

# List of companion plants

This is a list of **companion plant** relationships. Many more are in the list of beneficial weeds.

The purpose of this list is to provide plants that assist in the growth of others, be it attracting beneficial insects, naturally regulating pests, repelling harmful insects, providing nutrients, part of a biological pest control program, and in some cases simply a shaded microclimate or climbing support.

## Vegetables

Vegetables							
Common name	scientific name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
<i>Alliums</i>	<i>Allium</i>	fruit trees, nightshades (tomatoes, peppers, potatoes, etc), brassicas (cabbage, broccoli, kohlrabi, etc) carrots	carrots		slugs, aphids, carrot fly, cabbage worms <sup>[1]</sup>	beans, peas, parsley	<b>Alliums include onions, garlic, leeks, shallots, chives, and others</b>
<b>Asparagus</b>	<i>Asparagus officinalis</i>	Tomatoes	Aster Family flowers, Dill, Coriander, Tomatoes, Parsley, Basil, Comfrey, Marigolds			Onion, Garlic, Potatoes	Marigolds will deter beetles.
<i>Brassicas</i>	<i>Brassica</i>		geraniums, dill, alliums (onions, shallots, garlic, etc), rosemary, nasturtium, borage			mustards, nightshades (tomatoes, peppers, etc)	<b>Brassicas are a family of species which include broccoli, cabbage, brussels sprouts, kohlrabi, and cauliflower.</b>
<b>Beans,</b>	<i>Phaseolus</i>	Corn (see Three Sisters), Spinach, lettuce, rosemary, summer savory, dill, carrots, brassicas, beets, radish, strawberry and cucumbers	Eggplant, Summer savory		California beetles	Tomatoes, chili peppers, sunflowers, alliums (onions, garlic, etc), kales (cabbage, broccoli, etc)	Hosts nitrogen-fixing bacteria, a good fertilizer for <i>some</i> plants, too much for others

<b>Beets,</b>	<i>Beta Vulgaris</i>	lettuce, kohlrabi, onions and brassicas	Catnip, Garlic, Mint			Runner or pole beans	Good for adding minerals to the soil through composting leaves which have up to 25% magnesium. Runner or pole beans and beets stunt each other's growth.
<b>Broccoli</b>	<i>Brassica oleracea</i>		geraniums, dill, alliums, rosemary, nasturtium, borage			mustards, Tomatoes, peppers	Rosemary repels cabbage fly, geraniums trap cabbage worms, same general companion profile as all brassica (cabbage, kohlrabi, brussels sprouts, cauliflower, etc)
<b>Cabbage</b>	<i>Brassica oleracea</i>		geraniums, dill, alliums, rosemary			mustards, Tomatoes, peppers strawberries, and pole/runner beans	Rosemary repels cabbage flies, geraniums trap cabbage worms, same general companion profile as all brassica (cabbage, kohlrabi, brussels sprouts, cauliflower, etc)
<b>Carrots</b>	<i>Daucus carota</i>	Tomatoes, Alliums (onions, chives, etc), lettuce	alliums (leeks, shallots, etc), rosemary, wormwood, sage, beans, flax	assassin bug, lacewing, parasitic wasp, yellow jacket and other predatory wasps		Dill, parsnip, radish	Tomatoes grow better with carrots, but may stunt the carrots' growth. Beans (which are bad for tomatoes) provide the nitrogen carrots need more than some other vegetables. Aromatic companion plants repel carrot fly. Sage, rosemary, and radishes are recommended by <i>some</i> as companion plants, but listed by others as incompatible. Alliums inter-planted with carrots confuse onion and carrot flies. For the beneficial insect-attracting properties of carrots to work, they need to be allowed to flower; Otherwise, use the wild carrot, Queen Anne's Lace, for the same effect. Flax produces an oil that may protect root vegetables like carrots from some pests.
<b>Celery,</b>	<i>Apium graveolens</i>		Cosmos, Daisies, Snapdragons			corn, Aster flowers, these can transmit the aster yellows disease	

<b>Corn / Maize</b>	<i>Zea mays</i>	beans	Sunflowers, legumes (beans, peas, soybeans etc), peanuts, cucurbits (squash, cucumbers, melons, etc), amaranth, white geranium, lamb's quarters, morning glory, parsley, and potato			Tomato, Celery	Provides beans with a trellis, is protected from predators and dryness by cucurbits, in the three sisters technique
<b>Cucumber</b>	<i>Cucumis Sativus</i>		Nasturtiums, radishes, marigolds, sunflowers peas, beets, carrots, and Dill	Beneficial for ground beetles		Tomato, Sage	
<b>Common name</b>	<b>scientific name</b>	<b>Helps</b>	<b>Helped by</b>	<b>Attracts</b>	<b>Repels / Distracts</b>	<b>Avoid</b>	<b>Comments</b>
<b>Eggplant or Aubergine</b>	<i>Solanum melongena</i>	Beans, Peppers	Marigolds, tarragon, mints				Marigolds will deter nematodes.
<b>Leek</b>	<i>Allium ampeloprasum v. porrum</i>	Celery, apple trees	carrots		cabbage worms, aphids, carrot fly, others	Legumes (beans, peas, etc)	Same companion traits as all alliums (onions, garlic, shallots, chives, etc)
<b>Lettuce</b>	<i>Lactuca sativa</i>		Radish, Kohlrabi, beans, carrots			celery, cabbage, cress, parsley	Mints (including hyssop, sage, and various "balm") repel slugs, a bane of lettuce and cabbages
<b>Mustard</b>	Brassicaceae, <i>Sinapis alba</i>	Cabbage, cauliflower, radish, brussels sprouts, turnips			various pests		Same general companion profile as all brassica (cabbage, kohlrabi, brussels sprouts, cauliflower, etc)
<i>Nightshades</i>	Solanaceae		carrots, alliums, mints (basil, oregano, etc)			beans, black walnuts, corn, fennel, dill, brassica (broccoli, cabbage, cauliflower, etc)	<b>Nightshade plants include tomatoes, tobacco, chili peppers (including bell peppers), potatoes, eggplant, and others</b>
<b>Common name</b>	<b>scientific name</b>	<b>Helps</b>	<b>Helped by</b>	<b>Attracts</b>	<b>Repels / Distracts</b>	<b>Avoid</b>	<b>Comments</b>

<b>Peppers</b>	Solanaceae, <i>Capsicum</i>	themselves, marjoram	tomatoes, geraniums, petunias			beans, kale (cabbage, brussels sprouts, etc)	Pepper plants like high humidity, which can be helped along by planting with some kind of dense-leaf or ground-cover companion, like marjoram and basil; they also need direct sunlight, but their fruit can be harmful by it...pepper plants grown together, or with tomatoes, can shelter the fruit from sunlight, and raises the humidity level.
<b>Onion</b>	<i>Allium cepa</i>	Tomatoes, Kales (broccoli, cabbage, etc)	Carrots		aphids, carrot fly, other pests	beans, peas, parsley	Same companion traits as all other alliums (chives, garlic, shallots, leeks, etc)
<b>Potato</b>	<i>Solanum tuberosum</i>		Horseradish			Sunflower, Tomato, Cucumber	Horseradish increases the disease resistance of potatoes
<b>Pumpkin Squash</b>	<i>Curcubita spp</i>	corn, beans	Buckwheat, catnip, tansy, radishes	Spiders, Ground Beetles			Flea Beetles are warded off by radishes, Curcubita can be used in the three sisters technique
<b>Spinach</b>	<i>Spinacia oleracea</i>		Peas, Beans				The peas and beans provide natural shade for the spinach
<b>Tomatoes</b>	<i>Solanum lyopersicum</i>	roses, peppers, asparagus	basil, oregano, parsley, carrots, marigold, Alliums, celery, Geraniums, Petunias, Nasturtium, Borage, any type of onion or chives		asparagus beetle	Black walnut, corn, fennel, peas, dill, potatoes, beetroot, brassicas (kohlrabi, cabbage, etc), rosemary	Black walnuts inhibit tomato growth, in fact they are allelopathic to all other nightshade plants (chili pepper, potato, tobacco, petunia) as well, because it produces a chemical called juglone. Dill attracts tomato horn worm.

## Herbs

Herbs							
Common name	scientific name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
<b>Basil</b>	<i>Ocimum basilicum</i>	tomato, peppers, oregano, asparagus, petunias	chamomile, anise	butterflies	asparagus beetle, mosquitoes and flies	common rue, sage, rosemary (basil will kill your rosemary)	is said to make tomatoes taste better, chamomile and anise are supposed to increase the essential oils in many herbs like basil

<b>Borage</b>	<i>Borago officinalis</i>	Almost everything, especially strawberry, cucurbits (cucumber, gourds), tomatoes		Predatory insects, honeybees	many pests		Borage is the magic bullet of companion plants
<b>Caraway</b>	<i>Carum carvi</i>	Strawberries		Parasitic wasps, parasitic flies			
<b>Chamomile</b>	<i>Matricaria recutita</i>	Basil, Wheat, Onion, Cabbage, Cucumber		Hoverflies, wasps		Growing near herbs will increase their oil production.	
<b>Chervil</b>	<i>Anthriscus cerefolium</i>	Radish, lettuce, broccoli			aphids		loves shade, fortunately it grows well with shade-tolerant food plants; will make radishes grown near it taste spicier
<b>Cilantro / Coriander</b>	<i>Coriandrum sativum</i>	spinach	beans, peas	tachinid fly	aphids, spider mites and potato beetle		
<b>Chives</b>	<i>Allium schoenoprasum</i>	Apples, carrots, tomatoes, brassica (broccoli, cabbage, mustard, etc), many others	carrots		cabbage worms, carrot fly, aphids	beans, peas	Same companion traits as all alliums (onions, garlic, shallots, leeks, etc)said to prevent apple scab after 3 years planting at base of apple trees
<b>Common name</b>	<b>scientific name</b>	<b>Helps</b>	<b>Helped by</b>	<b>Attracts</b>	<b>Repels / Distracts</b>	<b>Avoid</b>	<b>Comments</b>
<b>Dill</b>	<i>Anethum graveolens</i>	Cabbages, Corn, Lettuce, Onions, Cucumbers		Hoverflies, Wasps, Tomato Horn Worms, honeybees, Ichneumonid Wasps	Aphids, spider mites, squash bugs, cabbage looper	carrots, tomatoes	one of the few plants said to grow with fennel
<b>Fennel</b>	<i>Foeniculum vulgare</i>	Dill	Dill	ladybugs, syrphid fly, tachinid fly	aphids	Almost everything	Fennel is allelopathic to most garden plants, inhibiting growth, causing to bolt, or actually killing many plants
<b>Garlic</b>	<i>Allium sativum</i>	Apple trees, Pear trees, Roses, Cucumbers, Peas, Lettuce, Celery			Aphids, cabbage looper, ants, rabbits, cabbage maggot		Deters rabbits, same companion traits as all alliums (onions, chives, shallots, leeks, etc)

<b>Hemp</b>	<i>Cannabis sativa</i> <i>L. subsp. sativa</i>	Brassica (cabbage, brussels sprouts, other kales)					Repels many types of beetles which attack cabbages.
<b>Hyssop</b>	<i>Hyssopus officinalis</i>	Cabbage, grapes		honeybees, butterflies	Cabbage moth larvae, Cabbage Butterflies		Stimulates growth of grapes.
<b>Lovage</b>	<i>Levisticum officinale</i>	Almost all plants	beans	Ichneumonid Wasps, ground beetles (good)		rhubarb	Is thought to improve the health of almost all plants, like borage and geraniums, is considered a "magic bullet" of companion planting
<b>Oregano</b>	<i>Origanum vulgare</i>	Tomatoes, peppers, many other plants	basil		aphids		provides ground cover and much-needed humidity for pepper plants if allowed to spread among them
<b>Common name</b>	<b>scientific name</b>	<b>Helps</b>	<b>Helped by</b>	<b>Attracts</b>	<b>Repels / Distracts</b>	<b>Avoid</b>	<b>Comments</b>
<b>Peppermint</b>	<i>Mentha piperita</i>	Brassica (cabbage, kholrabi, broccoli, and the other kales)			cabbage fly, ants, cabbage looper		Repels cabbage flies, has same general companion properties as other mints
<b>Rosemary</b>	<i>Rosmarinus officinalis</i>	sage, cabbage, beans, carrots			bean beetle	Basil	Deters cabbage flies, repels many bean parasites
<b>Sage</b>	<i>Salvia officinalis</i>	rosemary, cabbage, beans, carrots		honeybees, cabbage butterfly	cabbage flies, carrot fly, black flea beetle, cabbage looper, cabbage maggot		Deters cabbage flies, repels many bean parasites
<b>Southernwood</b>	<i>Artemisia abrotanum</i>	Fruit trees					Controls cabbage moths and malaria mosquitoes.
<b>Spearmint</b>	<i>Mentha spicata</i>				ants, aphids		Controls ants and aphids, has same general companion properties as other mints.
<b>Summer Savoury</b>	<i>Satureja hortensis</i>	Green beans, onions,					also delays germination of certain foul herbs
<b>Tansy</b>	<i>Tanacetum vulgare</i>	beans, cucurbits (cucumbers, squash, etc), corn, roses		honeybees	flying insects (Ichneumonid Wasps), Japanese beetles, striped cucumber beetles, squash bugs and ants		Is reputed to generally repel insects (except for nectar-eating types). This herb should not be consumed, as it is quite toxic.

<b>Tarragon</b>	<i>Artemisia dracunculus</i>	Everything, but especially eggplant					Its scent is disliked by most pests, and this plant is also thought to have Nurse Plant properties, enhancing the growth and flavor of crops grown with it.
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## Flowers

Flowers							
Common Name	Latin Name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
<b>Geraniums</b>	<i>Pelargonium</i> spp.	Roses, tomatoes, peppers, grapes			leafhoppers, Japanese beetles		A trap crop, attracting pests away from roses and grape vines, distracts beet leafhoppers, carrier of the curly top virus, away from Solanaceous plants like tomatoes, peppers, eggplant, and tobacco
<b>Lupin</b>	<i>Lupinus</i>	Cucurbits, brassica, lettuce, rosemary, dill, strawberry	summer savory	Honeybees		tomatoes and other solanicae	This wildflower is actually a legume, hosting bacteria that fixes nitrogen in the soil, fertilizing it for neighboring plants
<b>Marigold</b>	Asteraceae <i>Calendula</i> <i>Tagetes</i>	most plants, especially tomatoes and peppers, cucurbits (cucumbers, gourds, squash), brassicas (broccoli, kale, cabbage)			nematodes, beet leaf hoppers, other pests		Marigolds are a wonder-drug of the companion plant world, invoking the saying "plant them everywhere in your garden". French marigolds produce a pesticidal chemical from their roots, so strong it lasts years after they are gone. Mexican marigolds do the same, but are so strong they will inhibit the growth of some more tender herbs. Certain Varieties of marigolds ( <i>Tagetes</i> ) can help manage eelworms (Root-knot nematode) when planted the year before [2]. <i>Tagetes</i> has also been found effective against perennial weeds such as <i>Ranunculus ficaria</i> (Celandine), <i>Aegopodium podagraria</i> (Ground elder), <i>Glechoma hederacea</i> (Ground ivy), <i>Agropyron repens</i> (Couch grass), <i>Convolvulus arvensis</i> (Field bindweed), <i>Equisetum arvense</i> (Field/Common Horsetail) and other 'starchy' weeds.
<b>Petunia</b>	<i>Petunia x hybrida</i>	cucurbits (squash, pumpkins, cucumbers), asparagus			leafhoppers, Japanese beetles, aphids, asparagus beetle		Is a trap crop almost identical to geraniums in function

<b>Nasturtium</b>	<i>Tropaeolum majus</i>	Many plants, especially cucurbits (melons, cucumbers, gourds), beans, tomatoes, apple trees, brassicas (broccoli, cabbage, etc), radish		predatory insects	aphids, cabbage looper, squash bug, white fly, cucumber beetles	radish, cauliflower	Both work as trap crops for aphids, is among the best at attracting predatory insects
<b>Sunflower</b>	<i>Helianthus annuus</i>	corn, tomatoes			aphids		Was grown as a companion for corn(maize) before modern Europeans arrived in the Americas, supposedly increases their production, ants herd aphids onto sunflowers, keeping them off neighboring plants
<b>Tansy</b>	<i>Tanacetum vulgare</i>	cucurbits (cucumbers, squash, etc), raspberries and relatives, roses, corn			sugar ants, Japanese beetles, cucumber beetles, squash bugs, mice		Toxic to many animals, don't plant it where livestock browse
<b>Yarrow</b>	<i>Achillea millefolium</i>	many plants		predatory wasps, ladybugs, hoverflies, damselbugs			May increase the essential oil production of some herbs. Also improves soil quality, use the leaves to enrich compost, or as mulch.

## Other

Other							
Common Name	Latin Name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
<b>Alfalfa</b>	<i>Medicago sativa</i>	Cotton		assassin bug, big-eyed bug, Ladybug, parasitic wasps	Lygus bugs		Used by farmers to reduce cotton pests, a good crop to improve soil; fixes nitrogen like beans do. Also breaks up hardpan and other tough soil.

## Trees

### Apple

APPLE TREES							
Common Name	Latin Name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
Apple	Malus domestica		Clover, Chive, Garlic, Leek, Nasturtium, Southernwood, Daffodils, Comfrey			Cedar because of apple-cedar rust	

## Apricot

APRICOT TREES							
Common Name	Latin Name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
Apricot	Prunus armeniaca						A fungus that peppers are prone to can infect apricot trees causing a lot of harm.

## Walnut

WALNUT TREES							
Common Name	Latin Name	Helps	Helped by	Attracts	Repels / Distracts	Avoid	Comments
Walnut	Juglans						Black walnut is harmful to the growth of all nightshade plants, including <i>Datura</i> or Jimson weed, eggplant, mandrake, deadly nightshade or belladonna, capsicum (paprika, chile pepper), potato, tobacco, tomato, and petunia.

## See also

- List of beneficial weeds
- List of repellent plants
- List of pest-regulating plants
- Push-pull technology; (*pest control strategy for maize and sorghum*)
- Biological pest control
- Sustainable agriculture
- Sustainable landscaping
- Sustainable gardening

## References

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# Article Sources and Contributors

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