

Apple Fruiting

Spur and Semi-spur Apple Varieties – Over 1000 spur and semi-spur varieties listed. Apple trees that have fruit on spurs or semi-spurs are more dwarfing. They also require special pruning techniques.

Tip and Partial-tip Apple Varieties – Over 350 varieties listed. Fruit are borne on the tip of the branches, and are weeping and require little to no pruning.

SPUR-TYPE FRUITING APPLES FOR THE HOME ORCHARD

For home orchardists there are several advantages in growing spur-type trees. As the name indicates, the fruit is borne on spurs. Spurs are slow growing leafy shoots and have a mixed terminal bud. A mixed terminal bud will produce shoot and flowers. In apples, spurs develop on two-year old shoots from axillary buds located at the base of each leaf. Axillary buds on a spur can give rise to shoots or new spurs. A branched spur system forms after several years when new spur form on old spurs. Spur-type strains are more dwarfing than the standard stain. When spur and standard strains were compared in Washington rootstock trials, the spurs were 25% smaller than standard stains. Spur-type apples have a growing and fruiting characteristic in which lateral (axillary) buds on two year old wood gives rise to a higher portion of spurs and fewer lateral shoots than occur with standard growth habits. This gives the tree a more open canopy and compact growth habit than standard trees. Research indicates that they have approximately half the canopy volume of standard strains. Spur-type varieties generally have strong, narrow-angled lower branches and a relatively weak central leader. All of this makes them easier to prune.

Spur-type trees are usually mutations of standard fruiting trees. Because of this, growers and nurserymen are watching for these mutations to occur. Note the number of spur-type Red Delicious.

In older spur-type trees, the spurs will dominate growth and there will be little to no annual shoot growth. Therefore, spur-type trees require special pruning techniques to encourage spurs and replace old spurs.

A PARTIAL LIST OF SPUR & SEMI-SPUR APPLE CULTIVARS (1,039 Listed)

'Ace Spur Delicious'
'Acme'
'Adam'
'Adams Apple'
'Admiral'
'Advance' ('Laxton's')
'Aivania'
'Akane'
'Akeron'
'Akin'
'Alamata'
'Alamata Akin' semi-spur
'Alexander'

'Alfriston'	
'Alkmene'	
'Allen's Everlasting'	
'Allington Pippin'	
'Alnarp 2'	semi-spur
'Alpha 68'	
'Alpha 68B'	semi-spur
'Amanashiki'	
'Amanishiki'	
'Amasya #2'	semi-spur
'Amasya #3'	
'Amasya #4'	
'Amasya #5'	
'Ambrosia'	semi-spur
'Amelia'	semi-spur
'Amsib Crab'	semi-spur
'American Forestier'	
'American Golden Russet'	
'American Summer Pearmain'	
'Amelia'	semi-spur
'Amzr Gauthier'	
'Ananas Berzenicki'	semi-spur
'Ananas Reinette'	
*'Anderson Red Delicious'	
'Anis'	
'Anis Aliy K-32'	semi-spur
'Anisim'	semi-spur
'Annie Elizabeth'	
'Antonovka'	semi-spur
'Antonovka Kamenichka'	
'Antonovka 172670-B'	semi-spur
'Api'	
'Api Noir'	
'Api Rose'	
'Apple Babe'	
'Applewaites' TM	
'Apricot Apple'	
'Ard Cairn Russet'	
'Arkansas'	
'Arkansas Black'	spurs and short shoots
*'Arkansas Black, Compspur'	
*'Arkansas Black, Spur'	
*'Arkansas Black, Starkspur'	

'Aromatic Russet'	
'Arthur Turner'	
'Arthur W. Barnes'	
'Ashmead's Kernel'	
'Atika Gold' TM	
'Atlas'	
'Atwood Spur'	
'Auralia'	semi-spur
'Aurora Golden Gala' TM	
'Baldwin'	semi-spur
'Ballarat Seedling'	
'Bald Mountain'	long spurs
'Banning Red Fuji' TM	
'Banon's Seedling'	semi-spur
'Barry'	semi-spur
'Bates Lobo'	semi-spur
'Batul-Alma'	
'Bauman's Reinette'	
'Baxter'	semi-spur
'Beacon'	semi-spur
'Beau Jade'	
'Beau Rose'	
'Beautiful Arcade'	semi-spur
'Beauty of Bath'	
'Bedford Pippin'	semi-spur
'Bel-el' TM ('Elstar' sport)	
'Bell de Pontoise'	
'Belle Cox' TM	
'Belle de Boskoop'	
'Belle de Crollon'	
'Belle Imperiale'	semi-spur
'Bemali'	
'Benham'	
'Benifuji' TM	
'Benseman's Seedling'	
'Beregi Sovári'	
'Bernier Rosen' ('Berne Rose')	
'Bess Pool'	
'Benet Blanc'	
'Bernier Rosen'	semi-spur
'Beverly'	semi-spur
'Bisbee' ('Red Delicious' type)	semi-spur & partial tip

'Black Oxford'	semi-spur
'Blahova Ruzena'	semi-spur
'Blairmont'	semi-spur
'Blauacher'	
'BlI'	
'Blushing Golden'	
'Bodil Neergaard'	semi-spur
'Bolero'	
'Boller McIntosh'	semi-spur
'Boskoop Rouge'	semi-spur
'Bouteille'	semi-spur
'Bouteille de Liseux'	semi-spur
'Bovarde'	
'Bowden Seedling'	semi-spur
'Brabant Bellefleur de'	semi-spur
'Braddick Nonpareil'	
*'Braeburn'	
'Bramley'	semi-spur
'Bramtot'	semi-spur
'Breakey'	
'Brettacher Sämpling'	
'Brock'	
'Brookes's'	
'Brown Snout'	
'Brownlee's Russet'	
'Brown's Apple'	semi-spur
'Brunnsapple'	
'Calville Blank d'Hiver'	
'Calville de Doué'	
'Calville Malingre'	
'Cameron '	semi-spur
Camuzat'	
'Canada Gris'	
'Caravel'	semi-spur
'Carlton'	
'Casa Nova de Alco Baca-9'	semi-spur
'Cathay '	semi-spur
'Cavallotta'	
'Celt'	
'Centurion'	semi-spur
'Champagne Reinette'	
'Champlain'	

'Charles Ross'	
'Charlotte'	
'Châtaigneir'	
'Cheal's Golden Gem'	semi-spur
*'Cheddar Cross'	
'Chehalis'	semi-spur
'Chieftain'	semi-spur
'Chihuahua Gold'	semi-spur
'Chick-A-Dee McIntosh'	
'Chinook'	
'Chiver's Delight'	
'Circassian Apple'	
'Civini' TM	semi-spur
'Clarkes Flowering Crab'	
'Clark's Dwarf'	semi-spur
'Clovis Spice'	
'Coast Apple'	semi-spur & partial tip
'Coe's Golden Drop'	
'Cola'	
'Cole'	
'Collet'	semi-spur
'Columbia Crab'	semi-spur
'Columnaris'	
'Comrade'	
'Commander York'	
'Compspur Arkansas Black'	
'Compspur Granny Smith'	
'Compspur Rome Beauty'	
'Comrade'	
'Coop 4'	
'Coop 15'	
'Coop 33'	
'Coop 42'	
'Coralburst'	semi-spur
'Cornish'	
'Coromandel Red'	
*'Cortland, Starkspur'	
'Court Pendu de France'	
'Court Pendu Plat'	
'Court Pendu Rose'	semi-spur
'Cowichan'	semi-spur
'Cox's Orange Pippin'	
'Cox's Orange Pippin Spur Type'	

'Crab C'	
'Crawley Beauty'	
'Creamy Kitaika'	semi-spur
'Crimson Jonagold'	
*'Crimson Spur'	
'Crimson Superb'	semi-spur
'Crispin' ('Mutsu')	
*'Criterion, Par-fect, Spur'	
'Crown Prince Rudolph'	
'Crystal Blaze'	
'Cumberland Spur'	
'Cut-Leaved Crab'	semi-spur
'Cutleaf Crab'	semi-spur
'De Bonde'	
'De Leroy'	
'Decio'	
'Del Cirio'	
'Delbard Jubilee'	semi-spur
'Delicoce'	
'Deli-Jon'	
'Delblush' TM ('Tentation')	
*'Delicious, Select Spur'	
'Delicoce'	
'Delistein'	semi-spur
'Demir' (Crab)	semi-spur
'Detroit Red'	
'Devon Crimson Queen'	
'Devonshire Quarrenden'	
'Dianaspur'	
'Discovery'	
'Discovery Spur Type'	
'Djulabia'	
'Dolgo' (Crab)	semi-spur
'Domino'	
'Domnicelle'	
'Dorsett Golden'	semi-spur
'Double Bon Pommier'	semi-spur
'Double Rose'	
'Doux Normandie'	semi-spur & partial tip
'Doux Tardif'	semi-spur
'Downing No. 1'	
'Dubbele Zoete Aagt'	semi-spur

'Duchess's Favourite'
 'Duke of Devonshire'
 'Dukat Spur Type'
 'Dumelow's Seedling'

 'Earlichief'
 'Earlistripe'
 'Early Cortland'
 'Early Granee'
 'Early Harvest' semi-spur
 'Early Spur Rome'
 'Early Strawberry'
 'Edith' semi-spur
 'Edward VII'
 'Edward's Coronation'
 'Egremont Russet'
 'Elliot Spur'
 'Ellis Bitter' semi-spur
 'Emmeth Early'
 *'Empire'
 'Empress Spur Golden Delicious'
 'Encore'
 *'Epicure'
 'Empire' semi-spur
 'Erecta '
 'Ermak'
 'Ernst Bosch'
 'Ervin Red'
 *'Esopus Spitzenberg'
 'Etter's Gold'
 'Evangil'

 'Farrington' (sport of 'Winesap')
 'Fameuse' ('Snow Apple')
 'Fastigiata'
 'Field Spy'
 'Fiesta'
 'Fillbarrel' semi-spur
 'Fillingham Pippin'
 'Firefly' semi-spur
 'Firm Gold'
 'Fisell Golden'
 'Flamenco'

'Flexilis'	semi-spur
'Florina'	semi-spur
'Foxwhelp'	
'France Deliquet'	
'Frazier's Spur'	
'Free Red Star'	semi-spur
'Freedom'	
'Frequin'	semi-spur
'Frequin Auduera'	
'Frequin Rouge'	semi-spur
'Frumos de Voinesta'	semi-spur
'Freyberg'	
'Fructo-flavo'	semi-spur
'Fuji'	semi-spur
'Fuji Lynd Spur'	
'Fuji-Spike'	
'Fustiere'	
Spur type 'Gala'	
spur 'Gala-go-Red'	
spur 'Red Gala #42'	
'Galarina'	semi-spur
'Gales'	
'Garry '	semi-spur
'Gascoyne's Scarlet'	
'Geeveston Fanny'	
'Genvina' (Crab)	semi-spur
'George Cave'	
'George Neal'	
'Gilliflower'	semi-spur
'Ginger Gold'	partial spur and partial tip
'Gladstone'	partial spur and partial tip
'Golckenapfel'	
'Gloria Mundi'	
'Gold Chief'®'	
'Gold Spur'	
'Goldblush, Spur'	
Spur type 'Golden Delicious'	
'Golden Auvilspur'	
'Golden Delicious, Elliot'	
*'Golden Delicious, Empress Spur'	
'Golden Delicious, Frazer'	
'Golden Delicious, Gilbert'	

'Golden Delicious Gibson Strain'
 *'Golden Delicious Goldspur' ('Goldenspur')
 'Golden Delicious, Morrison'
 'Golden Delicious, Schell'
 *'Golden Delicious, Spur'
 *'Golden Delicious, Starkspur'
 'Golden Delicious, Sundale'
 'Golden Delicious, Templin'
 'Golden Delicious, Thompson'
 'Golden Morspur'
 'Testerspur Golden Delicious'
 'Yellowspur'
 'Golden Gem'
 'Golden Glory'
 'Golden Hornet'
 'Golden Nugget'
 'Golden Precoce' semi-spur
 'Golden Spires' semi-spur
 'Golden Supreme™' (Carnefix cv.)
 'GoldreINETte v. Cazis'
 'Goldrush'
 'Goldspur'
 'Goof'
 'Gracilis ' semi-spur
 'Grise Dieppoise'
 *'Granny Smith' Compspur
 *'Granny Smith, Spur'
 *'Granny Smith, Starkspur'
 'Gravenstein' partial spur and partial tip
 'Green Peak McIntosh 2-2-4-4' semi-spur
 'Greensweet'
 'Greenmeadows Cox's Orange Pippin No.1163'
 'Greensleeves'
 'Greds Frequin'
 'Grenadier' semi-spur
 'Grendine'
 'Griffith' semi-spur
 'Grise Dieppoise'
 'Gros-Api'
 'Gros Frequin' semi-spur
 'Grosse Mouche' semi-spur
 'Guldborg'
 'Gwendolyn' semi-spur

'Gypsy Gold'	semi-spur
'Halberstadter Jungfernapfel'	semi-spur
'Hangro'	
'Hansen's #2'	semi-spur
'Hardispur'	
'Harrison' (Cider)	spur & partial tip
'Harry Masters Jersey'	semi-spur
'Hawaii'	
'Hawkes Bay Red Delicious'	semi-spur
'Hawkeye'	
'Hector Macdonald'	
'Hedwigiae'	semi-spur
'Heimenhofer'	
'Helios'	
'Henry F. Dupont'	
'Henning'	semi-spur
'Herefordshire Russet™'	
'Hermann'	semi-spur
'Herring's Pippin'	
'Hert 166'	
'Heyer #12'	semi-spur
'Hibernal'	semi-spur
'Himalaica'	semi-spur
'Hog's Snout'	
'Holiday'	semi-spur
'Holland'	semi-spur
'Holly'	semi-spur
'Holstein'	
'Home Sweet'	
'Hommel'	
'Honeycrisp'	
'Hope Cottage Seedling'	
'Hordapfel'	
'Hoser'	semi-spur
'Howgate Wonder'	
'Hubbard's Pearmain'	
'Huidobro'	
'Hunter Sandow 2-4-4'	
'Hwahong'	
'Hybride aus Mlejwo'	semi-spur
'Hyslop Crab'	semi-spur

'Idagold'	
'Idajon'	semi-spur
'Idaho Spur' (sport of 'Red Delicious')	
'Idared'	
'Imperial'	
'Ingers'	semi-spur
'Ingram'	
'Ingrid Marie Spur Type'	
'It Delicious'	
'Inost'	semi-spur
'Ivory's Double Vigour'	
'Iwamatsa Spur' ('Fuji' spur type)	
'J. Dolling's Bonsai'	semi-spur & partial tip
'Jackii'	
'Jadernicka'	semi-spur
'James Kirk'	
'James Lawson'	
'Jan Steen'	
'Jaune lu Desert'	semi-spur
'Jennifer Sweet'	
'John Divers'	
'John Downie'	semi-spur
'John Standish'	
'Jonafree'	semi-spur
'Jonagold'	
'Jonagold Paleguy'	semi-spur
'Jonagored Supra'®	semi-spur
'Jonaspur'	
'Jonathan'	
'Jouveaux'	semi-spur
'Joys'	semi-spur
'Jubilee Fuji' TM	
'Juliet'	semi-spur
'Juniper'	
'Kaiser Wilhelm'	semi-spur
'Kalco'	
'Kendall'	
'Kandil Kitaika'	semi-spur
'Kanki'	spur & partial tip
'Kansas'	semi-spur
'Kansas K14'	semi-spur

'Karastojanka'	
'Kardinal Bea'	semi-spur
'Kasseris Reinette'	
'Katja' ('Katy')	
'Keepsake'	semi-spur
'Kendall'	
'Kerr'	semi-spur
'Kestrel'	
'Keswick Codlin'	
'Keuleman'	semi-spur
'Kidd's Orange Red'	
'King Harry'	semi-spur
'King of Pippins'	
'Kingston Black'	
'Kinsei'	semi-spur
'Kinsei'	
'Kizil Alma 826'	
'Klehmii'	semi-spur
'Knottenbelt Red'	
'Kobendza'	semi-spur
'Kokko'	semi-spur
'Kokko strain 2'	semi-spur
'Kola'	semi-spur
'Kolocara'	
'Köningin Juliana'	
'Korea'	semi-spur
'Korea Wild Apple'	semi-spur
'Korallo'	semi-spur
'Kornicensis'	semi-spur
'Korichnoe Novae K23938'	semi-spur
'Korobovka'	
'Kosmonaut'	
'Kouleman'	semi-spur
'Krievu Rosmarins'	semi-spur
'Kulon Kitaika'	semi-spur
'Kurosh Siberica x Bellfleur'	
'Lady'	
'Lady Henniker'	
'Lalla Red Delicious'	semi-spur
'Lamb Abby Pearmain'	
'Lambrook Pippin'	semi-spur
'Langworthy'	semi-spur

'Lane's Prince Albert'	
'Large Red Flesh Siberian Crab'	
'Launette'	semi-spur
'Laxton's Epicure'	
'Laxton's Leader'	semi-spur
'Laxton's Reward'	semi-spur
'Laxton's Superb'	
'Leathercoat Russet'	
'Lemoen'	semi-spur
'Lemon Pippin'	semi-spur
'Lennoxville'	
'Leucocarpa'	semi-spur
'Lewis Incomparable'	semi-spur
'Liddel's Seedling'	
'Limbertwig Ramsey Smoky'	
'Limelight'	
'Lindo da Insua-6'	
'Liset' (Crab)	semi-spur
'Livadiyskoye'	semi-spur
'Lobo'	semi-spur
'Lodgemore Nonpareil'	
*'Lodi, Comspur'	
'Lord Derby Spur Type'	
'Lord Hindlip'	
'Lord Seedling'	
'Lorna Doone'	semi-spur
'Lundbytorp'	
'Luntersche Pippeling'	
'Lurared'	semi-spur
'Macfree'	semi-spur
'MacExcel' (Columnar)	
'Macoun'	
'Macspur McIntosh'	
'Madonna'	semi-spur
'Mai'	
'Major'	semi-spur
'Makamik'	semi-spur
'Malabols'	semi-spur
'Malling Kent'	
'Mandshurica 2330'	
'Mance' (sport of 'Winesap')	
'Manche Rouge'	

'Manchu'	semi-spur
'Manchurian' (crab)	semi-spur
'Manitoba Spy'	semi-spur
'Marachal'	semi-spur
'Marborka'	
'Margil'	
'Marie-Louise Ducote'	
'Mark's Sweet'	
'Marshall McIntosh'	semi-spur
'Maurerbe'	semi-spur
'Maunzenapfel'	
'May Queen'	
Spur type McIntosh	
'Dewar'	
*'McIntosh, Compact'	
*'McIntosh, Compspur'	
'McIntosh, Boller semi-spur'	
*'McIntosh, MacSpur'	
'McIntosh, Marshall	semi-spur
*'McIntosh, Mor-spur'	
*'McIntosh, Palodino spur'	
'McIntosh Summerland Red'	semi-spur
*'McIntosh, Ultamac'	
'Starkspur McIntosh'	
*'Wjczik McIntosh' ('Starkspur Compact Mac') - columnar tree	'
'Marshall McIntosh'	
'McMahon'	
'Measday Favourite'	
'Medaille d'Or'	semi-spur
'Melrose'	semi-spur
'Merton Beauty'	
'Merton Charm'	
'Merton Russet'	semi-spur
'Merton Worcester'	
'Merton No. 789'	semi-spur
'Metais'	
'Mettas ('Sauvignon Adrienne')	semi-spur
'Michaelmas Red'	semi-spur
'Michelin'	semi-spur
'Michurin's Seedless'	semi-spur
'Midget Crab'	
'Midnight Spur Delicious'	
'Miller SturdySpur'	

'Miller's Seedling'	
'Minister von Hammerstein'	semi-spur
'Mislimka'	
'Mitchell'	
'Mitschurins Samenloser'	semi-spur
'Mr. Prothero'	
'Mleevskaya Crasavitsa'	semi-spur
'Mobb's Royal'	semi-spur
'Mollie's Delicious'	semi-spur
'Monroe'	semi-spur
'Morspur'	
'Morspur McIntosh'	
'Mother'	
'Mottais'	
'Mrs. Phillimore'	
'Murasaki'	semi-spur
'Muscadet de Dieppe'	semi-spur
'Mutsu' ('Crispin')	
'Muz-alma'	semi-spur
'Nagano'	semi-spur
'Nanny'	semi-spur
'Nebuta'	
'Nemtesc cu Miezul Rosu'	
'Niedzwetzkyana'	semi-spur
'Nemtesc cu Miezul Rosu'	
'Neverblight'	
'New Brunswick'	
'Newred Spur Delicious'	
'Niagara'	semi-spur
'Nipissing'	
'Nitschners Erdbeerapfel'	semi-spur
'NJ90'	semi-spur
'Noel Deschamps'	semi-spur
'Nonpareil'	
'Norcue'	semi-spur
'Norfolk Beefing'	semi-spur
'Noral 2 8918'	
'Norland'	semi-spur
'Northern Spy'	
'Northland'	semi-spur
'Northwest Greening'	semi-spur
'Northwood'	

'Notaire'	semi-spur
'NovaSpy'	semi-spur & partial tip
'Novosibirski Sweet'	semi-spur
'Nugget'	
'Nutmeg Pippin'	
'NY 49-407'	semi-spur & partial tip
'NY 61-345-2'	
'NY 75441-67'	
'Oberle'	
'Odin'	semi-spur
'Ogden'	
'Ohio Nonpareil'	
'Okanoma'	
'Old Nonpareil'	semi-spur
'Olga Crab'	semi-spur
'Ontario'	
'Opalescent'	semi-spur
'Oregon Spur Delicious'	semi-spur
'Oriole'	semi-spur
'Orleans Reinette'	semi-spur
'Oswego'	
'Owen Thomas'	
'Pacific Gold'	semi-spur
'Pagsup Spur Type'	
'Paides Ziemas Abols'	semi-spur
'Paradis do Vayre'	semi-spur
'Paradiso'	
'Par-Fect Spur Criterion'	
'Parker's Pippin'	
'Paroquet'	
'Paulared'	semi-spur
'Pearmain, American Summer'	
'Peasgood Nonsuch'	
'Peau d'Ane'	semi-spur
'Pederstrup'	
'Perleberg'	
'Perleberg'	
'Petrel'	semi-spur
'Peypring Cerueuko'	semi-spur
'Pigeonnet Rouge'	semi-spur
'Pingo'	

'Pink Sparkle'	semi-spur & partial tip
'Pink Wood'	semi-spur
'Pitmaston Pine Apple'	
'Pitmaston Pineapple X 692'	semi-spur
'Pixie'	
'Plena'	
'Pocomoke'	
'Poeltsamaa Winter Apple'	semi-spur
'Pohorka'	
'Polka'	
'Pomme Raisin'	
'Pomme Thoury'	
'Potter Cox'	
'Pott's Seedling'	semi-spur
'Prairie Fire'	semi-spur
'Prairie Gold'	
'Prairie Spy'	semi-spur
'Prairie Sun'	
'Pres. Descours-Desacres'	semi-spur
'Priam'	semi-spur
'Pricilla'	
'Primevere'	
'Primrouge'	semi-spur
'Primus'	semi-spur
'Prince Charming'	
'Prince Nicolas'	semi-spur
'Priscilla'	semi-spur
'Pristine' TM	semi-spur
'Prof. Grebnicka Renete'	semi-spur
'Professor Sprenger'	semi-spur
'Profusion'	semi-spur
'Purpurroter Cousinot'	semi-spur
'Puregold'	semi-spur
'Pyramidal'	
'Quindell'	
'Radiant'	
'Ralph Shay'	semi-spur
'Rambour'	
'Rambourg d'Automme'	semi-spur
'Rambourg Mortier'	
'Rankin Red' ('Yakata' sport)	

'Red Astrachan'	semi-spur
'Red Baron'	semi-spur
'Red Canel'	semi-spur
*'Red Chief, Campbell Strain'	
'Red Cinnamon'	semi-spur
*'Red Court'	
'Red Delicious:' Spur types	
*'Red Delicious, Ace Spur'	
*'Red Delicious, Apex Spur'	
*'Red Delicious, Atwood Spur'	
*'Red Delicious, Bisbee Spur' ('Starkcrimson Red Delicious')	
*'Red Delicious, Comspur'	
'Red Delicious, Earlistripe'	
'Red Delicious, Hawkes Bay'	
'Red Delicious, Hardispur'	
*'Red Delicious, Idaho Spur'	
'Red Delicious, Lalla'	semi-spur
*'Red Delicious, Larry Spur'	
'Red Delicious, Midnight® Spur Delicious'	
'Red Delicious, Miller Sturdyspur'	
*'Red Delicious, Nured Spur'	
'Red Delicious, Okanoma'	
*'Red Delicious, Oregon Spur II'	
*'Red Delicious, Redchief'	
*'Red Delicious, Redspur'	
'Red Delicious, Regal Red'	
'Red Delicious, Royal Stewart'	
*'Red Delicious, Scarlet Spur'	
*'Red Delicious, Skyspur'	
*'Red Delicious, Spur'	
'Red Delicious, Starkrimson'	
*'Red Delicious, Starkspur'	
*'Red Delicious, Sturdeespur'	
*'Red Delicious, Super Chief Spur'	
*'Red Delicious, Valle Spur'	
*'Red Delicious, Vermont Spur'	
*'Red Delicious, Wellspur'	
'Red Dijmanszoet'	
'Red Granny Smith'	
'Red Jewel'	semi-spur
'Red Jarnapple' ('Rott Jarnapple')	
'Red Jonaprince'	
'Red Prairie Spy'	semi-spur & partial tip

*'Red Rome, Spur No. 21'	
'Red Siberian'	semi-spur
'Red Silver'	semi-spur
'Red Spur'	
'Red Spy'	
'Red Zenith®,' Spur Delicious	
'Redchief Delicious'	
'Redcoat Grieve Spur Type'	
'Redgold'	
'Redhook'	semi-spur
'Redwell'	
'Regent'	semi-spur
'Reid's Seedling'	
'Reine des Hatives'	semi-spur
'Reine des Reinettes x 82'	semi-spur
'Reine des Reinettes x 1700'	
'Reineta do Caravia'	
'Renetta Dorata'	semi-spur
'Reneta Woskowa'	semi-spur
'Reinette Da Mana'	semi-spur
'Reinette de Champagne'	
'Reinette de Metz'	
'Reinette de Plouerc'	
'Reinette Clochard'	
'Reinette Franche'	
'Reinette Grise'	semi-spur
'Reinette Jamin'	semi-spur
'Reinette Jaune de Butzel'	semi-spur
'Reinette Simirenko'	semi-spur
'Reinette Tres Tardive'	semi-spur
'Reinette van Ekenstein'	semi-spur
'Reta'	semi-spur
'Reverend W. Wilkes'	
'Ribston Pippin'	
'Riversii'	
'Rival'	
'Robinson'	semi-spur
'Rockii'	semi-spur
'Roda Mantet'	semi-spur
'Rogers McIntosh'	semi-spur
'Rokewood'	semi-spur
Spur types of 'Rome Beauty'	
'Compact Rome'	

*'Rome Beauty, Compspur'	
*'Rome Beauty, Law Strain'	
*'Rome Beauty, Spur Red'	
*'Rome Beauty, Spuree'	
*'Rome Beauty, Taylor Strain' ('Starkspur Red Rome Beauty')	
*'Rome Early Spur'	
'Tift Spur Rome'	
'Romagold' ('Jonagold' sport)	
'Rosa del Caldara'	
'Rose Bud'	semi-spur
'Rose de Benauge'	semi-spur
'Rose du Perch'	
'Rosemary Russet'	
'Rosmarins Bianca'	
'Ross Nonpareil'	
'Rosthern'	
'Roter Eiserapfel'	semi-spur
'Rott Jarnpple'	
'Rouge de Born' ('Rouget de Born')	
'Rouge de Claron' ('Rouget de Claron')	
'Rougemont'	semi-spur
'Rousse Latour'	semi-spur
'Roxbury Russet'	semi-spur
'Roxbury Russet Sabaros'	
'Royal Leathercoat Russet'	
'Royal Wilding'	semi-spur
'Royalty'	semi-spur
'Royoka'	
'Ruberima'	semi-spur
'Rubinette'	
'Runkel'	spur and partial tip
'Sabaros'	
'Saint Ailred'	
'Saint Albans Pippin'	
'Saint Martin'	
'Sali Spur'	
'Salute'	semi-spur
'Sandel'	semi-spur
'Sandidge'	
'Sandling'	semi-spur
'Sandringham'	
'San Juan'	semi-spur

'Sauvenir'	semi-spur & partial tip
'Scarlet Crofton'	
'Scarlet Nonpareil'	
'Scarlet O'Hara'	long spurs, weak tip bearer
'Scarlet Pearmain S.T.P'	semi-spur
'Scarlet Pimpernel'	
'Scarlet Spur Delicious'	
'Sharopa'	semi-spur
'Schliecht Spur Delicious'	
'Scheidecker Crab'	semi-spur
'Schell' (sport of 'Winesap')	
'Schinto'	semi-spur
'Schneiderapfel'	semi-spur
'Schoharie Spy'	
'Schoolmaster'	
'Schoner aus Itzstedt'	semi-spur
'Schweizer Orangenapfel'	semi-spur
'Sciros'	
'Scotch Bright'	
'Scotch Dumpling'	
'Scotian Spur McIntosh' (USPP#10,770)	
'Scrumptious'	
'Seaton House'	
'Seabrook Red'	
'Seestermuher Zitronenapfel'	semi-spur
'Sekai-Ichi'	
'Sensacion'	semi-spur
'Sentinel'	
'September Beauty'	
'Severn Bank'	
'Shakespeare'	
'Shafer'	semi-spur
'Sharleston Pippin'	
'Sharon'	semi-spur
'Shamrock'	semi-spur
'Shelley'	semi-spur
'Sheep's Nose'	
'Shenandoah'	
'Sherrington Norman'	semi-spur
'Shizuka'	
'Shoemith'	
'Siberian Crab'	
'Sicora'	semi-spur & partial tip

'Signe Tillisch'	semi-spur
'Sikulai Alma'	
'Silken'	semi-spur
'Silvercup'	
'Sir Isaac Newton'	semi-spur
'Sir Prize'	semi-spur
'Sipolins'	semi-spur
'Sisson's Workshop Newtown'	
'Skinner's Seedling'	
'Skopje P2'	semi-spur
'Skovfoged'	
'Sky Spur'	
'Sykehouse Russet'	
'Slava Pobeditelyam'	semi-spur
'Slocan'	semi-spur
'Smoothie'	
'Smoothgold'	semi-spur
'Sops in Wine'	
'Smordodina'	semi-spur
'Snowcap'	semi-spur
'Snowdrift'	semi-spur
'Souvenir'	semi-spur
'Sparkler'	semi-spur
'Sparreholm'	
'Spartan'	
'Spartan Compact'	
'Spasovka Kvasna'	semi-spur
'Spencer'	
'Spijon'	semi-spur
'Spitzlederer'	
'Splendor' (Stark)	
'Splendour'	
'Spontanea'	semi-spur
'Spring Snow'	semi-spur
'Spur Arkansas Black'	
'Spur Goldblush'	
'Spur Red Rome Beauty'	
'Spur Winter Banana'	
'Spuree Rome Beauty'	
'Spurkoop'	
'Spy Double Red'	semi-spur
'Stahls Prinz'	semi-spur
'Star of Devon'	

'Starlight' TM	
'Stark'	
'Stark Winter King'	
'Starking'	
'Starkrimson Delicious'	
'Stark's Earliest'	
'Starkspur Arkansas Black'	
'Starkspur Golden Delicious'	
'Starkspur Granny Smith'	
'Starkspur McIntosh'	
'Starkspur Red'	
'Starkspur Winesap'	
'State Fair'	semi-spur
'Steikema 1' TM ('Gala' type)	
'Steirischer Roter Marschansker'	
'Stembridge Cluster'	semi-spur
'Stirling Charles'	
'Strathmore'	semi-spur
'Strawberry Pippin'	
'Striped Tawny'	
'Stoke Red'	semi-spur
'Stone Pippin'	semi-spur
'Storappel'	
'Strumer Pippin'	
'Succary'	semi-spur
'Sugar Thyme'	semi-spur
'Suislepper'	semi-spur
'Suislepas Rozabols'	
'Suislepper'	semi-spur
'Summerfield'	
'Sunburn'	
'SunCrisp' TM	
'Sundowner' [®]	
'Sungold'	semi-spur
'Sunhong'	
'Sunrise'	
'Sunset'	
'Suntan'	
'Super Chief Delicious'	
'Sure Crop'	
'Surpasse Frequin'	semi-spur
'Surprise Reinette'	semi-spur
'Susvorenskoye'	semi-spur

'Suvorovets'	semi-spur
'Sweet Coppin'	semi-spur
'Sweet Delicious'	
'Sweet Sixteen'	
'Sweet Society'	
'Takane']'	
'Tale Sweet'	semi-spur
'Tangowine'	
'Tardive Forestier'	semi-spur
'Tasman Pride'	
'Tasty'	semi-spur
'Tawria'	semi-spur & partial tip
'Teint Frais'	
'Telamon'	
'Tellina'	
'Tensei' TM ('Fuji' type)	
'Testerspur Golden Delicious'	
'Thorgauer Weinapfel'	semi-spur
'Tift Spur Rome'	
'Tilsith'	semi-spur
'Tohoku 2'	semi-spur
'Tohoku 4'	semi-spur
'Tom Putt'	
'Toreno'	semi-spur
'Tower of Glamis'	
'Trajan' (columnar)	
'Transcendent Crab'	semi-spur
'Tropical Beauty'	semi-spur
'Trusevitch I-48-41'	semi-spur
'Tuscan' (columnar)	
'Twenty Ounce'	semi-spur
'Tydeman's Early Worcester'	partial spur, partial tip
'Tydeman's Early Spur Type'	
'Tydeman's Late Orange'	
'Tydeman's Michaelmas Red'	semi-spur
'Tyler's Kernel'	
'Uralian Winter Apple'	semi-spur
'Vallee Spur Delicious'	
Van Eseltine'	
'Veitchii'	

'Velma'	
'Verjisono x Jonathon 55-109-149'	semi-spur
'Vered'	semi-spur
'Victor'	
'Viking'	semi-spur
'Vilmorin'	semi-spur
'Vystavochnoye'	semi-spur
'Wabiskaw'	
'Wagener'	
'Warner's King'	
'Washington Spur'	
'Wayne Spur'	
'Wealthy'	semi-spur
'Weaver Apple' TM ('Gala' type)	semi-spur
'Wellspur Delicious'	
'Wheeler's Russet'	
'White Angel'	semi-spur
'White Winter Pearmain'	semi-spur
'Whitney Crab'	
'Wijcik McIntosh'	
'Wild Red'	semi-spur
'Wierdakii'	semi-spur
'William Crump'	
'William's Pride'	
'Willie Sharp'	
'Winchester'	semi-spur
'Winesap:' Spur types	
'Farrington'	
'Mance'	
'Schell'	
*'Winesap Compspur'	
*'Winesap Spur'	
*'Winesap, Starkspur'	
'Windsor'	
'Winston'	
'Winter Banana, spur type'	
'Winter Blush'	
'Winter Gem'	
'Winter Gold'	semi-spur
'Winter Majetin'	semi-spur
'Winter Sweet Paradise'	
'Wyken Pippin'	

'Yellow Autumn Crab'	semi-spur
'Yellow Delicious:' Spur types	
*'Yellow Delicious, Spur	
*'Yellow Gold Delicious, Compspur	
'Yellow Newtown'	semi-spur
'Yellow Siberian'	semi-spur
'Yellow Transparent'	semi-spur
'Yellowspur'	
'York'	semi-spur
'Zabergäu ReINETTE'	
'Zapata'	
'Zestar!™	semi-spur
'Zigeunerinapfel'	
'Zimnieje Piervoskhodnoie'	
'Zoete Ermgard'	
'Zumi Crab'	semi-spur

TIP OR PARTIAL TIP BEARERS SPECIAL PRUNING TECHNIQUES

Some apples fruit at the tips of their branches and are termed "tip-bearers" or "partial tip-bearers." These trees produce all or almost all of their fruit on the branch tips. Do not head back severely when pruning, as you will remove your crop. Tip-bearers are less productive than spur type trees.

PRUNING TIP-BEARERS

When growing tip-bearers as highly trained forms (i.e., espalier, fan, cordon), these should be summer pruned in the same way as all cultivars. When grown as less highly trained forms (central leader, slender spindle) that are pruned in late winter or early spring, the best suggestion is to leave non-fruiting laterals up to 23 cm (9 in) in length. Then the fruit bud can develop at the tip. Shorten longer laterals to 4 buds, to encourage development of short sub-laterals the following year. Using the same principle, prune leaders lightly. Although tip-bearers are naturally spindly or droopy, the suggested pruning may cause over crowding and winter thinning of laterals may be needed.

354 Varieties Listed

'Adam's Pearmain'	partial tip
'Airlie Red Flesh'	
'Alastair Canon-White'	
'Aldenham Blenheim'	partial tip
'Aldenhamensis'	
'Alexis'	
'American Grinding'	partial tip
'Ananas Reinette x James Grieve'	
'Antonovka 1.5 pounds'	
'Antonovka Polutorafuntovaya'	
'Apetala'	
'Astrachan Large Fruited'	partial tip
'Athabasca'	
'Autumn Pearmain'	partial tip
'Baker's Delicious'	partial tip
'Ballyfatten'	
'Barnack Beauty'	
'Barnack Beauty Sport'	
'Barnack Orange'	
'Bashkirian Beauty'	

'Beauty of Bath'	
'Bedford Red'	
'Bert's Special'	
'Bess Pool'	partial tip
'Betsy'	
'Bisbee' ('Red Delicious' type)	partial tip & semi-spur
'Bismarck'	
'Bitterforest Apple'	
'Blenheim Orange'	partial tip
'Bordes'	
'Bramley Clone 20'	partial tip
'Bramley's Seedling'	partial tip
'Breakwell's Seedling'	
'Brusnichnoe'	
'Bullock'	
'Calville des Prairies'	
'Cambusnethan Pippin'	partial tip
'Carnifex'	
'Carola'	
'Charles Eyre'	
'Cheddar Cross'	partial tip
'Cherry Pearmain'	
'Chorister Boy'	partial tip
'Claygate Pearmain'	partial tip
'Cobham'	partial tip
'Cornish Gilliflower'	partial tip
'Coronation'	partial tip
'Cortland'	mostly tip some spurring
'Cottenham Seedling'	partial tip
'Cowiche'	
'Coxstone'	
'Crimson Beauty'	
'Crimson Beauty of Bath'	
'Crimson Beauty of Bath (LARS)'	
'Crimson Bramley'	partial tip
'Crimson Brilliant'	
'Crimson Spy'	partial tip
'Crown Prince Rudolf'	
'Curl Tail'	partial tip
'D'Arcy Spice'	partial tip
'Delblush' TM ('Tentation' [®])	

'Delcon'	
'Discovery'	partial tip and partial spur
'Discovery Spur Type'	partial tip
'Doch Diany'	
'Dodd'	partial tip
'Double Red Northern Spy'	partial tip
'Dougherty'	
'Drap d'Or Guemene'	
'Duchess of Oldenburg'	
'Dulcet'	
'Eady's Magnum'	partial tip
'Early Bird Red'	
'Elan'	
'Elektra'	partial tip
'Elita 20 Marculesti'	
'Ellis Bitter'	partial tip
'Ellison's Orange'	partial tip
'Emperor Alexander'	partial tip
'Empire'	
'Egri Piros'	
'Eve's Delight'	
'Exeter Cross'	
'Faversham Creek'	partial tip
'Filippa'	
'Fisher Fortune'	partial tip
'Florina'	
'Fortune' (English)	partial tip
'Fuji Lynd-spur'	
'Gascoyne's Scarlet'	partial tip
'Gala Beauty'	
'Gallia Beauty'	
'Genet Moyle'	
'Geneva'	
'George Cave'	
'George Cave Sport'	partial tip
'George Stone'	
'Ginger Gold'	partial tip and partial spur
'Gladstone'	partial tip
'Gloria Mundi'	
'Gloriosa'	

'Gold Canel'	
'Golden Noble'	partial tip
'Golden Precoce'	
'Golden Russet'	
'Golden Uralian'	
'Goldjon'	
'Goldjon Carlone (No. 35F)'	
'Granerly'	partial tip & semi-spur
'Granny Smith'	partial tip
'Gravenstein'	partial tip & partial spur
'Gravenstein, Washington Strain'	partial tip & partial spur
'Greasy Pippin'	
'Greensleeves'	partial tip
'Grenadier'	
'Hambledon Deux Ans'	partial tip
'Hanners Jumbo'	
'Harrison' (Cider)	partial tip & partial spur
'Harry Masters Jersey'	
'Harvey'	partial tip
'Herefordshire Beefing'	
'Heyer #2'	
'Hillieri'	
'Hopa'	
'Houblon'	partial tip
'Hunter Kinkead Spy'	partial tip
'Inducoa No. 1'	
'Ingall's Pippin'	partial tip
'Irish Peach'	
'Isaac Newton's Tree'	partial tip
'J. Dolling's Bonsai'	partial tip & semi-spur
'Jacks Longkeeper'	
'Jewel'	
'Johannes Bottner'	
'Jonagram'	
'Jonsib Crab'	
'Juniper'	partial tip
'Karen Schneider'	
'Kensai'	
'Kitaika Zolotaia Ranniaia'	

'Katja'	
'Kensib'	
'Kerry Pippin'	
'King's Acre Pippin'	partial tip
'Kingsmere'	
'Kinkead Red Spy'	partial tip
'Köningin Sophiensapfel'	
'Kummer Cox'	
'Kuotesaho'	
'La Nationale'	partial tip
'Lady Lambourne'	partial tip
'Lady Sudeley'	partial tip
'Langley Pippin'	
'Lavina'	partial tip
'Lawyer Nutmeg'	partial tip
'Laxton's Early Crimson'	partial tip
'Laxton's Fortune'	partial tip
'Laxton's Herald'	
'Leonie de Sonnaville'	partial tip
'Lindel'	
'Ljaljce'	
'Lodi'	partial tip
'Longfield'	
'Loop Spy'	partial tip
'Lord Hindlip'	
'Lord Lambourne'	partial tip
'Luxemburger Reinette'	partial tip
'Lyman's Large Summer'	
'Mabbott's Pearmain'	partial tip
'Macrocarpa'	
'Maclean's Favourite'	
'Madresfield Court'	
'Maggie Sinclair'	partial tip
'Maiden's Blush'	
'Maigold Schin-H-6'	
'Margaret Taylor'	partial tip
'Marie Doudou'	partial tip
'Maude'	
'Melon'	
'Mere de Ménage'	partial tip
'Merton Ace'	

'Merton Knave'	
'Merton Reinette'	partial tip
'Messire Jacques'	
'Michinoku'	partial tip
'Minister Von Hammerstein'	
'Miron Sacharanij'	
'Monmouth Beauty'	
'Morden 358'	
'Morden 360'	
'Morden 363'	
'Nasona'	
'Niedzwetzkyana'	
'Never Blight'	
'New German'	partial tip
'Newtown Pippin'	partial tip
'Norfolk Beauty'	partial tip
'Norfolk Royal'	partial tip
'Norson'	
'Northern Spy'	partial tip
'Northwood'	
'Nottingham Pippin'	
'Nouvelle Europe'	
'Novamac'	mostly tip some spurring
'Novaspy'	
'Nubeena'	
'NY 49-407'	partial tip & semi-spur
'Okanagan'	
'Old Golden Russet'	partial tip
'Old Liberty'	partial tip some spurring
'Orin'	
'Padley's Pippin'	
'Parkland'	
'Patterson'	
'Paulared'	
'Peachblow'	
'Pearl'	partial tip
'Pearmain, Adam's'	partial tip
'Pearmain, Autumn'	partial tip
'Pearmain, Cherry'	

'Pearmain, Claygate'	partial tip
'Penny Loaf'	partial tip
'Pépin Shafrannyi'	partial tip
'Pepinka Litowska'	
'Peypring Cerueuk'	
'Piltsamasskoe Zimnee'	partial tip
'Pink Delight'	
'Pink Lady'	partial tip
'Pink Parfait'	
'Pink Sparkle'	partial tip & semi-spur
'Pomme Cloche'	
'Pomme de Commerce'	partial tip
'Pomme du Viez'	partial tip
'Pomme Framboise'	
'Pommier Llorca'	
'Potter Cox'	
'President Van England'	
'Priam'	
'Prime Gold Van Well'	
'Pushkinskakya Ploskaya'	
'Queen'	partial tip
'Queen Cox'	
'Red Australian Rome Beauty'	
'Red Beauty of Bath'	
'Red Blenheim (Passey)'	partial tip
'Red Blenheim (Wastie)'	partial tip
'Red Dougherty'	
'Red Ellison'	partial tip
'Red Fortune'	partial tip
'Red George Cave'	partial tip
'Red Joaneting'	
'Red Prairie Spy'	partial tip & semi-spur
'Red Sudeley'	partial tip
'Red Stayman'	
'Redfree'	
'Redford'	
'Reinette Favalle'	
'Reinette d'Armorique'	
'Reinette de Cuzy'	
'Reinette des Vergers'	
'Reinette Ontz'	partial tip

'Reinette Rouge Etoilée'	partial tip
'Repinaldo do Liebana'	
'Rescue'	
'Richland Crab'	
'Robin Pippin'	partial tip
'Rossoshanskoje Polosatoje'	
'Round Longshore'	
'Rozovoye Priewoskhodnoye'	
'Ruhm aus Kirchwarder'	
'Russet Lambourne'	partial tip
'Saint Edmund's Pippin'	partial tip
'Salute'	
'Sam Young'	partial tip
'Sauvenir'	partial tip
'Sayaka'	
'Scarlet'	
'Scarlet Gravenstein'	
'Scarlet Nonpareil'	
'Scarlet O'Hara'	partial tip
'Scarlet Staymared'	
'Sensyu' ('Senshu' or 'Senchu')	
'Shenandoah'	
'Sheri Myron'	
'Shizuka'	
'Sicora'	partial tip & semi-spur
'Sikora (Type 1)'	
'Silver Cup'	
'Slavyanka'	partial tip
'Spasserud'	
'Starking Giant'	
'Stark's Jumbo'	
'Striped Beauty'	
'Stroming'	
'Summer Bellflower'	
'Summer Rambo'	partial tip
'SunCrisp'	
'Swardlands'	
'Sweet Alford'	
'Sweet Caroline'	
'Tasma'	
'Tawria'	partial tip & semi-spur

'Taylor's'	
'Teign Harvey'	
'Tentation'® ('Delblush'™)	
'Tim's Early'	
'Tribu'	
'Tribu Seklandzis'	
'Tydeman's Early'	partial tip
'Tydeman's Early Spur Type'	partial tip
'Tydeman's Michaelmas Red'	partial tip
'Tydeman's Red'	
'Uljanisceva'	
'Undine'	
'Underleaf'	
'Uralskoje Nalivnoje'	
'Vandevere'	
'Wagener'	
'Wealthy'	partial tip
'Webster'	
'Wemmershoek'	
'Westland'	
'William Sim'	
'Williams Early Red'	
'Winston'	
'Winston Sport'	
'Withington Fillbasket'	
'Worcester Pearmain'	partial tip
'Wright'	
'Xanthocarpa NA3604'	
'Yellow Arkad'	
'Yellow Newtown Pippin'	partial tip
'Zlatna Resistentna'	

Any additions or correction would be welcome so that we can all stay abreast with developments in the field of apple growing
 Compiled by:

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*Listed in *Fruit, berry and nut inventory*, Second Edition, Seed Saver Publications,
3076 North Winn Road, Decorah, Iowa 52101

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