## Companion Planting

## A guide to poison-free gardening

Did you know that tomatoes and basil do great together in the garden as well as in the cooking pot? Many beths are ratural insect repellants that can help keep your garden toug-free and reduce or eliminate the need for potentially harmful persicioles. By usings a technique called compassion planting, many gardeness are discovering that they can discoverage garden pests without harming helpful insects such as ladybugs and bees. Some hetch though their done or root scereions will deter pests naturally. An added bonus are fragman herbs that will season the fruits of your labors.



Wormwood - Keeps animals out of the garden when planted as a border.	Rosemary - Companion plant to cabbage, beans, carrots, and sage. Deters cabbage moths, bean beetles and carrot flies.	Gopher Purge - Deters gophers and moles.	Catnip - Deters flea beetles (and kitties LOVE it!)
Thyme - Deters cabbage worms.	Mint - Deters white cabbage moths, and improves the health of cabbages and tomatoes.	Garlic - Plant near roses to repel aphids.	Caraway - Good for loosening compacted soil.
Tansy - Plant with fruit trees, roses, and raspberries. Deters flying insects, Japanese beetles, striped cucumber beetles, squash bugs, and ants	Marjoram - Improves flavor of all vegetables.	Dill - Improves growth and health of cabbage. Do not plant near carrois.	Borage - Companion plant for tomatoes, squash and strawbernes. Deters formato worms.
Summer Savory - Plant with beans and onions to improve growth and flavor. Discourages cabbage moths.	Lovage - Improves flavor and health of most plants.	Chives - Improves growth and flavor of carrots	Bee Balm - Plant with tomatoes to improve growth and flavor
Sage - Companion plant with rosemary, cabbage, and carrots to deter cabbage moths, beetles, and carrot flies. Do not plant near cucumbers.	Hyssop - Companion plant to cabbage and grapes, deters cabbage moths. Do not plant near radishes.	Chervil - Companion to radishes for improved growth and flavor	Bay Leaf - A firsh bay leaf in each storage container of beans or grains will deter weevils and moths.
Rué - Deters Japanese beetles in roses and raspberries.	Horseradish - Plant in potato patch to keep away potato bugs.	Chamomile - Improves flavor of cabbages and onions.	Basil - Plant with tomatoes to improve growth and flavor and to repel flies and mosquitoes. Do not plant near rue.

(Taken from Herbs for Your Kitchen by Taylor's Herb Gardens, Inc.)

Turnip Engli	Cucumber
English Pea	nber
Irish Potato	

## Useful Gardening Tips

## Which manure for what plant?

Garden Type	Type of Manure	When to Apply
ntal	Horse or Cow	Early Spring
potato etc)	Horse or Cow	Fall
Acid Lovers- azaleas, blueberry etc Cow or Horse	Cow or Horse	Early Fall
Veggies	Chicken, Horse, Cow Spring, Fall	Spring, Fall

had! Another plus is the tannic acid in the tea helps the plants retain moisture making this a good choice for other plants too. This works almost as well as our Golden Harvest Natural Fertilizer does for violets African violets: Use chamomile tea to produce the best blooms they have ever

To make: Pour 2 cups boiling water over 1/4 cup chamomile blossoms. Let steep until cool and strain bottle. Use as needed. This keeps for about a week before going rancid. Chamomile blossoms can be purchased at health food stores and usually grocery stores. Use as you would any African violet

Brassicas: Keeping the soil pH around 7.0 to prevent club root disease

to heal them Chapped hands: Make a very strong tea of spearmint leaves. Rub on your hands

control bacteria. the soda provides the flowers with carbohydrates (energy) and the bleach acts to Cut flowers: To make them last longer try this: Combine 8 ounces of water with 8 ounces of gingerale or clear soda (7-Up) and 1/2 teaspoon bleach. The sugar in

Ferns Alling? A bit of caster oil can help save your ferns: add 1 tablespoon of castor oil, 1 tablespoon of mild shampoo to a quart of warm water. Treat each fern with a 4 ounces of the tonic

eating grow them from sets Onions: To raise onions for winter storage grow them from seeds. For summer

instead of a permanent marker they will last much longer! Plant Markers: If you write on your wooden or plastic plant markers with pencil

alternative pine needles may be used instead of comfrey leaves with them to prevent scab. Also keeping the soil for your potato patch with a pH of 7 or above (alkaline) to prevent scab. As an Potato scab: When planting your potato sets put some wilted comfrey leaves in

the freshly cut parts with sulfur to prevent rotting Rhizome or tuber rot: When dividing perennials with rhizomes or tubers dust

## Natural Rooting Hormone:

Rooting hormones available as liquids or powders contain a synthetic form of indolebutyric acid (IBA). IBA in it's natural state is a plant hormone or growth regulator. You can make your own rooting hormone from the ever versatile

effectiveness can vary by the amount of twigs you use, the level of IBA that is present when you take your cuttings and the amount of time that you soak willow tree. Willow contain a high concentration of IBA however the

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Any willow (salix) trees or shrub species will work

Other types of cuttings may be rooted directly in a jar of the water. You will need to make a fresh batch of willow water for each use. which you have placed your cuttings. Two applications should be sufficient in overnight. Another method is to water your soil with willow water into water. Soak for 24-48 hours. You will then use the water to soak your cuttings pieces. Put them in a glass or plastic container with a few inches of lukewarm Cut a good handful of willow twigs. Then cut them into two to three inch

### Plant Willows: Why?

amount of atmospheric carbon dioxide! Willows consume carbon as they grow. This means they effectively reduce the

for pollinating insects when little else is available to them. When the catkins open in early spring they provide an abundant food source

Willows can be planted as a sound barrier, to filter waste and as a wild bird

at the end of the season. A good excuse not to rake them up Willows are also humus builders for the soil provided from their leaves falling

### Little Bits of Trivia

# Monarch Butterflies and Milkweed Plants

do make the caterpillar poisonous to most predators. Because it eats milkweed The growing larvae (caterpillars) eat milkweed leaves. These leaves contain toxins-poisonous chemicals. These toxins don't hurt the caterpillar, but they the monarch butterfly depends on this self-defense system provided by the leaves as a caterpillar, the monarch butterfly is also poisonous. The survival of

Sap from milkweed was used by pioneers as a cure for warts

insulate moccasins The airborne fluffy parachute of the seed was used by Native Americans to

pioneers The dried empty seed pods were used as Christmas tree decorations by early

milkweed fluff for use in military life jackets during World War II The boys and girls from Wisconsin schools collected 283,000 bags of

It is used as an indicator of ground-level ozone air pollution

#### BIRDS!

Woodpeckers are voracious ant eaters. You may see them also pick up ants in their beaks and crush them on their feathers. What are they doing this for? Crushing the ants bodies releases tannic acid which in turn protects the bird

Hummingbirds, those wonderful creatures, favor brilliant red and orange flowers the most. Following are some of their favorite flowers:

- attracts butterflies too like it's name hollyhock, jewelweed, bee Balm (monarda), phlox, daylilies, cardinal flower, lupines, penstemons, butterfly weed-which is very pretty and Perennials: Coral Bells (heuchera), Indian paintbrush, columbine,
- red salvia, verbena, zinnias, lantana Annuals: 4 O'clocks, cleome, petunias, impatiens, scarlet runner bean,
- sharon, flowering quince, trumpet honeysuckle Shrubs and Vines: Butterfly bushes, creeping trumpet vine, rose-oi-

in color and have strong fragrance. bees only fly during the daytime. Bees are attracted to flowers that are bright Did you know that the flowers bees love usually close at night? The reason is

100.000 plant species would cease to exist! Bees are responsible for the existence of many flowers. without bees over

coming rainfall. Bees, feeling the rise in humidity, will usually go back in their hive to avoid a

### FLOWERS!!!

massive trellis. If you are ever in Tombstone this would be worth seeing planted in 1855 at the Rose Tree Inn now covers over 8,000 square feet on a The largest rose in the world resides in Tombstone, Arizona. Rosa Bankiae

The most expensive flowers: a hyacinth bulb from a variety called "king of Great Britain" sold in 1774 for L100. This equates to over 200,000 dollars in today's economy!

A scarlet and white tipped tulip (Semper augustus) sold for the amount of 5,500 florins. This would give it a current value of 70,000 dollars today!

### TREES!!!

so many eras! It resides in the Wheeler Peak area of Nevada found is 4,900 years old. What an amazing specimen to have survived through The oldest living tree is the bristlecone pine (pinus aristata). The oldest one

persummon. resembles its' ancestor and is also known as the "maidenhair" tree. Possibly one of the first fruit trees the ginko produces an edible fruit that is similar to a The gingko tree dates back to the Mesozoic era. The same tree today closely

The fastest growing tree in the world is the acacia. Certain varieties can grow as much as 2 1/2 feet a month, which translates into a little over an inch a day! Fast and furious the acacia does not live much longer than 30 years.

harvesting" as it has two layers of bark It comes from the cork oak which is the only tree that can survive "bark Ever wonder where that cork in the wine bottle comes from?

### BEEFY TOMATO

The biggest tomato on record weighed in at a hefty 7 pounds 12 ounces. It was grown by Gordon Graham of Oklahoma.

### Did you know?

Slugs are hermaphrodites: they all have male and female reproductive systems. Yes, they can mate with themselves!!! They can stretch to 20 times their normal length enabling them to squeeze through openings to get at food.

bindweed, quite alive! Cinch bugs overwinter by producing an antifleeze chemical that protects their innards from becoming fozen. A plant that everyone detests was found in an area where several feet of rock and plastic sheeting were removed. This area had been unlouched for at least 20 years. At the bottom was pure white

Tall grass: The giant bamboo originating from Asia can reach heights of 50 feet! It is a true grass.

weight. They also ingest soil and organic matter equal to the amount of their body weight each day. Earth Worms: Have the power to move stones that weigh 50 times their own

#### companion planting through out the the growth rate and flavor of other alternately repel (anti-feedents) and/or their roots, flowers, leaves etc. that can Many plants have natural substances in

organism can create food for another, meaning symbiotic relationships all around animals, and other organisms into every ecosystem so there is no waste. The death of one job. Nature integrates a diversity of plants, to your landscape, allowing nature to do its planting helps bring a balanced eco-system varieties. Experience shows us that using some situations they can also help enhance attract insects depending on your needs. In pest management, in essence companion landscape is an important part of integrated

for! Plants with open cup shaped flowers are the most popular with beneficial insects. that are native to your area so the insects you want to attract already know what to look interplanting in your flower or vegetable beds where you have specific needs. Use plants that can be used for companion plants. Be open to experimenting and find what works for you. Some possibilities would be using certain plants as a border, backdrop or By using companion planting, many gardeners find that they can discourage harmful pests without losing the beneficial allies. There are many varieties of herbs, flowers, etc.

environment. Have fun, let your imagination soar. There are many ways you can find to incorporate these useful plants in your garden, orchard, flower beds etc. Companion planting can combine beauty and purpose to give you an enjoyable, healthy

Following is a basic plant guide (with some tips) to help you "work in harmony with

versa. Experimenting is the only way we can gain new insight for our own individual work differently in various situations or not at all. Don't let that discourage you from giving the ideas a try! What works for some may not work for others and vice Note: this guide is not intended to solve garden problems as the suggestions may

### PLANT GUIDE

pest and disease free. It needs only natural rainfall to survive can improve just about any soil! Alfalfa has the ability to break up hard clay soil and can even send its' roots through rocks! Now that is a tenacious plant! Alfalfa is practically magnesium, phosphorous and potassium. Withstands droughts with it's long taproot and ALFALFA: Perennial that roots deeply. Fixes the soil with nitrogen, accumulates iron,

ground beetles. Eat the young leaves in salads com, it's leaves provide shade giving the corm a rich, moist root run. Host to predatory AMARANTH: A tropical annual that needs hot conditions to flourish. Good with sweet

it is also said to repel aphids. Deters pests from brassicas by camouflaging their odor ANISE: Licorice flavored herb, good host for predatory wasps which prey on aphids and

Improves the vigor of any plants growing near it. Used in ointments to protect against bug stings and bites. Good to plant with coriander.

## ARTEMISIAS: See Womnwood

repelling thrips. It is said to repel flies and mosquitoes. Do not plant near rue BASIL: Plant with tomatoes to improve growth and flavor. Basil can be helpful in

insecticide dust. A good combo: Bay leaves, cayenne pepper, tansy and peppermint. BAY LEAF: A fresh leaf bay leaf in each storage container of beans or grains will deter weevils and moths. Sprinkle dired leaves with other deterrent herbs in garden as natural

For ladybug invasions try spreading bay leaves around in your house anywhere they are getting in and they should leave.

combo. Keep beans away from the alliums users like corn and grain plants. French Haricot beans, sweet corn and melons are a good BEANS: All bean enrich the soil with nitrogen fixed form the air. In general they are good company for earrots, brassicas, beets, and cucumbers. Great for heavy nitrogen

powdery mildew Great for attracting beneficials and bees of course. Pretty perennial that tends to get BEE BALM (Oswego, Monarda): Plant with tomatoes to improve growth and flavor

beans with the exception of runner beans. them. Companions are lettuce, kohlrabi, onions and brassicas. They are also beneficial to magnesium making them a valuable addition to the compost pile if you don't care to eat BEET: Good for adding minerals to the soil. The leaves are composed of 25%

near tomatoes to improve growth and disease resistance. After you have planned this annual once it will self seed. Borage flowers are edible. nice mulch for most plants. Borage and strawberries help each other and strawberry farmers always set a few plants in their beds to enhance the fruits flavor and yield. Plant plant it is growing next to via increasing resistance to pests and disease. It also makes a vitamin C and are rich in calcium, potassium and mineral salts. Borage may benefit any tomato hornworms and cabbage worms. One of the best bee and wasp attracting plants. Adds trace minerals to the soil and a good addition the compost pile. The leaves contain BORAGE: Companion plant for tomatoes, squash, strawberries and most plants. Deters

rich soil with plenty of lime to flourish BRASSICA: Benefit from chamomile, peppermint, dill, sage, and rosemary. They need

BUCKWHEAT: Accumulates calcium and can be grown as an excellent cover crop Attracts hoverflies in droves. (Member of the brassica family.)

of beneficial insects especially the tiny parasitic wasps. Keep it away from dill and fennel CARAWAY: Good for loosening compacted soil with it's deep roots so it's also compatible next to shallow rooted crops. Tricky to establish. The flowers attract a number

we spread sprigs of mint throughout and the mice split! Use sprigs of mint anywhere in the house you want deter mice and ants. Smells good and very safe. CATNIP: Deters flea beetles, aphids, Japanese beetles, squash bugs, ants and weevils. We have found it repels mice quite well: mice were wreaking havoc in our outbuildings

CHAMOMILE, GERMAN: Annual. Improves flavor of cabbages, cucumbers and

chamomile of any type is considered a tonic for anything you grow in the garden unpicked and German chamomile will reseed itself. Roman chamomile is a low growing perennial that will tolerate almost any soil conditions. Both like full sun. Growing returning them to the soil. Increases oil production from herbs. Leave some flowers onions. Host to hoverflies and wasps. Accumulates calcium, potassium and sulfur, later

lettuce. Said to deter slugs. Likes shade CHERVIL: Companion to radishes for improved growth and flavor. Keeps aphids off

and gooseberries to prevent downy and powdery mildews. See chive tea on disease page among roses it prevents black spot. You will need patience as it takes about 3 years for plantings of chives to prevent the 2 diseases. A tea of chives may be used on cucumbers Japanese beetles and carrot rust fly. Planted among apple trees it helps prevent scab and keep aphids away from tomatoes, mums and sunflowers. Chives may drive away CHIVES: Improves growth and flavor of carrots and tomatoes. Keeps aphids help to

CHRYSANTHEMUMS: C. execineum kills root nematodes (the bad ones) it's flowers along with those of C. cineranaefolium have been used as botameal pesticides for centuries (i.e. pyrethrum) White flowering chrysanthemums repel Japanese beetles. To the right is a picture of the painted daisy from which pyrethrum is extracted.



CLOVER: Long used as a green manure and plant companion. Attracts many beneficials. Useful planted around apple trees to attract predators of the woolly aphid.

COMFREY: Accumulates calcium, phosphorous and potassium. Likes wet spots to grow in. Traditional medicinal plant. Good trap crop for slugs. More on comfrey

used as a spray for spider mites. A partner for anise CORLANDER: Repels aphids, spider mites and potato beetle. A tea from this can be

COSTMARY: This 2-3 foot tall perennial of the chrysanthemum family helps to repel

provide a strong support for the vines. Cukes also do well with peas, beets and carrots. Dill planted with cucumbers by attracting beneficial predators. and over your corn plants. A great duet is to plant cukes with sunflowers. The sunflowers the same conditions warmth, rich soil and plenty of moisture. Let the cucumbers grow up CUCUMBERS: Cucumbers are great to plant with corn and beans. The three plants like

flowers repels nematodes! DAHLIAS: These beautiful, tuberous annuais that can have up to dinner plate size

plants to keep the destructive horn worm away from them. We like to plant it for the swallowtail butterfly caterpillars to feed on. Even their caterpillars are beautiful. ticket.) Dill goes well with onions, cabbage, sweet corn and cucumbers. Dill does attract the tomato horn worm so it would be useful to plant it somewhere away from your tomato dill leaves on plants that are suspect to squash bugs, like squash plants, yeah that's the mites to some degree. Also may repel the dreaded squash bug! (scatter some good size Best friend for lettuce. Attracts hoverflies and predatory wasps. Repels aphids and spider DILL: Improves growth and health of cabbage. Do not plant near carrots or caraway

ELDERBERRY: A spray (see insect treatments) made from the leaves can be used

against aphids, carrot root fly, cuke beetles and peach tree borers. Put branches and leaves in mole runs to banish them. Yes, it works!

flowers that readily self sows offend the Colorado potato bug. Flax is an annual from 1-4 feet tall with blue or white FLAX: Plant with carrots, and potatoes. Flax contains tannin and linseed oils which may

from 2-3 feet high with a bushy growth form. where you plant them if you have children. They are a beautiful annual plant growing foliage. The foliage is pure poison to them and they won't live to have dessert! It is important to mention that Four O'clock are also poisonous to humans. Please be careful FOUR-O'CLOCKS: Draw Japanese beetles like a magnet which then dine on the

fungus gnats among others with as little as a 6-8% concentration! It is safe for use on capsules planted at the bases of fruit trees actually kept deer away! Hey, worth a try! Concentrated garlic sprays have been observed to repel and kill whiteflies, aphids and maggots, snails, and carrot root fly. Researchers have observed that time-released garlic also taken up by the roots. Has value in offending codling moths, Japanese beetles, root action as it is taken up the plants through their pores and when used as a soil drench is fungicide which will help in the garden with disease prevention. Garlic is systemic in GARLIC: Plant near roses to repel aphids. Accumulates sulfur; a naturally occurring

# Try concentrated Garlie Barrier Insect Repellent!

com, and cabbage Geranium: -Repels cabbage worms and Japanese beetles, plant around grapes, roses,

GOPHER PURGE: Deters gophers, and moles

radishes and cabbage away from grapes. Planting clover increases the soil fertility for GRAPES: Hyssop is beneficial to grapes as are beans, peas, or blackberries. Keep grapes. Chives with grapes help repel aphids. Plant your vines under Elm or Mulberry

have observed that the root can yield anti-fungal properties when a tea is made from it bugs. There are some very effective insect sprays that can be made with the root. Use the bottomless pot method to keep horseradish contained. Also repels Blister beetles. We HORSERADISH: Plant in containers in the potato patch to keep away Colorado potato (See: Horseradish: Disease)

tomatoes and peppers season, attracting beneficial insects almost as long as you are likely to need them. For best results use horehound directly as a companion plant. Stimulates and aids fruiting in grows where many others fail to thrive and can survive harsh winters. Blooms over a long larval forms of these insects parasitize or otherwise consume many other insects pests. It tiny flowers aftract Braconid and Icheumonid wasps, and Tachnid and Syrid flies. The HOREHOUND: (Marrubium Vulgare) like many varieties in the mint family, the many

merpianing. home. It is not as invasive as other members of the mint family making it safer for becites. Do not plant near radishes. Hyssop may be the number one preference among bees and some beekeepers rub the hive with it to encourage the bees to keep to their HYSSOP: Companion plant to cabbage and grapes, deters cabbage moths and flea

and during infestation times. If you have access to seaweed, use it as a mulch to keep sprays keep aphids and Japanese beetles away when used as a spray every 8 days before only repel insects but feed the vegetables. In particular we have observed that kelp foliar KELP: When used in a powder mixture or tea as a spray, this versatile sea herb will not

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LAMIUM: This will repel potato bugs- a big problem for many gardeners!

Japanese beetles. They dine and die! Larkspur is poisonous to humans too! LARKSPUR: An annual member of the Delphinium family, larkspur will attract

winter from cuttings, setting out in spring LAVENDER: Repels fleas and moths. Prolific flowering lavender nourishes many nectar feeding and beneficial insects. Use dried sprigs of lavender to repel moths. Start plants in

Leeks also repel carrot flies. LEEKS: Use leeks near carrots, celery and onions which will improve their growth

leaves on your skin to keep mosquitoes away! Use to ward off squash bugs! many bugs. Lemon balm has citronella compounds that make this work: crush and rub the LEMON BALM: Sprinkle throughout the garden in an herbal powder mixture to deter

large plant, use one planted as a backdrop. Similar to celery in flavor LOVAGE: Improves flavor and health of most plants. Good habitat for ground beetles. A

MARIGOLDS: (Calendula): Given a lot of credit as a pest deterrent. Keeps soil free of bad nematodes; supposed to discourage many insects. Plant freely throughout the garden that marigolds do attract spider mites and slugs. The marigolds you choose must be a scented variety for them to work. One down side is

- French Marigold (T. patula) has roots that exude a substance which spreads in then help to deter whiteflies when planted around tomatoes and can be used in killing effect lasted for several years after the plants were These marigolds also greenhouses for the same purpose. Whiteflies hate the smell of marigolds dense areas of them. There have been some studies done that proved this nematode immediate vicinity killing nematodes. For nematode control you want to plant
- marigolds and may also overwhelm weed roots such as bind weed! It is said to repel the Mexican bean beetle and wild bunnies! Be careful it can have an Mexican marigold (T. minuta) is the most powerful of the insect repelling herbicidal effect on some plants like beans and cabbage.

Sweet marjoram is the most commonly grown type. MARJORAM: As a companion plant it improves the flavor of vegetables and herbs

Oregano provides general pest protection melons are as follows: Marigold deters beetles, nasturtium deters bugs and beetles MELONS: Companions: Corn, pumpkin, radish and squash. Other suggested helpers for

perennial. We have found that placing mint (fresh or dried) where mice are a problem is attracted to mint plantings. Be careful where you plant it as mint is an incredibly invasive of the brassica family. It attracts hoverflies and predatory wasps. Earthworms are quite improves the health of cabbage and tomatoes. Use cuttings as a mulch around members very effective in driving them off! MINT: Deters white cabbage moths, ants, rodents, flea beetles, fleas, aphids and

poisonous plant. See Moles: Critter Trouble throughout the garden. Drop a seed of this in mole runs to drive them away. This is a MOLE PLANTS: (castor bean plant) Deter moles and mice if planted here and there

vine to cover something up morning glory is an excellent choice. MORNING GLORIES: They attract hoverflies. Plus if you want a fast growing annual

seeds are all edible and wonderful in salads! is Alaska which has attractive green and white variegated leaves. The leaves, flowers and odor of the plants and repel bugs. It has no taste effect on the fruit. A nice variety to grow nasturtiums every year in the root zone of fruit trees allow the trees to take up the pungent which it does attract, especially the yellow flowering varieties. Likes poor soil with low moisture and no fertilizer. It has been the practice of some fruit growers that planting pests of the cucurbit family. Great trap crop for aphids (in particular the black aphids) NASTURTIUMS: Plant as a barrier around tomatoes, radishes, cabbage, cucumbers, and under fruit trees. Deters wooly aphids, whiteflies, squash bug, cucumber beetles and other

Try our recipe for: Nasturtium Salad

sitica and calcium Invigorating for plants and improves their disease resistance. Leaving the mixture to rot, it then makes an excellent liquid feed. Comfey improves the liquid feed even more. Hairs on the article leaves contain formic acid which "sings" you. NETTLES, STINGING: The flowers attract bees. Sprays made from these are rich in

summer savory and peas Onions planted with strawberries help the berries fight disease. Keep onions away from savory, carrot, leek, beets, kohlrabi, strawberries, brassicas, dill, lettuce and tomatoes Intercropping onions and leeks with your carrots confuses the carrot and onion flies! ONIONS: Planting chamomile with onions improves their flavor. Other companions are

OPAL BASIL: An annual herb that is pretty, tasty and said to repel hornworms!

cucumber beetle. Also benefits grapes. broccoli, cabbage and cauliflower to repel cabbage butterfly and near cucumbers to repel OREGANO: Can be used with most crops but especially good for cabbage. Plant near

PARSLEY: Plant among and sprinkle the leaves on tomatoes, and saparagus. Use as tea to ward off asparagus beedes. Attracts boverflies. Let some go to seed to attract the tiry parasitic watpys and hoverflies. Parkey increases the fraguence of rooss when planted around their base. Rose problems? See: Rose Rx for answers.

nitrogen. Com is a heavy feeder so this is a great combination! Companions for peas are bush beaus, Pole Benns, Carrots, Celery, Chicory, Com Cucamber, Eggpint, Parsley, Early Potato, Radish, Spinach, Strawberry, Sweet perper and Turnips. Do not plant peas with onions. PEAS: Peas fix nitrogen in the soil. Plant next to corn and they will provide extra

PEPPERMINT: Repels white cabbage moths, aphids and flea beetles. It is the menthol content in mints that acts as an insect repellant. Bees and other good guys love it.

ornamentals, so tuck some into flowerbeds and borders. Harvesting tip: The traditiona kohirabi. They should also not be grown near apricot trees because a fingus that the pepper is prone to can cause a lot of harm to the apricot tree. Peppers can double as shelters them and protects the brittle stems from wind. Don't plant them near fennel or carrots. Onions make an excellent companion plant for peppers. They do quite well with okra as it PEPPERS, BELL (Sweet Peppers): Plant peppers near tomatoes, parsley, basil, and

orange, or yellow. Peppers can be harvested at any stage of growth, but their flavor bell pepper, for example, is harvested green, even though most varieties will mature red. doesn't fully develop until maturity.

oregano, parsley and rosemary escarole, tomato, okra, Swiss chard and squash. Herbs to plant near them include: basils, can be useful as insect sprays. Hot peppers like to be grouped with cucumbers, eggplant, Fusarium diseases. Plant anywhere you have these problems. PEPPERS, HOT: Chili peppers have root exudates that prevent root rot and other Teas made from hot peppers

mosquitoes and ticks. Smells nice tool PENNYROYAL: Repels fleas. Many people are now using pennyroyal as an alternative lawn. The leaves when crushed and rubbed onto your skin will repel chiggers, flies, gnats

everywhere. The leaves can be used in a tea to make a potent bug spray Mexican bean beetles and general garden pests. A good companion to tomatoes, but plant PETUNIAS: They repel the asparagus beetle, leafhoppers, certain aphids, tomato worms

hover flies and hover flies eat aphids POACHED EGG PLANT: Grow poached egg plant with tomatoes, they will attract

sets at planting time. Don't plant these around potatoes: cucumber, kohlrabi, parsnip, pumpkin, rutabaga, squash family, sumflower, turnip and fennel. Keep potatoes and tomatoes apart as they both can get early and late blight contaminating each other. Tagetes marigold. Protect them from scab by putting comfrey leaves in with your potato carrot, celery, com, dead nettle, flax, horseradish, marigold, peas, petunia, onion and POTATO: Companions for potatoes are bush bean, members of the cabbage family

**PURSLANE:** This edible weed makes good ground cover in the corn patch. Use the stems, leaves and seeds in stir-frys. Pickle the green seed pod for caper substitutes. If purslane is growing in your garden it means you have healthy, fertile

Planting them around com and letting them go to seed will also help squash borers! Anything that will help keep them away is worth a try radishes with your squash plants? Radishes may protect them from parsnip, peas, spinach and members of the squash family. Why plant beans, carrots, chervil, cucumber, lettuce, melons, nasturtium, RADISH: Companions for radishes are: radish beet, bush beans, pole

our delicious Purple Plum Radishes to broccoli. Keep radishes away from hyssop plants. Planting an early row of radishes may lure flea beeties away from susceptible plants. For some good eating radishes try at 6 to 12 inch intervals among cole crops. In one trial, this measurably reduced damage fight com borers. Chinese Daikon and Snow Beile are favorites of flea beetles. Plant these

carrot flies. Zones 6 and colder can overwinter rosemary as houseplants or take cuttings moths, bean beetles, and carrot flies. Use cuttings to place by the crowns of carrots for ROSEMARY: Companion plant to cabbage, beans, carrots and sage. Deters cabbage

leaves. May be grown indoors in a sunny window. Rue may cause skin irritation in some not plant rue near cucumbers, cabbage, basil or sage. A pretty perennial with bluish-gray beetles: crush a few leaves to release the smell. Has helped repel cats for us. You should particular figs), raspberries and lavender. To make it even more effective with Japanese RUE: Deters aphids, fish moths, flea beetle, onion maggot, slugs, snails, flies and Japanese beetles in roses and raspberries. Companions for rue are roses, fruits (in

harm transplanted tomatoes, broccoli; or many other vegetables. RYE: An excellent use of plant allelopathy is the use of mow-killed grain rye as a mulch The allelochemicals that leach from the rye residue prevent weed germination but do not

used for their ornamental as well as practical qualities. More on sage. pretty. There are some very striking varieties of sage with variegated foliage that can be Allowing sage to flower will also attract many beneficial insects and the flowers are carrots to deter cabbage moths, beetles, black flea beetles and carrot flies. Do not plant near cucumbers, onions or rue. Sage repels cabbage moths and black flea beetles. SAGE: Use as a companion plant with broccoli, cauliflower, rosemary, cabbage, and

every spring and it comes back in not time. A delightful plant that is virtually pest free lemony scent when crushed or brushed in passing. Roots easily from cuttings. Does not like fertilizer! It is a perennial that can get quite bushy. We have started to cut it back SOUTHERNWOOD: Plant with cabbage, and here and there in the garden. Wonderful

SOYBEANS: They add nitrogen to the soil making them a good companion to corn. They repel chinch bugs and Japanese beetles. Soybeans are so good for you! They are many ways to prepare them

beetles. Oregano provides general pest protection SQUASH: Companions: Corn, melon and pumpkin. Helpers: Borage deters worms, improves growth and flavor. Marigolds deters beetle. Nasturtium deters squash bugs and

SUMMER SAVORY: Plant with beans and onions to improve growth and flavor Discourages cabbage moths, Mexican bean beetles and black aphids. Honey bees love it

symbiotic relationship! have nice seed heads for our birds to enjoy! Talk about a are so tough that the aphids cause very little damage and we been doing this for years and it is remarkable. The sunflowers back and watch the ants herd the aphids onto them! We have Aphids a problem? Definitely plant a few sunflowers here and there in the garden. Step SUNFLOWERS: Planting sunflowers with corn is said by some to increase the yield

plant up as tansy will bounce back from any abuse heaped on it! It is also a helpful see on peonics and marching into the kitchen. Al least for us placing tansy clippings the green peonics and marching into the kitchen. Al least for us placing tansy clippings the green plaquases beetles, striped by the greenthouse door has kept them on. Deters Pringi inserts, paparese beetles, striped cucumber beetles, squash bugs, ants and mice! The up and hang a bunch of tansy leaves may only work on sugar type ants. These are the ones that you indoors as a fly repellent. Use clippings as a mulch as needed. Don't be afraid to cut the plants. Tansy which is often recommended as an ant repellant in mind that it can be invasive and is not the most attractive of TANSY: Plant with fruit trees, roses and raspberries keeping

Tansy Warning: You do not want to plant Tansy anywhere that livestock can germinate in livestock fields. feed on it as it is toxic to many animals. Do not let it go to seed either as it may

addition to the compost pile with its' high potassium content

to enhance growth and flavor of vegetables TARRAGON: Plant throughout the garden, not many pests like this one. Recommended

divided in spring. types. Thyme is easy to grow from seeds or cuttings. Older woody plants should be THYME: Deters cabbage worms. Wooly thyme makes a wonderful groundcover. You may want to use the upright form of thyme in the garden rather than the groundcover

apart as they both can get early and late blight contaminating each other attacked by the same worm. Kohlrabi stunts tomato growth. Keep potatoes and tomatoes Borage deters tomato worm, improves growth and flavor. Dill, until mature, improves carrots, celery, chive, cucumber, garlic, head lettuce, marigold, mint, nasturtium, onion, parsley, pepper, marigold, pot marigold and sow thistle. Basil repels files and mosquitoes, growth and health, mature dill retards tomato growth. Enemies: com and tomato are TOMATOES: Tomato allies are: asparagus, basil, bean, members of the cabbage family, improves growth and flavor. Bee balm, chives and mint improve health and flavor

beetles to feast on the foliage which in turn kills them WHITE GERANIUMS: These members of the pelargonum family draw Japanese



WORMWOOD: Keeps animals out of the garden when planted as a border. An excellent deterrent to most insects. A ten made from wormwood will expel cabbage moths, slugs, smalls, black flee beetles and flees effectively. The two best varieties for making insect spray are Silver King and Powis Castle. Adversely Powis castle attracts jadybags which in turn breed directly on the plant. Silver Mound is great as a border plant and the most toxic wormwood. Note: As wormwood actually

See More on wormwood, for more details. produces a botanical poison do not use it directly on food crops

For insect spray: See wormwood spray

it and is an ingredient in our own Golden Harvest Fertilizer. content of herbs when planted among them. Yarrow has so many wonderful properties to YARROW. Yarrow has insectrepelling qualities and is an excellent natural fertilizar, bandful of yarrow leaves added to the compost pite really speeds things up. Try it! I also attracts predatory wasps and ladybugs to name just two. It may increase the essential oil