'	r	-	-
'Christmas Pearmain'	r	-	-
'Choupette'	r	-	-
'C'Huero Biz Bras'	-	-	vr
'Chulanka'	-	-	vr
'Cider Lady's Finger'	r	-	-
'Circassian Apple'	-	-	vr
'Classic Red Delicious'	-	r	r
'Claudius Herbstapfel'	-	-	r
'Claygate Pearmain'	r	-	-
'Clear Gold'	-	-	vr
'Cockle's Pippin'	r	r	-
'Coe's Golden Drop'	r	-	-
'Colapuis'	r	r	-
'Cole'	-	-	vr
'Coleman's Seedling' (Cider)	r	-	-
'Collogget Pippin'	r	-	-
'Colonel Vaughan'	r	-	-
'Colozette'	-	-	vr
'Columbia Crab'	-	-	r

'Conkle Jonathan'	r	s	s
'Connell Red'	-	-	r
'Coop 22'	r	-	-
'Coralburst'	r	-	vr
'Cornish Aromatic'	vr	-	-
'Cornish Gilliflower'	r	-	-
'Cornish Honeypin'	r	-	-
'Cornish Longstem'	r	-	-
'Cornish Pine'	r	-	-
'Cornwall McIntosh 2-2-2-4 '	-	-	r
'Corodel'	-	-	r
'Court of Wick'	r	-	-
'Court Royal' (Cider)	r	-	-
'Cortland'	-	-	r
'Court-Pedu Plat'	r	-	-
'Court Pendu'	-	-	r
'Court Royal'	r	-	-
'Courtgold'	r	r	r
'Cox's Orange Pippin'	-	-	vr
'Cox's Orange Pippin Spur Type'	r	-	-
'Cowichan'	-	-	r
'Cranberry'	-	-	r
'Crandall'	-	-	vr
'Crawley Beauty'	r	-	-
'Crawley Reinette'	-	-	vr
'Creamy Kitaika'	-	-	vr
'Crimson Beauty'	r	-	-
'Crimson Beauty of Bath'	r	-	-
'Crimson Beauty of Bath (LARS)	r	-	-
'CrimsonCrisp' (Co-op 39)	vr	s	r
'Crimson King'	r	-	-
'Crimson Newtown Wonder'	r	-	-
'Crimson Victoria' (Cider)	r	-	-
'Crispin' ('Mutsu')	s	r	-
'Crown Empire' TM	r	-	r
'Dabinett'	r	-	vr
'Dakota Gold'	-	-	r
'Dalinco'	r	-	-
'Dandee Red' TM	-	r	r
'D'Arcy Spice'	r	r	vr
(blossoms resistant to frost)			
'Dark Red Staymared'	s	r	r

'Dasyealyx'	-	-	vr
'Dauphin'	-	-	r
'Daux Belan'	-	-	vr
'Davey'	r	-	-
'David' (Crab)	r	r	vr
'Dawe No. 1 Cider'	r	-	-
'Dawe No. 2 Cider'	r	-	-
'Dayton'	r	r	r
'De Boutteville' (Cider)	r	-	-
'De Jaune'	-	-	r
'Decio'	r	-	-
'Del Cirio'	-	-	vr
'Delbard'	r	vr	vr
'Delcon'	-	r	vr
'Delia'	r	-	-
'Delicious'	-	r	r
'Delight'	-	-	r
'Delikates'	-	-	r
'Dermen Delicious' 4X (tetraploid)-	r	-	r
'Dermen McIntosh'	-	vr	vr
'Dermen Stayman 3-6-6'	-	-	vr
'Dermen Winesap 2-4-4'	-	vr	vr
'Detroit Red'	-	vr	vr
'Devon Crimson Queen'	r	-	-
'Devonshire Quarrenden'	r	-	-
'Devonshire Red'	r	-	-
'Discovery'	r	vr	-
'Discovery Spur Type'	r	-	-
'Dolgo Crab'	r	vr	r
'Dolores'	vr	s	r (slightly)
'Donald Wyman' (Crab)	r	vr	vr
'Don's Delight'	r	-	-
'Dorothea'	-	-	r (blossom)
'Double Red McIntosh'	-	vr	vr
'Double Red Stayman'	-	vr	vr
'Doubloons' (Crab)	r	-	vr
'Doucet Rouge'	-	-	r (blossom)
'Doud Golden Delicious'	r	vr	vr
'Douglas Wormless'	r	-	-
'Dove' (Cider)	r	-	-
'Drakenstein'	-	-	vr
'Dredge's Fame'	r	-	-
'Drello di Forh'	r	-	-

'Duchess of Oldenburg'	r	r	r
'Dudley'	r	-	-
'Dufflin' (Cider)	r	-	-
'Dugamel'	-	vr	vr
'Duke of Devonshire'	vr	-	-
'Dulcina'	-	-	vr
'Dülmener Rosenapfel'	vr	r	-
'Dunkerton Late Sweet'	r	-	-
'Durit'	vr	r (slightly)	r (slightly)
'Duquesa'	r	-	-
'Dutch Codlin'	r	-	-
'Earlibrite'	-	vr	vr
'Earlichief'	-	vr	vr
'Earlidel'	-	vr	-
'Earlijon'	vr	-	-
'Earlistripe'	-	vr	vr
'Early Banta'	-	-	vr
'Early Blenheim'	r	-	-
'Early Free Gold'	r	r	-
'Early Fuji'	r	-	-
'Early McIntosh'	-	vr	-
'Early Rome Spur'	r	-	-
'Early Thompson'	r	r	-
'Early Victoria'	r	-	-
'Easter Orange'	r	-	-
'Esklinville Seedling'	r	-	-
'Ecolette'	r	-	-
'Ed Gould Golden'	r	vr	vr
'Edelborsdorfer'	-	-	vr
'Eden'™	r	r	r
'Edward VII'	r	r	-
'Egremont Russet'	vr	r	-
'Egri Piros'	-	-	vr
'Eight Square' ('Kill Apple')	r	-	-
'Ein Shemer'	r	-	-
'Eir'	r	r	-
'Elbee'	r	vr	vr
'Eleyi'	-	-	r
'Elise Rathke'	-	-	r
'Elisa Ratkee'	-	-	vr
'Elliot Spur'	r	vr	vr
'Ellis Bitter' (Cider)	vr	-	-

'Ellison's Orange'	r	s	-
'Elstar'	r	-	-
'Elton Beauty'	-	r (others s)	-
'Emilia'	-	-	vr
'Emneth Early'	r	-	-
('Early Victoria')			
'Empire'	-	s	r
'Empress Spur Golden Delicious'	r	vr	vr
'Encore'	r	-	-
'English Codling'	r	-	-
'Enterprise'	vr	r	r
'Ermak'	-	-	vr
'Euzia'	-	-	vr
'Evereste™' (Crab)	r	r	r
'Ervin'	-	vr	vr
'Evarts Red'	-	vr	vr
'Evelyn' (Crab)	-	vr	vr
'Exeter'	-	-	vr
'Exeter Cross'	r	-	-
'Fair Maid of Devon'	r	-	-
'Fairfield'	r	-	-
'Fall Russet'	r	-	vr
'Fameuse' ('Snow Apple')	s	r	vr
'Farmer's Glory'	vr	-	-
'Feys Record'	-	-	vr
'Filippa'	r	-	-
'Fillbarrel' (Cider)	vr	-	-
'Firmgold'	-	vr	-
'Fisher Fortune'	r	-	-
'Flame'	-	-	vr
'Flexilis'	-	-	vr
'Floribunda Crab'	r	vr	-
'Florina'	r	-	-
'Florina' ('Forina Querina')	vr	s	-
'Forina Querina' ('Florina')	vr	s	-
'Forge'	vr	-	-
'Fortune' (UK origin)	r	r	-
('Laxton's Fortune')			
'Franklyn's Golden Pippin'	r	-	-
'Frazier's Spur'	r	vr	vr
'Fred Hough'	r	-	-
'Free Red Star'	r	r	-

'Freedom'	vr	r	r
'Freeman Hybrid'	-		vr
'French Crab'	r	-	-
'Frettingham Victoria'	-	-	vr
'Friki'	r	-	-
'Fringe Petal Crab'	-	-	vr
'Fromme Scab Resistant'	r	-	-
'Fructo-flavo'	-	-	vr
'Fruitland Delicious'	-	-	r
'Frumos de Voinesti'	r	-	-
'Fuji'	r	s	s
'Fuji-Spike'	r	s	s
'Gala'	r	r	s
'Galarina'	r	-	-
'Gardner'	-	vr	vr
'Garland'	-	-	r
'Garry'	-	-	r
'Gavin'	r	r	-
'Generos'	vr	-	-
'Genet Moyle'	r	-	-
'Geneva Crab' ('Geneva Red')	r	-	-
'Geneva Early'	r	r	r
'Geneva Ontario'	-	-	vr
'George Neal'	vr	-	-
'Gerlinde'	r	-	-
'Gibbon's Russet'	r	-	-
'Gilliflower'	-	-	vr
'Gilliflower of Gloucester'	r	-	-
'Gipsy King'	r	-	-
'Glabrata'	-	-	vr
'Gladstone'	r	-	r
'Glancescens'	-	-	vr
'Glass Apple'	r	-	-
'Gloriosa'	-	-	r
'Gold Spur'	r	vr	vr
'Gold Star'	r	r	r
'Goldjon Carlone' (No. 35F)			vr
'Golden Auvilspur'	r	vr	vr
'Golden Bittersweet' (Cider)	vr	-	-
'Golden Delicious'	s (others r)	r	vr
'Golden Delicious' (4E-26-18-N)	r	vr	vr
'Golden Delicious' (LARS)	r	vr	vr

'Golden Delicious Gibson Strain'	r	vr	vr
'Golden Delicious Russet Form'	r	vr	vr
'Golden Delicious, Horst No 2'	r	vr	vr
'Golden Galaxy' (Crab)	r	-	-
'Golden Gem'	-	-	r (blossom)
'Golden Glory'	r	vr	vr
'Golden Harvey'	vr	-	-
'Golden Hornet' (Cider, Crab)	r	r	r
'Golden Knob'	r	-	-
'Golden Morspur'	r	vr	vr
'Golden Noble'	r	r	-
'Golden Nugget'	r	r	s
'Golden Orange'	r	-	-
'Golden Pippin'	r	-	-
'Golden Precoce'	-	-	r
'Golden Raindrops' (Crab)	r	-	-
'Golden Reinette'	r	-	-
'Golden Russet'	r	r	-
'Golden Spires'	-	-	r
'Goldenir'	r	vr	vr
'Goldensheen'	r	vr	vr
'Goldenspur'	r	vr	vr
'GoldRush'™	vr	r (slightly)	r
'Goldsmith'	-	-	vr
'Goldstar'	vr	r (slightly)	s
'Goodland'	-	-	r
'Goring' (Cider)	vr	-	-
'Graine'	r	-	-
'Granerly'	-	-	vr
'Graniwinkle'	r	r	-
'Granny Smith'	-	vs	r
'Gravenstein'	s	-	r
'Greasy Pippin'	r	-	-
'Green Chisel'	r	-	-
'Green Peak McIntosh' 2-2-4-4	-	-	r
'Greenmeadows Cox's Orange Pippin' No.1163	-	-	vr
'Greensleeves'	r	-	-
'Greensweet'	-	-	vr
'Green Star'®	r	-	-
'Grenadier'	r	r	-
'Grimes Golden'	-	r	vr
'Gros Fenouillet'	r	-	-

'Grove'	-	-	vr
'Gwendolyn'	-	-	r (blossom)
'Hadlock Reinette'	r	-	r
'Hall's Park'	r	-	-
'Halton Barton'	r	-	-
'Halstow Natural' (Cider)	vr	-	-
'Hampshire'	r	r	vr
'Hangy Down'	r	-	-
'Hanners'	-	vr	vr
'Hansen's #1'	-	-	vr
'Hansen's #2'	-	-	vr
'Hansen's #3'	-	-	vr
'Haralred'	-	r	r
'Haralson'	-	r	vr
'Harberts Reinette'	-	vr	vr
'Hardy Cumberland'	-	r	r
'Harcourt'	-	-	r
'Harmonie®'	r	-	-
'Harrold Red'	-	vr	vr
'Harenmac'	-	-	r
'Harvest Gold' (Crab)	r	-	-
'Hawaii'	-	-	r
'Hawkeye'	-	-	r
'Hazen'	-	r	vr
'Hedwigiae'	-	-	r
'Heimenhofer'	-	-	r
'Henning'	-	-	vr
'Henrietta Crosby'	-	-	vr
'Henry F. Dupont'	-	-	vr
'Henry Kohankie' (Crab)	r	vr	vr
'Herefordshire Pippin'	r		
'Herma'			r
'Herring's Pippin'	r		
'Heubner'	-	vr	vr
'Heusgen's Golden Reinette'	r	r	-
'Heyer #2'	-	-	vr
'Heyer 6' (Crab)	-	-	r
'Heyer 12'	-	-	r
'Hi-Early'	-	vr	vr
'Hibernal'	-	-	r
'Hillieri' (Crab)	r	r	vr
'Hoary Morning'	r	-	-

'Hocking's Green'	r	-	-
'Holiday'	-	-	vr
'Holland'	-	-	vr
'Hollow Core'	r	-	-
'Holly'	-	vr	-
'Holstein'	vr	s	s
'Holstein Dr Schultz'	r	-	-
'Holstein Griemann I'	r	-	-
'Holstein Griemann II'	r	-	-
'Holstein Mahler'	r	-	-
'Holstein Palloks'	r	-	-
'Holstein Sport, NFT'	r	-	-
'Holstein Steinhause'	r	-	-
'Honey Sweet'	r	-	-
'Honeycrisp'	r	-	r
'Honeygold'	-	r	-
'Honora'	-	-	r
'Hoople's Antique Gold'	r	vr	vr
'Horsham Russet'	r	-	-
'Houser Red'	-	vr	vr
'Hoser'	-	-	r
'Howgate Wonder'	-	r	-
'Hubbardston Nonsuch'	r	-	-
'Hudson's Golden Gem'	vr	r	vr
'Huidobro'	-	-	vr
'Hunter Melba' 4X (tetraploid)	-	-	r
'Hunter Spartan 2-4-4'	r	vr	vr
'Hunter Ottawa' 244 4X (tetraploid)	-	-	r (blossom)
'Hybrid 142'	r	r (and San Jose scale)	-
'Hybride aus Mlejewo'	-	-	vr
'Idaho Delicious'	-	vr	vr
'Idared'	r	s	s
'Idunn'	r	r	-
'Imperial Stayman'	-	-	vr
'Improved Lambrook Pippin'	r	-	-
'Improved Redstreak' (Cider)	r	-	-
'Imuna'	vr	-	-
'Indian Magic' (Crab)	r	vr	vr
'Indian Summer' (Crab)	r	vr	vr
'Ingrid Marie'	r	r	-
'Ingrid Marie Spur Type'	r	-	-

'Initial'	r	-	-
'Inuringo'	-	-	vr
'Irene'	-	-	vr
'Isle of Wright Pippin'	r	vr	
'It Delicious'	s	vr	vr
'Jackii'	-	-	vr
'Jakob Fischer'	-	-	vr
'Jamba'	-	-	r (blossom)
'Jamba 69'	r	-	-
'James Grieve'	-	r	-
'Jay Darling'	-	-	vr
'Jefferies'	vr	-	-
'Jerseymac'	-	s	r
'Jester'	-	vr	-
'Jewel'	-	-	vr
'Jewelberry' (Crab)	vr	vr	vr
'Joan' (Crab)	-	vr	vr
'Joe Trio'	-	-	r
'John Standish'	r	r	r
'Johnny Andrews'	r	-	-
'Johnny Voun'	r	-	-
'Johnson McIntosh 2-4-4-4'	-	vr	vr
'Jolana'	vr	-	-
'Jonadel'	-	vr	vr
'Jonafree'	vr	vs others r	vr
'Jonager'	-	r	-
'Jonagrimes'	r	-	-
'Jonalicious'	-	-	vr
'Jonamac'	-	s	r
'Jonathan'	vr	r others vs	s
'Jones Favorite'	-	-	vr
'Jonsib Crab'	-	-	vr
'Jordan Russet'	r	-	-
'Jubilee Fuji'	-	r	-
'Juliana'	r	vr	vr
'Judaine'	vr	-	-
'Judeline'	vr	-	r
'Judor'	r	-	-
'Julia'	r	r	r
'Juliana'	r	-	-
'Juliet'	-	-	vr
'July Delicious'	-	-	vr

'July Tart'	r	-	r
'Julyred'	-	-	r
'Juniper'	r	-	-
'Jupp's Russet'	r	-	-
'Jurella'	r	-	-
'Kandil Sinap'	-	-	vr
'Kanki'	-	r	-
'Karastojanka'	-	-	vr
'Karmine'	vr	r	r (slightly)
'Katja' ('Katy')	vr	r	-
'Keed's Cottage'	r	r	r
'Keegan's Crab'	r	-	vr
'Keepsake'	r	-	r
'Kelly's Seedling'	r	-	-
'Kelsey'	-	-	vr
'Keep' ('May Bloom')	r	-	-
'Kendall'	-	-	r
'Kensib'	-	-	r
'Kent'	-	r	-
'Kerr'	-	-	vr
'Kerry Pippin'	r	r	-
'Kestrel'	vr	-	-
'Keswick Codling'	r	-	-
'Kidd's Orange Red'	r	r	vr
'Killerton Sweet' (Cider)	r	-	-
'King' ('Tompkins King')	vr	-	-
'King Arthur' (Crab)	r	-	-
'King David'	-	-	vr
'Kim'	r	-	-
'Kimball McIntosh'	s	vr	vr
'King Charles Pearmain'	r	-	-
'King David'	-	-	vr
'King of Pippins'	r	-	-
'King of Tompkin's County'	r	-	-
'King Red Jonathan'	vr	vr	-
'King Russet'	r	-	-
'Kingsmere'	-	-	r (blossom)
'Kingston Bitter' (Cider)	r	-	-
'Kinnard's Choice'	-	r	vr
'Kim'	r	r	-
'Kirton Fair'	r	-	-
'Kit Trio'	r	r	r

'Kitanosachi'	-	-	vr
'Klaira'	r	r (slightly)	r (slightly)
'Klehmi'	-	-	r
'Knobbed (Knobby) Russet'	r	s	s
'Kobendza'	-	-	vr
'Kogetsu'	-	-	vr
'Kokko Strain 2'	-	-	r
'Kola'	-	-	r
'Komlensk'	-	-	vr
'Korea Wild Apple'	-	-	r (blossom)
'Kouleman'	-	-	vr
'Kovauguszt'	-	r	-
'Kovelit'	-	r	-
'La Paix'	r	-	-
'Lady Henniker'	r	-	-
'Lady Ilgen'	-	-	vr
'Lady Sudeley'	r	-	-
'Lady Williams'	vr	-	-
'Legace'	r	-	-
'Lagrée'	-	vr	-
'Lakeland'	-	-	r
'Lake's Kernel'	-	vr	vr
'Lalla Red Delicious'	-	-	vr
'Lamb Abbey Pearmain'	-	-	vr
'Lambrook Pippin'	-	-	vr
'Lancelot' (Crab)	r	-	-
'Lanes Prince Albert'	r	vr	-
'Langworthy'	r	-	vr
'Laxton's Fortune'	r	-	vr
'Laxton's Superb'	-	r	-
'Leathercoat Russet'	r	-	-
'Lemoen'	-	-	vr
'Lemon Pippin'	r	-	-
'Levering Limbertwig'	vr	vr	vr
'Lewis Incomparable'	-	-	vr
'Liberty'	vr	r	vr
'Ligol'	vr	vr	-
'Limberland'	vr	-	-
'LindaMac'	s	vr	vr
'Liset' (Crab)	r	r	r (blossom)
'Litevsky Jadernac'	-	-	r (blossom)
'Livadiyskoye'	-	-	r (blossom)

'Lodel'	vr	r	-
'Lodi'	r	vs	vs
'Lombart's Calville'	r	s	-
'London Pippin'	vr	-	-
'Longkeeper'	r	-	-
'Longstem' (Cider)	r	-	-
'Longney Russet'	r	-	-
'Loop Giant Spy'	-	-	vr
'Loop Red Spy'	-	-	vr
'Loop Wealthy 2-4-4-4'	r	-	vr
'Lord Derby '	r	s	r
'Lord Derby Spur'	r	-	-
'Lord Hindlip'	r	-	-
'Lord Lindlip'	r	-	-
'Lord Lambourne'	r	r	-
'Lord Nelson'	r	r	r
'Louisa' (Crab)	r	-	-
'Lowland Raspberry'	r	r	r
'Lucombe's Pine'	r	-	-
'Luke'	-		r
'Lucky Jon'	vr	s	s
'Lucky Rose'	-	-	r
'Lucombe's Pine'	vr	-	-
'Lucombe's Seedling'	r	-	-
'Lurared'	-	-	vr
'Lutz'	r	vr	vr
'Lysgold'	r	vr	vr
'M.7'	-	-	r
'MM.111'	-	-	r
'Mabbott's Pearmain'	vr	r	r
'Macfree'	vr	vr	vr
'McIntosh'	s	r	-
'MacExcel' (Columnar)	r	r	r
'Macoun'	-	s	vr
'Macrocarpa'	-	-	r (blossom)
'MacSpur'	-	vr	vr
'Madonna' (Crab)	r	-	-
'Maiden Blush'	-	-	vr (others vs)
'Major' (Cider)	r	-	-
'Makamik'	-	-	r (blossom)
<i>Malus floribunda</i> (Crab)	vr	vr	vr
'Manche Rouge'	-	-	vr

'Manchu'	-	-	r (blossom)
'Mandan'	-	r	r
'Mandshurica 6114'	-	-	r
'Manchurian'	-	-	r
'Manito'	-	-	r (blossom)
'Margil'	r	-	-
'Marshall McIntosh'	s	vr	vr
'Marstar'	s	vr	vr
'Marston Scarlet'	r	-	-
'Martha'	-	-	r
'Mary Potter' (Crab)	r	-	vr
'Masek'	-	-	r (blossom)
'May Beauty'	vr	-	-
'May Bloom'	r	-	-
'May Sweet'	r	-	-
'Max Trio'	-	-	vr
'May Queen'	vr	-	-
'McIntosh'	s	vr	vr
'McIntosh, Roger'	r	-	-
'McIntosh Summerland Red'	-	-	r
'McLean'	-	-	r
'Macexcel' (Columnar)	r	r	-
'Macshay' ('McShay')	vr	vr	-
'Médaille d'Or' (Cider)	r	-	-
'Megumi'	-	-	vr
'Melba'	r	-	-
'Melfree'	r	r	-
'Melodie'	vr	s	r (slightly)
'Melred'	-	-	r
'Melrose'	s	s	vr
'Mére de Ménage'	r	-	-
'Merlijn'	r	r	-
'Merrigold'	r	vr	vr
'Merton 778'	-	-	vr
'Merton 793'	-	-	r
'Merton Charm'	-	r	-
'Merton Russet'	r	vr	-
'Merton Wonder'	r	r	r
'Merton Worcester'	-	-	vr
'Metais'	-	-	vr
'Michelin' (Cider)	vr	-	-
'Middle Green'	-	vr	vr
'Mill End'	-	-	vr

'Miller Sturdyspur'	-	vr	vr
'Miller's Seedling'	r	-	-
'Milton'	-	-	vr
'Minjon'	-	vr	vr
'Mleevskaya Crasavitsa'	-	-	r
'Mr. Prothero'	-	-	vr
'Mobs Royal'	r	r	-
'Moira'	vr	s	s
'Mollies Delicious'	-	-	r
'Molten Lava' (Crab)	r	-	-
'Monarch'	vr	-	-
'Morden 359'	-	-	r
'Morgan Sweet'	r	-	-
'Morris's Russet'	r	-	-
'Morspur'	r	vr	vr
'Morspur McIntosh'	s	vr	vr
'Mother'	vr	s	s
'Murray'	vr	r	vr
'Muscadet de Dieppe'	-	-	r
'Mutsu' ('Crispin')	-	s	r
'Myra Red Fuji'	r	vr	vr
'Nanna'	r	r	-
'Nanot'	-	-	r
'Nehou' (Cider)	r	r	r
'Nela' (summer cultivars)	vr	s	r
'Nero'	r	-	-
'Nertchinsk'	-	-	r (blossom)
'Neverblight'	-	-	vr
'Nevis'	-	-	r
'Newgold'	-	vr	
'Newtown Wonder'	r	s	-
'Niagara'	-	r	-
'Niewland'	-	-	vr
'Nine Square'	r	-	-
'Nittany'	-	r	-
'No Pip'	vr	-	-
'Nonette Bastrd'	r	-	-
'Nonpareil'	r	-	-
'Norfolk Beauty'	r	r	-
'Norfolk Royal'	r	r	-
'Norfolk Royal Russet'	r	-	-
'Norhey'	-	-	r

'Norson'	-	-	r
'Northcott Superb'	vr	-	-
'Northfield Beauty'	vr	-	-
'Northwest Greening'	-	-	r
'Northwood'	r	-	-
'Notaire'	-	-	r
'Nova'	-	-	vr
'Nova Easygro'	vr	vr	r
'Novamac'	vr	r	r
'NovaSpy'	vr	r	vr
'Novole'	-	-	vr
'Novosibirski Sweet'	-	-	r
'Nugget'	-	-	vr
'Nured Jonathan'	r	s	s
'Nured Spur Delicious''	-	vr	vr
'Nured Winesap'	-	vr	vr
'Nyari Zamatos'	-	r	-
'Oaken Pin'	r	-	-
'Oberrieder Glanzreinette'	r	-	-
'Oekonomierat Echter-meyer'	-	-	vr
'Okanoma'	-	vr	vr
'Old Pearmain'	r	s	vr (others s)
'Old Somerset Russet'	r	-	-
'Oliver' ('Senator')	-	-	vr
'Oporto'	-	-	vr
'Oratia Beauty'	-	-	vr
'Oregon Spur Delicious'	-	r	r
'Oreenco'	r	-	-
'Orin'	-	-	vr
'Orlean's Reinette'	r	r	s
'Orlovim'	vr	-	-
'Orlovski Pioneer'	vr	-	-
'Ormiston Roy' (Crab)	r	r	r
'Ortley'	-	-	vr
'Osennee Desertnoe'	r	-	-
'Osman' (Crab)	-	-	r
'Oswego'	-	-	r
'Otava'	vr	s	s
'Otterson'	-	-	vr
'Oxbo'	-	-	r (blossom)
'Ozark Gold'	-	vr	vr

'Pacific Gold'	-	-	vr
'Padley's Pippin'	-	-	r
'Pagsup Spur Type'	-	vr	vr
'Paide's Winter Apple'	-	-	r
'Paignton Marigold' (Cider)	vr	-	-
'Paradis do Vayre'	-	-	vr
'Paradiso'	-	-	vr
'Paragon'	-	-	vr
'Parkman'	-	-	vr
'Paraquet'	-	-	vr
'Patricia'	-	-	vr
'Patterson'	-	-	vr
'Patul'	-	-	r
'Paulared'	r	s	s
'Payhembury'	vr	-	-
'Peachblow'	-	-	r
'Pear Apple'	r	-	-
'Peasgood Nonsuch'	r	-	-
'Peck Pleasant'	-	-	vr
'Pepin Shafrannyi'	vr	-	-
'Persicifolia'	-	-	vr
'Pervinka'	vr	-	-
'Petrel'	-	-	vr
'Pia'™	-	r	-
'Piflora'™	-	r	-
'Pig's Snout'	vr	-	-
'Pikosa'™	r	r	-
'Pilana'™	r	r	-
'Pilot'	r	-	r
'Pineapple Russet'	r	-	-
'Pineapple Russet of Devon'	r	-	-
'Pingo'™	r	r	-
'Pink Satin' (Crab)	r	-	-
'Pink Spires' (Crab)	slightly	slightly	r
'Pinova' ('Corail'™, 'Sonata'™)	r	-	r
'Pioneer'	vr (others s)	vr	vr
'Pirella'™	r	r	r
'Pirol'	r	-	-
'Piros'	r	-	-
'Pisaxa'™	r	r	-
'Pitmaston Pineapple'	r	-	-
'Pivita'™	r	-	-
'Pixie'	r	r	-

'Pixie Red Sport'	r	-	-
'Plum Vite'	vr	-	-
'Plympton Pippin'	r	-	-
'Polly Whitehair'	r	-	-
'Pomeroy'	r	-	-
'Pommier Llorca'	-	-	vr
'Ponsford'	r	-	-
'Port Allen Russet'	r	-	-
'Porter's Perfection' (Cider)	r	-	-
'Powell's Russet'	r	r	-
'President Roulin'	r		
'Prairie Fire' (Crab)	vr	vr	vr
'Prairie Rose'	-	-	r (blossom)
'Prairie Spy'	r	-	-
'Pratt's Crab Apple'	-	-	vr
'Priam'	vr	s	-
'Prima'	vr	r	vr
'Primavere'	r	-	-
'Prime Red'	r	-	-
'Primicia'	vr	-	-
'Primiera'	-	-	vr
'Prince George'	-	-	vr
'Princess' T2 (tentative name)	r	r	r
'Priscilla'	vr	r	vr
'Pristine' TM	vr	r	r
'Produkta' (autumn cultivars)	r	r (slightly)	s
'Professor Sprenger' (Crab)	vr	vr	v
'Profusion' (Crab)	r	-	r
'Pumpkin Sweet'	-	-	vr
'Puregold'	-	-	vr
'Purple Prince' (Crab)	vr	r	r
'Purple Wave'	-	-	r (blossom)
'Pyramidal'	-	-	vr
'Queen'	vr	-	-
'Queens'	r	-	-
'Quemoni'	r	vr	vr
'Quench' (Cider)	r	-	-
'Quetta Ambri' (880570)	-	-	vr
'Quinte'	-	vr (others s)	vr
'Radiant'	-	-	vr
'Rajka' TM	r	r	r

'Ralph Shay'	-	-	vr
'Ranger'	-	-	r
'Raritan'	vr	s	s
'Razor Golden Delicious'	r	vr	vr
'Realka'	vr	vr	vr
'Reanda'™	r	r	r
'Rebella'™	r	r	r
'Recolor'™	r	r	-
'Red Australian Rome Beauty'	-	-	vr
'Red Baron'	vr	r	r
'Red Baron' (Crab)	r	vr	r
'Red Beauty of Bath'	vr	-	-
'Red Belle de Boskoop'	vr	-	-
'Red Bellflower'	-	-	vr
'Red Brandy'	r	r	-
'Red Court'	-	-	r
'Red Cox's Pomona'	-	-	vr
'Red Delicious'	s	s	vr
'Red Delicious, Apex Spur'	s	r	-
'Red Delicious, Lory Spur'	s	r	-
'Red Devil'	r	-	-
'Red Duchess of Oldenburg'	r	r	r
'Red Ellison's'	vr	r	-
'Red Empire'™ (Taylor Strain)	r	-	vr
'Red Fameuse'	s	vr	vr
'Red Fortune'	r	-	-
'Red Free'	vr	s	-
'Red Fuji'	r	s	-
'Red Haralson'	-	vr	vr
'Red Hook'	r	s	s
'Red Ingrid Marie'	r	s	s
'Red Jade' (Crab)	r	-	r
'Red Jewel' (Crab)	r	-	-
'Red King'	-	vr	vr
'Red Melba'	r	s	s
'Red Newtown Wonder'	r	-	-
'Red Prince'	-	vr	vr
'Red Splendor' (Crab)	r	-	-
'Red Queen'	-	vr	vr
'Red Ruby'	vr	-	-
'Red Sentinel' (Crab)	r	vr	vr
'Red Siberian'	-	-	r (blossom)
'Red Silver'	-	-	vr

'Red Sharon'	-	-	vr
'Red Sparkle'	-	-	r
'Red Splendor'	-	-	r
'Red Spy'	-	-	vr
'Red Spur Delicious'	-	-	vr
'Red Sudeley'	r	-	-
'Red Swan' (Crab)	r	-	-
'Red Westfield'	-	-	vr
'Red Yorking'	r	-	-
'Redchief Delicious'	-	r	r
'Redfield' (said to be pest free)	vr	r	r
'Redford'	-	-	r
'Redfree'	vr	r	r
'Redhill Sops in Wine'	r	-	-
'Redkroft'	vr	r	-
'Redmax McIntosh'	s	vr	vr
'Redsleeves'	r	r	-
'Regent'	-	-	r
'Regine'	r	r	r
'Reglindis' TM	r	r	r
'Reid Seedling'	r	-	-
'Reine des Hattives'	-	-	vr
'Reineta do Caravia'	-	-	vr
'Reneta Woskowa'	-	-	vr
'Reinette Chlochard'	r	r	-
'Reinette d'Armorique'	-	-	vr
'Reinette Da Mana'	-	-	vr
'Reinette du Canada'	r	s	vs
'Reinette Grise'	-	-	r
'Reinette Grise Ancienne'	r	-	-
'Reinette Grise du Canada'	r	-	-
'Reinette Jaeghers'	-	-	vr
'Reinette Jaune de Butzel'	-	-	vr
'Reinette Russet'	r	-	-
'Reinette Tres Tardive'	-	-	vr
'Reinette Verte'	vr	vr	vr
'Reka' TM	vr	s	r
'Rekarda' TM	r	r	-
'Releika' TM	vr	r	s
'Releta'	vr	s	s
'Relinda'	r	s	s
'Remo' TM	vr	vr	vr
'Remura'	vr	s	s

'Rene'	vr	vr	vr
'Renetta Grigia di Terriana'	r	-	-
'Renora'™ (winter cultivars)	r	r	s
'Renown' (Crab)	-	-	r
'Repinaldo do Liebana'	-	-	r (blossom)
'Rescue'	-	-	r
'Resi'™	r	s	s
'Retina'™	r	r	s
'Reverend W Wilkes'	r	-	-
'Rewena'™	vr	vr	vr
'Rezista Early Jon-like' ®, PPAF	r	r	r
'Rezista Gala-like' ® (Releika cv.)	r	r	r
PPAF			
'Rezista Gold Granny' ® (Goldstar cv.), PPAF	r	r	r
'Rezista Rome-like' ® (Rajka cv.)	r	r	r
'Rezista'® (Releika cv-PPAF)	r	r	r
'Rezista'® (Resi cv-PPAF)	r	r	r
'Rhode Island Greening' (Triploid)	r	s	-
"Rhode Island Greening" (Tetraploid)	r	s	s
'Ribston Pippin'	r	-	-
'Richared Delicious'	-	r	r
'Richelieu'	vr	r	r
'Richland Crab'	-	-	vr
'Ringo Asami'	-	-	vr
'Rinkii'	-	-	r
'Rival'	vr	-	-
'Riversii'	-	-	r
'Robinson' (Crab)	r	vr	vr
'Robusta 5'	-	-	r
'Rockii'	-	-	r
'Rockingham Red'	r	r	r
'Rogers McIntosh'	s	vr	vr
'Romagold' ('Jonagold' sport)	r	r	-
'Rome Beauty'	r	vs	-
'Rome Beauty Law'	-	-	r
'Rome Beauty Taylor Strain'	r	-	-
'Romus 1'	vr	-	-
'Romus 2'	vr	-	-
'Romus 3'	vr	-	-
'Rosana'	vr	-	-

'Rosea'	r	s	vr (others s)
'Rosedale'	-	-	vr
'Rosemary Russet'	r	r	-
'Ross Nonpareil'	vr	-	r
'Rosthern'	-	-	r
'Rosu de Cluji'	r	-	-
'Rote Goldparmäne'	r	-	-
'Roundway Magnum Bonum'	vr	-	-
'Roundways'	r	-	-
'Rouville'	vr	-	-
'Roxbury Russet'	r	s	s
'Royal Empire'™	-	vr	vr
'Royal Red'	-	vr	vr
'Royal Somerset'	r	-	-
'Royal Wilding'	-	-	vr
'Royalty Crab'	r		vr
'Ruban'	r	r	-
'Rubinette'	r	r (others s)	r (others)s
'Rubinola'	r	r	-
'Rubinstep'	s	r (slightly)	s
'Ruble Red Winesap'	vr	vr	vr
'Ruby'	-	vr	vr
'Rudens Suitrotais'	-	-	r
'Rudolph'	-	-	r
'Runkel'	-	-	r
'Ryan Red'	-	vr	vr
'Saint Edmund's Pippin'	r	-	-
'Saint Johnsbury'	r	-	-
'Sali Delicious'	vs	vr	vr
'Sali Spur'	-	vr	vr
'Salome'	r	-	-
'Sam Young'	r	r	-
'Sandidge'	-	vr	vr
'Sansa'	r	-	-
'Sanspareil'	r	r	-
'Santana'	vr	vr	vr
<i>sargentii</i>	r	-	-
<i>sargentii</i> 'Satin Cloud' (Crab)	r	-	-
'Saturn'	r	-	-
'Sawa'	r	-	-
'Sawpit'	r	-	-
'Sayaka'	r	-	-

'Scarlet Crofton'	r	-	-
'Scarlet O'Hara'	r	s	vs
'Scarlet Pimpernel'	r	-	-
'Scarlet Nonpareil'	-	-	vs
'Scarlet Pearmain'	-	-	vr
'Scarlet Spur Delicious'	vs	vr	vr
'Schneica'	r	r	-
'Schneiderapfel'	r	-	-
'Scotian Spur Mac' TM	s	vr	vr
'Scrumptious'	r	-	-
'Scugog'	-	-	r
'Sekai Ichi'	-	vr	vr
'Selena'	vr	r	r (slightly)
'Selkirk' (Crab)	r	-	r
'Sentinel' (Crab)	r	vr	r
'Sercombe Natural' (Cider)	r	-	-
'Serenade' (Crab)	r	-	-
'Shafer'	-	-	r
'Sharon'	-	-	r
'Sharopa'	-	-	vr
'Shay'	vr	r	
'Shawnee'	-	-	vr
'Shelley'	-	-	r (blossom)
'Shotwell'	-	vr	vr
'Shtreifling'	-	-	vr
'Siberian Crab'	-	-	vr
'Siddington Russet'	r	-	-
'Sidney Strake'	vr	-	-
'Silver Moon' (Crab)	r	-	-
'Simon's Russet'	r	vr	vr
'Sinai Fire' (Crab)	r	-	-
'Sir Prize'	vr	r	vs
'Sissipuk'	-	-	vr
'Siv'	r	r	-
'Sky Spur'	-	vr	vr
'Skyline Supreme'	-	vr	vr
'Slack Ma Girdle'	r	-	-
'Slocan'	-	-	vr
'Smith Jonathan'	-	-	v
'Smokehouse'	-	-	vr
'Smoothee'	r	vr	vr
'Snapp Stayman' TM	vs	vr	vr
'Snovit'	-	-	r

'Snowcap'	-	-	vr
'Snowdrift' (Crab)	r	vr	s
'SnowSweet' TM	r	-	r
'Somerset Redstreak' (Cider)	r	-	-
'Sonata TM ' ('Corail TM ', 'Pinova')	r	-	r
'Sops of Wine'	r	-	-
'Sour Bay' (Cider)	vr	-	-
'Souvenir de Fernand Cognet'	-	-	vr
'Sparkler'	-	-	r
'Spartan'	r	vr	vr
'Spartan 4N No 3'	r	vr	vr
'Spartan 4N Scotland'	r	vr	vr
'Spartan 4N Sweden'	r	vr	vr
'Spartan Compact'	r	vr	vr
'Spasserud'	-	-	vr
'Spencer'	-	r	vr
'Spigold'	r	s	vr (others s)
'Spijon'	-	-	r
'Spinosa'	-	-	vr
'Splendour'	-	vr	-
'Spontanea'	-	-	vr
'Spotted Dick' (Cider)	r	-	-
'Spurkoop'	vr	-	-
'Spy 227'	-	-	vr
'St. Anna Rode Boskoop'	-	-	vr
'St. Edmund's Pippin'	-	-	vr
'St Edmund's Russet'	r	r	-
'St Johnsbury'	r	-	-
'Starkling'	-	vr	vr
'Starkrimson Delicious'	-	vr	vr
'Stark's Earliest'	-	-	r
'Starkspur Golden Delicious'	r	vr	vr
'Starkspur McIntosh'	s	vr	vr
'Starkspur Red'	-	vr	vr
'Starkspur UltraRed Delicious'	-	vr	vr
'Staybrite Stayman'	-	vr	vr
'Stayman' ('Stayman Winesap')	s	vr	vr
'Sterling'	-	vr	vr
'Stevenson Wealthy'	r	s	s
'Stirling Castle'	vr	r	-
'Stockbearer'	r	-	-
'Stokes Red'	r	s	s

'Strawberry Parfait' (Crab)	vr	vr	-
'Striped Beauty'	-	-	vr
'Stroming'	-	-	vr
'Sturmer Pippin'	r	-	-
'Sugar Bush'	r	-	-
'Sugar Loaf' (Cider)	r	-	-
'Sugar Thyme' (Crab)	r	vr	r
'Summer John'	r	-	-
'Summer Mac'	s	vr	vr
'Summer Rambo'	r	-	r
'Summerland McIntosh'	s	vr	vr
'Summerred'	s	s	r (others s)
'Sun Fuji'™	r	s	s
'SunCrisp'	-	r	-
'Sundale'	r	vr	vr
'Sundance'	r	-	vr
'Sundog'	-	-	vr
'Sungold'	-	-	r
'Sunrise'	r	-	r
'Sunset'	r	-	-
'Sunset Sport'	r	-	-
'Suntan'	r	vs	vs
'Super Chief Delicious'	-	vr	vr
'Super Rambo'	-	-	vr
'Super Starking'	-	vr	vr
'Svatava'	vr	r	s
'Sweden Spartan'	-	-	r
'Sweet Bay'	vr	-	-
'Sweet Cleave' (Cider)	r	-	-
'Sweet Coppin' (Cider)	r	-	-
'Sweet Delicious'	-	vr	r
'Sweet Sixteen'	r	s	r (others s)
'Sykehouse Russet'	r	-	-
'Szampion'	r	r	-
'Tale Sweet'	r	-	-
'Tangowine'	r	-	-
'Tasty'	-	-	vr
'Taunton Cross'	vr	-	-
'Taunton Fair Maid' (Cider)	r	-	-
'Tayeshnoe'	-	-	vr
'Tellisaare'	r	-	-
'Testerspur Golden Delicious'	r	vr	vr

'Tex Red Winesap'	s	vr	
'Texana'	-	-	vr
'Timiskaming'	-	-	vr
'Tina' (Crab)	r	vr	vr
'Thomas Rivers'	r	-	-
'Thome Empire'	-	vr	vr
'Thunderchild'	-	-	vr
'Tim's Early'	vr	-	-
'Tohoku 4'	r	r	-
'Toko'	-	-	vr
'Tom Putt'	vr	-	-
'Tommy Knight'	vr	-	-
'Topaz'	r	r	s
'Topred'	-	vr	vr
'Topspur Delicious'	-	vr	vr
'Toshkee'	-	-	r
'Town Farm No. 59'	r	-	-
'Trailman'	-	-	r
'Transparente de Croncels'	vr	-	-
'Treco Red Fuji'	r	s	s
'Tregonna King'	vr	-	-
'Trent'	vr	vr	vr
'Tsugaru'	r	r	r
'Tukker'	r	r	-
'Turner'	-	vr	vr
'Twinings Pippin'	r	s	s
'Tydeman's Early'	r	s	s
'Tydeman's Early Spur'	r	s	s
'Tydeman's Early Worcester'	r	r	vs (others vr)
'Tydeman's Late Orange'	r	r (others s)	vs
'Tydeman's Michaelmas Red'	-	-	vr
'Upton Pyne'	r	-	-
'Vallee Spur Delicious'	-	vr	vr
'Valstar'	-	-	r
'Vance'	-	vr	vr
'Vanda'	vr	r	-
'Vanderpool Red'	r	r	-
'Veitch's Perfection'	r	-	-
'Viking'	-	r	-
'Viktoria'	vr	r	s

'Vilmorin'	-	-	r
'Vinnoe'	r	-	-
'Virginia Beauty'	-	vr	vr
'Virginia Gold'	r	-	r
'Voinea'	vr	-	-
'Wabiskaw'	-	-	r (blossom)
'Wakaga'	-	-	r
'Wagener'	vr	s	s
'Wamdesa'	-	-	r
'Warner's King'	vr	-	-
'Warrier'	vr	-	-
'Washington Spur'	-	vr	vr
'Watergate Yellow'	r	-	-
'Waubay'	-	-	vr
'Wayne'	-	-	r
'Wayne Spur'	-	r	r
'Wealthy'	r	s	s (others r)
'Wecota'	-	-	r
'Welday Jonathan 4X'	-	-	vr
'Wellington' (USA)	-	vr	vr
'Wellington'	-	s	vr
'Wellington Bloomless'	-	-	r (blossom)
'Wheeler's Russet'	r	-	-
'White Alphington' (Cider)	r	-	-
'White Angel' (Crab)	r	-	r
'White Candle' (Crab)	-	-	r
'White Cascade' (Crab)	r	vr	vr
'White Close Pippin' (Cider)	vr	-	-
'White Jersey'	-	-	vr
'White Majetin'	r	-	-
'White Transparent'	r	r	vs
'Wickson Crab'	-	vr	vr
'Wijcik McIntosh' (Columnar)	-	vr	vr
'Wilhelm Ley'	r	-	-
'Williams'	-	-	vr
'William's Favourite'	-	vr	vr
'William's Pride'	vr	r	r
'William's Red'	-	-	r
'Winesap'	r	r	vr
'Winston'	r	-	vr
'Winston Sport'	r	-	-
'Winter Gold' (Crab)	r	-	-

CULTIVAR	SCAB	MILDEW	FIREBLIGHT
'Winter Holly'	-	-	r
'Winter Peach'	r	-	-
'Winter Sweet'	-	-	vr
'Wintergold' Crab)	r	r	r
'Witos'	r	-	-
'Wodarz'	-	-	r
'Wolf River'	r	r	s
'Woolbrook Pippin'	r	r	-
'Woolbrook Russet'	r	-	-
'Worcester Cross'	vr	-	-
'Worcester Russet'	r	r	-
'Worcester Pearmain'	s	r	-
'WSU AxP™(Edible Crab)	r	-	-
'Wyken Pippin'	r	-	vr
'Wynooche Early'	vr	-	-
<i>x zumi</i> 'Calocarpa' (Crab)	r	-	-
<i>x zumi</i> 'Winter Gem' (Crab)	r	-	-
<i>x zumi</i> 'Wooster' (Crab)	r	-	-
'Yataka'	r	vs	vs
'Yellow Bellflower'	s	-	vr
'Yellow Delicious'	-	-	vr
'Yellow Delicious, Stauffer Strain'	r	vr	vr
'Yellow Jewel' (Crab)	r	-	-
'Yellow Pitcher'	r	-	-
'Yellow Siberian' (Crab)	-	r	r
'Yellow Transparent'	r	r	vs
'Yellow Red Delicious'	-	-	vr
'Yellowspur'	r	vr	vr
'Young America'	-	-	r (blossom)
'Yunnan Crab Apple'	-	-	vr
'Zestar'	r	r	r
'Zlatna Resistenta'	-	-	r
'Zumirang' (Crab)	-	-	vr

The following numbered cultivars were bred for disease resistance and are currently being tested in Oregon and Washington. Even though they have not proven themselves they may be available in the future.

CULTIVAR

SCAB

MILDEW

FIREBLIGHT

CCR2T50	r	s	-
CCR9T69	r	s	-
COOP 15	r	r	-
COOP 25	r	r	s
COOP 27	r	-	r
COOP 28	r	-	s
CL20-22	r	-	-
HE 3-139	r	-	-
HE 13-22	r	-	-
HE 3-4	r	-	-
NATCO 58	r	-	-
NJ 109	-	-	r
NY 674	r	r	r
NY 74840-1	r	-	-
NY 74828-12	vr	-	-
NY 65707-19	vr	-	-
NY 73334-35	vr	-	-
NY 75413-30	vr	-	-
NY 75414-1	vr	-	-
NY 75441-67	vr	-	-

If you know of any other disease resistant apples or of any errors in this list please let me know. Please visit the Home Orchard Society website at www.homeorchardsociety.org for fruit growing information.

Compiled by:
 Ted L Swensen
 Last updated Wednesday, November 22, 2006