



Fact sheet

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Planning a Vegetable Garden

Peter J. Nitzsche, Morris County Agricultural Agent & Stephen Reiners, Ph.D., Former Extension Specialist in Vegetable Crops



The most important factor in planning a vegetable garden is location. Choose a site with good drainage and no standing water, even after the heaviest rain. Keep the garden away from trees and shrubs, which may compete with vegetables for water, nutrients, and light. Leafy vegetables, such as lettuce and spinach, require the least direct sunlight, only 4 to 5 hours. Root vegetables require 5 to 6 hours, and fruiting vegetables, such as tomatoes, cucumbers, and zucchini, require at least 8 hours. Remember, NO vegetable can grow in total shade.

Once you've decided where the garden will go, it's time to choose which vegetables to grow. First, make a list of those vegetables you like. Next, put a plan down on paper. This will help you make the best use of space and will save time when planting by showing you exactly where to place your seeds and transplants. The plan should include the following information: garden size, space between rows and within rows, crops and varieties, planting dates, seeded crops, and transplanted crops: You may want to make two plans. One for the spring planting and one for a second planting for summer and autumn harvest.

Use the table included in this factsheet to help you plan. If possible, rotate your crops so similar vegetables are not planted in the same location consecutively. Remember to place your tallest growing crops on the north side of the garden so as not to shade lower growing plants. Also allow for good air movement through the garden. This ensures that moisture on plant leaves dries quickly and may lessen disease problems.

When choosing varieties, always look for ones with disease resistance. Although these varieties may cost more than some of the old standards, they more then make up for the cost with improved yields and less reliance on chemical controls. For more information callyour county Rutgers Cooperative Extension office (listed in the phone book under county government) or visit our web site at www.rce.rutgers.edu.

A good garden design will save you time and make the best use of limited garden space. Most importantly, vegetables grown under optimal conditions, along with the use of disease-resistant varieties, will result in healthy, high-yielding crops.



Vegetable Planting Guide

Vegetable	-	ing (in.) Btwn. Rows	Transplant or Seeds	Planting Dates*	Avg. Yield per 10 ft. of Row
Asparagus	18	60	Crowns	Perennial	5 lbs
Beans, Lima, bush	4	24	seed	Ma,Ju,Ji	6 lbs
Beans, Lima, pole	36	36	seed	Ma,Ju,Jl	7 lbs
Beans, Snap, bush	4	24	seed	Ma,Ju,Ji	6 lbs
Beans, snap. pole	36	24	seed	Ma,Ju,Ji	7 lbs
Beets	3	15	seed	Ap,Ma,Ju,JI	14 lbs
Broccoli	15	30	transplant	Ap,Ma,JI,Au	8 heads
Brussels Sprouts	18	30	transplant	JI	5 lbs
Cabbage	18	24	transplant	Ap,JI	7 heads
Cabbage, Chinese	12	18	seed or trp.	Ap,JI	10 heads
Carrots	3	15	seed	Ap,Ma,Ju,Jl	10 lbs
Cauliflower	24	30	transplant	JI	5 heads
Celery	6	18	transplant	Ma,Ju	20 stalks
Chard, Swiss	6	24	seed	Ap,Ma,Ju,Jl,Au	20 plants
Collards	18	.24	seed	Ap,Ma,Ju,Jl	10 lbs
Corn, Sweet	12	24	seed	Ma,Ju	10 ears
Cucumbers	36	30	seed or trp.	JuJI	8 lbs
Eggplant	30	30	transplant	Ma,Ju	20 fruit
Endive	12	18	seed or trp.	Ap,Ma,Ju,JI,Au	10 plants
Kale	15	18	seed	JI,Ag	24 lbs
Kohlrabi	4	15	seed or trp.	Ap,Ma,JI,Au	20 bulbs
Leeks	3	15	transplants	Ap,Ma,Au	40 plants
Lettuce,Leaf,Romaine	8	15	seed or trp.	Ap,Ma,Au,Se	15 heads
Lettuce, Bibb	6 -	15	seed or trp.	Ap,Ma,Au,Se	20 heads
Muskmelons	36	72	seed or trp.	Ju	8 melons
Mustard Greens	12	15	seed	Au	10 lbs
Okra	24	36	seed	Ma,Ju	100 pods
Onions, dry	4	15	seed,trp.sets	Ap	10 lbs
Parsley	6	15	seed	Ap,Ma,Ju	20 bunches
Parsnips	3	18	seed	Ар	10 lbs
Peas	2	18	seed	Мг,Ар	3 lbs
Peppers	15	15	transplant	Ju L	12 lbs
Pumpkins	48	96	seed	Ju A - M - Juli A - C -	4 fruit
Radishes	77	12 . 48	seed	Ap,Ma,Ju,Jl,Au,Se	60 roots
Rhubarb	36		crowns	Perennial	20 stalks 15 lbs
Rutabagas	4	18	seeds	Ap,JI	
Spinach	4	18 48	seeds	Ap,Se	
Squash, bush	24 36	48 72	seeds or trp. seeds or trp.	ju,jl 1	25 fruit 20 fruits
Squash, vine				Ju In	
Sweet Potatoes	12	36 36	transplants	Ju Madu	
Tomatoes	24	36 18	transplants	Ma,Ju	50 lbs 7 lbs
Turnips	3 36	96	seed seed	Ap,]	
Watermelons				Ju An	
White Potatoes	12	24	tubers	Ap	18 lbs

^{*}Mr=March; Ap=April; Ma=May; Ju=June; Jl=July; Ag=August; Se=September

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RUTGERS COOPERATIVE RESEARCH & EXTENSION N.J. AGRICULTURAL EXPERIMENT STATION RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY NEW BRUNSWICK

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Grow Your Own Vegetable and Flower Seedlings

James Nichnadowicz, Union County 4-H Agent

Materials

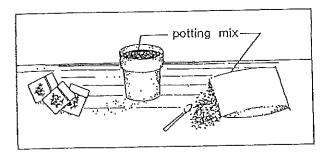
- Vegetable or flower seeds
- Sterile potting soil
- 6-ounce plastic drinking cups
- Clear plastic foam wrap
- A window with southern exposure OR
 a fluorescent fixture with cool white bulbs
- Waterproof marking pen
- Rubber bands

Seeds

Seeds are available from local garden centers. You can also purchase them via mail directly from seed companies. Before buying however, take a close look at your garden site. Select only those plants that will thrive there. For help in selecting plants to grow, contact the Rutgers Cooperative Extension office in your county.

Potting Mix

Use a well-drained artificial soil mix consisting of peat moss, vermiculite, and perlite. This mix is also available at local garden centers.

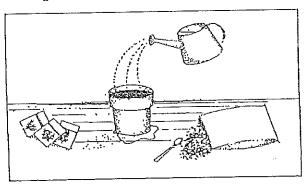


Containers

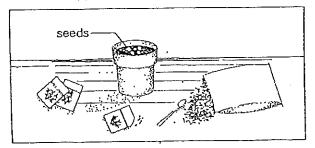
To avoid overwatering your seedlings, start them in small containers. A 6-ounce plastic, not waxed paper, drinking cup works well. Be certain, however, that it has drainage holes in the bottom. If not, make several small holes in the bottom of each cup with a sharp instrument.

Sowing Seeds

- 1. Label containers--date and plant name--with a water proof pen.
- 2. Fill a 6-ounce container with soil mix.
- 3. Using warm water, soak the pots until water runs through drainage holes.

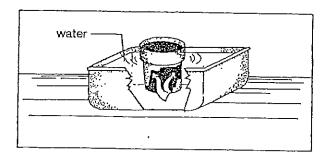


4. Place four (4) seeds on the soil surface of each pot.

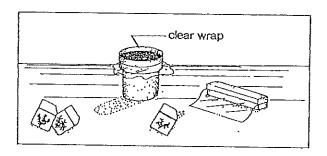




- 5. Cover seeds with 1/4-inch of artificial soil mix.
- 6. Tamp the soil lightly. This brings the seed in close contact with the soil.
- 7. Set the bottom of the pot in warm water. The water should not be above the rim of the pot. Water will move into the soil mix through the drainage holes. When the surface of the soil appears wet, pots should be removed.



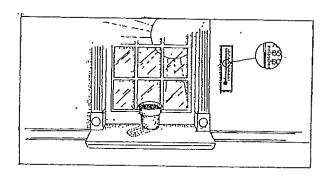
8. Cover pots with clear plastic and secure with rubber bands. (Remove the plastic as soon as seeds sprout).



- 9. Place pots in a warm location (70 to 75°F.) -- the top of a hot water heater is a good location.
- 10.Keep the soil damp at all times. If necessary, water again from the bottom. (See step #7).

Care After Germination

 Remove plastic coverings as soon as seeds sprout. Be patient! You can find out how long it takes for the seeds to sprout by reading instructions on the seed package. 2. Move plants under fluorescent lights or to a window that receives full sun most of the day. NOTE: fluorescent lights should be 4 to 8 inches above the plants and be left on 14 to 18 hours per day. (The cost of power for lights is minimal). Also the temperature in this area should be above 65°F. at all times.



Water plants thoroughly with a solution of water and houseplant fertilizer whenever the soil surface feels dry to the touch.

When each plant has four leaves, pull out of the soil all but the healthiest plant.

4. Your seedlings are large enough to transplant outdoors when their roots have filled the pot in which they are growing. This happens 6 to 8 weeks after you have planted the seeds. Check instructions on the seed package for more details.

Planting Outdoors

Before planting your seedlings outdoors they need to become acclimated. They've led a pampered life in your home. You've protected them from the drying wind, scorching sun, and cold night air. Allow a week for seedlings to become adjusted to the outdoors. Each day, place them outside in a sunny spot for a few hours. Gradually increase the length of time outside. By the end of the week leave them outdoors overnight. After 1 week of this procedure, the seedlings will have adjusted to the outside world. They are now ready for outdoor planting.

- Illustrations by Lynne Ziobro Master Gardener, Union County

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Varieties for New Jersey Vegetable Gardens

Stephen Reiners, Ph.D., Extension Specialist in Vegetable Crops & Joseph Steinke, Horticulturist

his fact sheet is intended for use by home gardeners. These recommended varieties have been tested for suitability in New Jersey gardens. They have been selected for their productiveness, quality, flavor, and disease resistance. Some of these varieties are available only through seed company catalogs. For a listing of seed companies please see fact sheet #680, Vegetable Seed and Plant Sources for the Home Gardener, available from your county Rutgers Cooperative Extension Office. In addition, contact your county extension office for more specific information on growing these vegetables.

ABBREVIATIONS

- d- Approximate number of days required from seeding to maturity. This number will vary with the season.

 Use it as a guide to compare the maturity of a given variety as it relates to others.
- dt- Approximate number of days to maturity from transplanting, not seeding.

ASPARAGUS

Greenwich
Jersey Giant
Jersey Prince
Jersey Knight
Jersey King

Jersey General

BEANS

Bush Snap Green

Provider - 50d
Bountiful - 50d
Triumph de Farcy - 52d
Derby - 55d.
Tendercrop - 55d
Bush Lake 274 - 56d
Roma II - 59d
Jumbo - 60d

BEANS (continued)

Bush Snap Yellow

Resistant Cherokee Wax - 54d Gold Crop - 54d Gold Rush - 56d

Pole Green

Romano – 60d Blue Lake – 65d

Bush Lima

Fordhook 242 – 75d Eastland – 73d

Pole Lima

King of the Garden - 90d

BEANS (continued)

Horticultural Shell Beans

French Horticultural - 72d

Edible Soybean

Prize - 85d

BEETS

Red Ace – 60d
Burpee's Golden Beet – 60d
Ruby Queen – 65d
Crosby Green Top – 65d
Detroit Dark Red – 68d
Long Season/Winter Keeper – 80d

BROCCOLI

Green Comet Hybrid - 55dt



BROCCOLI (continued)

Premium Crop – 65dt Waltham #29 – 74dt

BRUSSELSSPROUTS

Jade Cross E ~ 90dt

CABBAGE

Green Flat Leaf

Golden Acre - 65dt Market Prize - 75dt

Savoy

Savoy King - 80dt

Red

Ruby Ball - 70dt

Chinese Cabbage

Jade Pagoda – 72d Michihli – 75d

CAULIFLOWER

Snowball strains – 50-60dt Snow Crown – 50dt

CARROTS

Orbit - 55d Scarlet Nantes - 70d Royal Chantenay - 70d

CELERY

Pascal – 100dt Florida – 115dt

CELERIAC

Marble Ball - 110dt

COLLARDS

Vates - 75d

CUCUMBERS

<u>Slicers</u>

Bush Champion – 55d Marketmore #76 – 65d Burpless Hybrid – 65d

<u>Picklers</u>

Wisconsin SMR #58 - 55d

EGGPLANT

Black Magic – 75dt Jersey King Hybrid – 75dt Harris Special Hibush – 75dt

ENDIVE

Green Curled - 95d Full Heart Batavian - 85d

KALE

Vates - 55d

KOHLRABI

Grand Duke - 55d

LEEK

American Flag – 125d Conqueror – 130d

LETTUCE

Butterhead

Summer Bibb - 60d Buttercrunch - 65d Dark Green Boston - 70d

Looseleaf

Ruby – 47d Salad Bowl – 50d Grand Rapids – 54d

Romaine

Parris Island Cos - 70d

MUSKMELON

Burpee Hybrid – 83d Harper Hybrid – 83d Ambrosia Hybrid – 88d Saticoy Hybrid – 90d

Crenshawtype

Early Hybrid Crenshaw - 80d

Honeydew

Early Dew Hybrid - 80d

MUSTARD

Green Wave - 45d

OKRA

Clemson Spineless – 55d Emerald – 57d Burgundy – 60d

ONIONS

<u>Sets</u>

Early Yellow Globe – 90d Stuttgarter – 120d

Transplants

Sweet Spanish - 110dt

Bunching

Japanese Bunching (Heshiko) Shallots White Portugal

PARSLEY

Triple Moss Curled – 80d Dark Green Italian – 80d Hamburg Root Parsley – 90d

PARSNIPS

All America – 105d Harris' Model – 120d

PEAS

Sugar Ann – 58d Sugarbon – 58d Little Marvel – 60d Progress No. 9 – 60d Frosty – 65d Green Arrow – 65d Wando – 70d Sugar Snap – 70d

PEPPERS

Bell

Gypsy – 65dt Staddon's Select – 70dt Cubanelle – 70dt Orobelle – 78dt Oritani – 80dt Bell Tower – 80dt Yolo Wonder – 80dt Emerald Giant – 80dt

Hot types

Hungarian Wax - 70dt Long Red Cayenne - 70dt Large Cherry - 80dt

PUMPKINS

Big Autumn – 95d Small Sugar – 100d Howden – 115d Atlantic Giant – 120d Big Max – 120d

Mini-Pumpkins

Jack Be Little - 105d

RADISHES

Champion - 30d Icicle - 30d Summer Cross - 45d

RHUBARB

MacDonald Canada Red Victoria

RUTABAGA

American Purple Top - 90d

SALSIFY

Mammoth Sandwich - 120d

SPINACH

Melody – 45d Long Standing Bloomsdale – 50d

SQUASH

Summer

Seneca Prolific – 50d Seneca Zucchini – 50d Zucchini Elite – 50d Early Prolific Staightneck – 54d

<u>Winter</u>

Tay Belle – 83d
Table Queen – 85d
Sweet Mama – 95d
Butternut – 100d
Vegetable Spaghetti – 100d
Blue Hubbard – 110d

SWEET CORN

Yellow-normal

Sundance – 69d Tuxedo – 75d Merit – 82d

Yellow-sugar enhanced

Summer Flavor 62Y - 62d

Yellow-supersweet

Showcase - 83d

Bicolor

Sprite - 70d Calico Belle - 82d Sweet Sue - 87d Biqueen - 95d

SWEET CORN (continued)

White-normal

Stardust – 67d Silver Queen – 92d

White-sugar enhanced

Silverado - 79d

White-supersweet

Summer Sweet 8601 - 86d

<u>Ornamental</u>

Indian – 110d Strawberry – 105d

SWEETPOTATOES

Jewel – 110dt
Beauregard – 120dt
Jersey Yellow – 120dt
Georgia Jet – 120dt
Porto Rico – 120dt

SWISSCHARD

Large White Rib – 60d Rhubarb Chard – 60d

TOMATOES

First Early

. Quick Pick – 62dt

Second Early

Pikred – 70dt Jet Star – 70dt

Midseason

Celebrity – 72dt Supersonic – 78dt Floramerica – 78dt

<u>Late</u>

Empire - 80dt

TOMATOES (confinued)

Supersonic – 80dt Supersteak – 80dt Ramapo – 85dt

Novelty types

Roma VF - plum, 75dt Sweet 100 - cherry, 65dt Small Fry - cherry, 65dt Pixie Hybrid II - 55dt Patio Prize Hybrid - 52dt Lemon Boy - yellow fruit, 72dt Stuffing Tomato - 75dt Burpee's Longkeeper - 78dt

TURNIP

Shogin (for greens) – 30d Tokyo Market – 50d Purple Top White Globe – 55d

WATERMELON

Yellow Baby - 70d Sugar Baby - 75d Blue Belle - 76d Crimson Sweet - 80d

WHITEPOTATOES

White skinned - Early

Early Cobbler Superior

White Skinned-Midseason

Chippewa

White Skinned - Late

Katahdin Kennebec

WHITE POTATOES (continued)

Green Mountain

Red Skinned

Red Pontiac Norland

Yellow skin and flesh

Yukon Gold

Violetskin, white flesh

Caribe

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Companion Planting

Plants, like people, influence one another. Some get along better together than others. Black walnut and butternut have an antagonistic relationship with tomatoes, for example. The toxin juglans exuded from the trees' roots is quite toxic to several plants, including those of the nightshade family such as tomato, pepper, and eggplant. Plant neighbor relationships might take several forms. First, they may improve the health or flavor of a companion. Second, they may interfere with the growth of a neighbor. Third, they may repel or trap an undesirable critter. Companion plant may also attract a beneficial insect.

Although there are several references about beneficial relationships between plants, the science of companion planting is often anecdotal. There appears to be no research proven reproducible companion planting recommendations. There are numerous suggestions rooted in organic agriculture. The suggestions below are a starting point for individual trials. Localized growing environment influence success or failure. Certainly, a mixed plant community rather than a monoculture is a model for companion planting. The array of colors, aromas and ripening times often confuse plant pests in these situations. The following are a few plants that seem to help one another. The garden should test and trial. Continue doing what works and abandon what does not.

Asparagus – A good method for planting is in a long row at one side of the garden. After harvest, plant tomatoes on either side, and both plants reap benefits from each other. Parsley planted with asparagus seems to provide vigor to both.

Beans – Generally, beans thrive when interplanted with carrots, cauliflower and beets. They also aid cucumbers and cabbage. A Summer Savory companion improves growth and flavor as well as repelling bean beetles. As a bonus, cook both together for a great flavor. Beans don't like members of the onion family and they dislike being planted near gladiolas.

Beets – Beets grow well near bush beans, onions, and kohlrabi, but dislike *pole* beans. In addition, lettuce and brassicas are good companions.

Cabbage — Cole crops such as cabbage, kale, kohlrabi, broccoli, and Brussels sprouts as well as collards, rutabagas and turnips. They do well when planted with aromatic plants such as dill, celery, chamomile, sage, peppermint, and rosemary. Do not plant with tomatoes, pole beans or strawberries.

Carrots - Onions, leeks and herbs such as rosemary, wormwood, and sage act as repellents to the carrot fly.

Corn - Sweet corn does well with potatoes, peas, beans, cucumbers, pumpkin, and squash. Melons, squash, pumpkin and cukes like the shade provided by corn.

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Cucumbers – Cukes seem to be offensive to raccoons, so it's good to plant them near your corn. Thin strips of cucumbers also repel ants. Sow 2 or 3 radish seeds in cucumber hills to repel cucumber beetles. Don't pull the radishes even if they go to seed. Cukes and potatoes are antagonistic. Cukes do not grow well with aromatic herbs.

Lettuce – Lettuce grows well with strawberries, cucumbers and carrots. Radishes grown with lettuce are especially good.

Onion – Onions and all members of the cabbage family get along well together. They also like beets, strawberries, tomatoes, lettuce, summer savory and a sparse planting of chamomile. They do not like peas and beans. Ornamental relatives of the onion are helpful as protective companions for roses. Since onion maggots travel from plant to plant when set in a row, scatter your onion plants throughout the garden.

Sweet Pepper - Basil and sweet peppers have similar general requirements. They work well when planted together.

Squash — As with cucumbers, 2 or 3 icicle radishes planted in each hill help prevent insects on squash. Again, let them grow and go to seed. Nasturtiums repel squash bugs. Also, squash planted either earlier or later than usual will often remain insect free.

Tomato – Tomatoes and all Cole crops should be kept apart. Tomatoes also dislike potatoes and fennel. Tomatoes are compatible with chives, onion, parsley, marigold, nasturtium and carrot. Garlic planted between tomato plants protects them from red spider mites. Tomatoes protect roses against blackspot. A spray for roses: make a solution of tomato leaves in your blender by adding 4 or 5 parts of water and 1 tablespoon of cornstarch. Strain and spray on roses where it is not convenient to plant tomatoes as companions.

The best way to see how companions interact with each other is first follow the given guidelines. Secondly, and most importantly, keep careful records of your successes and failures. Learn the basic combinations and then experiment with your own. Just as every person is different, no two gardens are alike. That is why personal observation is so important.

Resources: Carrots Love Tomatoes, by Louise Riotte; several books from Rodale Press.

Pests and the Plants that Repel Them

Certain plants are believed to repel insects.

Use the list below to help you map out your next planting arrangement.

Ant Mints, tansy, wormwood Aphid Most aromatic herbs, including catnip, chives, clover, coriander, eucalyptus, fennel, garlic, larkspur, marigold, mustard, nasturitum, peppermint, spearmir Asparagus beetle Basil, calendula, nasturtium, parsiey, tansy, tomato Cabbage butterfly Southernwood, tansy Cabbage Looper Catnip, dill, eucalyptus, garlic, hyssop, nasturtium, onion, pennyroyal, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Carlor fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Cooling moth Carric, wormwood Colorado potato beetle Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Corn earworm Coumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Elies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savorles Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snall Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Homworm Borage, calendula, dill, opal basil, thyme		
Asparagus beetle Asparagus beetle Cabbage butterfly Cabbage Looper Catinip, dill, eucalyptus, garlic, hyssop, nasturtium, peppermint, spearmint Cabbage Looper Catinip, dill, eucalyptus, garlic, hyssop, nasturtium, pennyroyal, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Carrot fly Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, thyme, wormwood Carrot fly Carrot fly Catinip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Colorado potato beetle Catinip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Corn earworm Coumber beetle Catinip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Cutworm Flea beetle Catinip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Cutworm Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Basil, tansy Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catinip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mose Mose Mosquito Nematodes Calendula, French marigold Peach borer Garlic Pests in general Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catanbula, dill, opal basil, thyme Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Pest	Repellent Plant(s)
Asparagus beetle Asparagus beetle Cabbage butterfly Cabbage Looper Catnip, dill, eucalyptus, garlic, hyssop, nasturtium, peppermint, spearmint,		·
Asparagus beetle Asparagus beetle Basil, calendula, nasturtium, persley, tansy, tomato Cabbage butterfly Cabbage Looper Catnip, dill, eucalyptus, garlic, hyssop, nasturtium, nonion, pennyroyal, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Carot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, thyme, wormwood Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, thyme, wormwood Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Colorado potato beetle Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Com earworn Cosmos, geranium, marigold, thyme Cutworm Flea beetle Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odoriess marigold, tansy, white geranium Mexican bean beetle Mouse Mormwood Mole Castor bean, narcissus Mosquito Nematodes Calendula, French marigold Peach borer Garlic Pests in general Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Squash bug Squash vine borer Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Ant	Mints, tansy, wormwood
Asparagus beetle Basil, calendula, nasturtium, parsiey, tansy, tomato Cabbage butterfly Southernwood, tansy Cabbage Looper Catnip, dill, eucalyptus, garlic, hyssop, nasturtium, onion, pennyroyal, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Cabbage maggot Garlic, marigold, radish, sage, tansy, thyme, wormwood Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Codling moth Garlic, wormwood Colorado potato beetle Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mose Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach bore Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Most aromatic herbs, including catnip, chives, clover, container, euclyptus,
Cabbage butterfly Cabbage Looper Catnip, dill, eucalyptus, garlic, hyssop, nasturtium, onion, pennyroyal, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Codling moth Colorado potato beetle Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Basil, tansy Imported Cabbageworm Japanese beetle Catnip, cern, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Basil, tansy Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Mose Mose Mosquito Basil Nematodes Calendula, French marigold Peach borer Pests in general Rabbit Garlic, marigold, onion Slug and snail Spider mite Coriander, dill Squash bug Squash bug Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		fennel, garlic, larkspur, marigold, mustard, nasturium, peppermini, spearmine
Cabbage butterfly Cabbage Looper Cathip, dill, eucalyptus, garlic, hyssop, nasturtium, onion, pennyroyal, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Colorado potato beetle Corn earworm Coumber beetle Cutworm Cutworm Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Imported Cabbageworm Japanese beetle Catnip, chives, garlic, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Garlic, marigold, nasturtium, rosemary, savories Mouse Moise Mosquito Reading R	Asparagus beetle	Basil, calendula, nasturtium, parsley, tansy, tomato
Cabbage Looper Cathip, dill, eucalyptus, garlic, hyssop, nasturtum, onton, peinyroyan, peppermint, rosemary, sage, southernwood, spearmint, thyme, wormwood Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Codling moth Colorado potato beetle Cotnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Japanese beetle Catnip, chives, garlic, peranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Mose Mormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Rabbit Garlic, marigold, onion Slug and snall Squash bug Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Southernwood, tansy
Cabbage maggot Garlic, marigold, radish, sage, tansy, thyme, wormwood Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Colorado potato beetle Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Leafnopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Moie Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Catnip, dill, eucalyptus, garlic, hyssop, nasturtium, onion, pennyruyal,
Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco, wormwood Coding moth Colorado potato beetle Corn earworm Coumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Flea beetle Catnip, marigold, nasturtium, radish, rue, tansy Catnip, marigold, nasturtium, radish, rue, tansy Cutworm Flies Basil, tansy Imported Cabbageworm Japanese beetle Leafhopper Geranium, petunia Leafhopper Mexican bean beetle Mouse Mosquito Mosquito Mosquito Nematodes Catnip, marigold, nasturtium, rosemary, savories Mosquito Nematodes Catrolip, corn, marigold, nasturtium, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mossquito Mosquito Nematodes Cator bean, narcissus Mosquito Nematodes Calendula, French marigold Peach borer Pests in general Rabbit Garlic, marigold, onion Siug and snail Spider mite Squash bug Squash vine borer Radish Tomato Hornworm Borage, calendula, dili, opal basil, thyme Tomato Hornworm Borage, calendula, point, sint there wormwood		peppermint, rosemary, sage, southernwood, spearmint, thyrne, wornwood
Carrot fly Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tarisy, robucce, wormwood Coding meth Colorado potato beetle Corn earworm Cucumber beetle Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Japanese beetle Catnip, carn, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium deranders and the same petule Garlic, marigold, nasturtium, rosemary, savories Mouse Mouse Moile Mosquito Mosquito Castor bean, narcissus Basil Nematodes Peach borer Garlic Pests in general Oregano Rabbit Sug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash bug Catnip, marigold, dill, opal basil, thyme Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Cabbage maggot	Carlie marigald radish sage tansy, thyme, Wormwood
Codling moth Garlic, wormwood Colorado potato beetle Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Leafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snall Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash bune borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Basil, leek, lettuce, nasturtium, onion, rosemary, sage, tansy, tobacco,
Colorado potato beetle Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Cutworm Spiny amaranth, tansy Catnip, marigold, nasturtium, radish, rue, tansy Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Imported Cabbageworm Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Leafhopper Geranium, petunia Mexican bean beetle Mouse Mose Mose Mosquito Mose Mosquito Nematodes Peach borer Pests in general Rabbit Garlic, marigold, onion Slug and snail Spider mite Squash bug Squash vine borer Radish Tomato Hornworm Rotating and snail Spider mite Sorage, calendula, fill, opal basil, thyme Surraywood Spiny amarigold, dill, opal basil, thyme		wormwood .
Colorado potato beetle Corn earworm Cosmos, geranium, marigold, thyme Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Japanese beetle Catnip, chives, garlic, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Geranium, petunia Mexican bean beetle Mouse Mosquito Mole Castor bean, narcissus Mosquito Basil Nematodes Peach borer Pests in general Rabbit Garlic, marigold, onion Slug and snail Spider mite Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Codling moth	Garlic, wormwood
Corn earworm Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Leafnopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Mose Mose Mose Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Colorado potato beetle	Catnip, coriander, eucalyptus, marigold, nasturtium, onion, tansy
Cucumber beetle Catnip, corn, marigold, nasturtium, radish, rue, tansy Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Leafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		l. Cosmos, geranium, marigold, thyme
Cutworm Spiny amaranth, tansy Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium deranium, petunia Leafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Siug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Catnip, corn, marigoid, nasturtium, radish, rue, tansy
Flea beetle Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood, tansy, tobacco, wormwood Flies Basil, tansy Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Mormwood Mole Castor bean, narcissus Mosquito Nematodes Peach borer Garlic Pests in general Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Spiny amaranth, tansy
tansy, tobacco, wormwood Flies Basil, tansy Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Catnip, marigold, nasturtium, peppermint, rue, spearmint, southernwood,
Imported Cabbageworm Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Eafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Wormwood Mole Castor bean, narcissus Mosquito Nematodes Calendula, French marigold Peach borer Garlic Pests in general Carlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		tansy, tobacco, wormwood
Imported Cabbageworm Dill, garlic, geranium, hyssop, peppermint, nasturtium, onion, pennyroyal, sage, southernwood, tansy, thyme, borage Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Mexican bean beetle Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Mouse Mosquito Nematodes Calendula, French marigold Peach borer Pests in general Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Flies	Basil, tansy
Japanese beetle Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium Leafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		Dill, garlic, geranium, hyssop, peppermint, nasturtium, onlon, pennyroyal,
Leafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme		sage, southernwood, tansy, thyme, borage
Leafhopper Geranium, petunia Mexican bean beetle Garlic, marigold, nasturtium, rosemary, savories Mouse Wormwood Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Japanese beetle	Catnip, chives, garlic, nasturtium, odorless marigold, tansy, white geranium
Mexican bean beetle Mouse Mole Castor bean, narcissus Mosquito Nematodes Peach borer Pests in general Rabbit Slug and snail Spider mite Squash bug Squash vine borer Tomato Hornworm Mormwood Wormwood Wormwood Wormwood Castor bean, narcissus Basil Calendula, French marigold Calendula, Onion Slug and snail Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Radish Borage, calendula, dill, opal basil, thyme		Geranium petunia
Mole Castor bean, narcissus Mosquito Basil Nematodes Calendula, French marigold Peach borer Garlic Pests in general Oregano Rabbit Garlic, marigold, onion Slug and snail Fennel, garlic, rosemary Spider mite Coriander, dill Squash bug Catnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansy Squash vine borer Radish Tomato Hornworm Borage, calendula, dill, opal basil, thyme	Mexican bean beetle	Garlic, marigold, nasturtium, rosemary, savories
MoleCastor bean, narcissusMosquitoBasilNematodesCalendula, French marigoldPeach borerGarlicPests in generalOreganoRabbitGarlic, marigold, onionSlug and snailFennel, garlic, rosemarySpider miteCoriander, dillSquash bugCatnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansySquash vine borerRadishTomato HornwormBorage, calendula, dill, opal basil, thyme		Wormwood
MosquitoBasilNematodesCalendula, French marigoldPeach borerGarlicPests in generalOreganoRabbitGarlic, marigold, onionSlug and snailFennel, garlic, rosemarySpider miteCoriander, dillSquash bugCatnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansySquash vine borerRadishTomato HornwormBorage, calendula, dill, opal basil, thyme		Castor bean, narcissus
NematodesCalendula, French marigoldPeach borerGarlicPests in generalOreganoRabbitGarlic, marigold, onionSlug and snailFennel, garlic, rosemarySpider miteCoriander, dillSquash bugCatnip, marigold, nasturtium, peppermint, petunia, radish, spearmint, tansySquash vine borerRadishTomato HornwormBorage, calendula, dill, opal basil, thyme		
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Tomato Hornworm Borage, calendula, dill, opal basii, thyme		Radish
thumo wormwood		Borage, calendula, dill, opal basil, thyme
WhiteIV Dasii, Hasturium, popportanti aying the	Whitefly	Basil, nasturtium, peppermint, thyme, wormwood
Wireworm Clover		

Plants Helping Other Plants

Listed below are a few of the plant combinations that gardeners have long recommended.

None has been scientifically proven, but some do seem to make good common sense as interplants. Test them yourself.

Plant	Plant(s) It Enhances
Anise	Coriander
Basil	Pepper, tomato
Bee balm	Tomato
Borage	Bean, strawberry, tomato, squash
Chamomile	Cabbage family, cucumber, most herbs, melon, onion
Chervil	Radish
Chives	Carrot, grape, rose, tomato
Coriander	Anise Carrot, grape, rose, tomato
Dandelion	Fruit trees
Dead nettle	Potato
Dill	Cabbage family, lettuce, onion
Dill, Immature	Tomato
Garlic	Rose, beet, cabbage family
Horseradish	Potato
Hyssop	Cabbage, grape
Larkspur	Bean, cabbage
Lovage	Bean
Marigold	Potato, rose, tomato
Mint	Cabbage, pea, tomato
Mustards	Bean, fruit trees, grape
Nasturtium	Cucumber, radish
Onion	Beet, cabbage, lettuce, strawberry
Oregano	Pumpkin
Pigweed	Corn, melon
Rosemary	Bean
Rue	Fig
Sage	Cabbage, carrot, strawberry, tomato, marjoram
Savories	Bean, onion
Summer savory	Melon
Sow thistle	Melon
Tansy	Blackberry, raspberry, rose
Tarragon	Most vegetables
Thyme	Eggplant, potato, strawberry, tomato
Yarrow	Most aromatic herbs

Plants Harming Other Plants

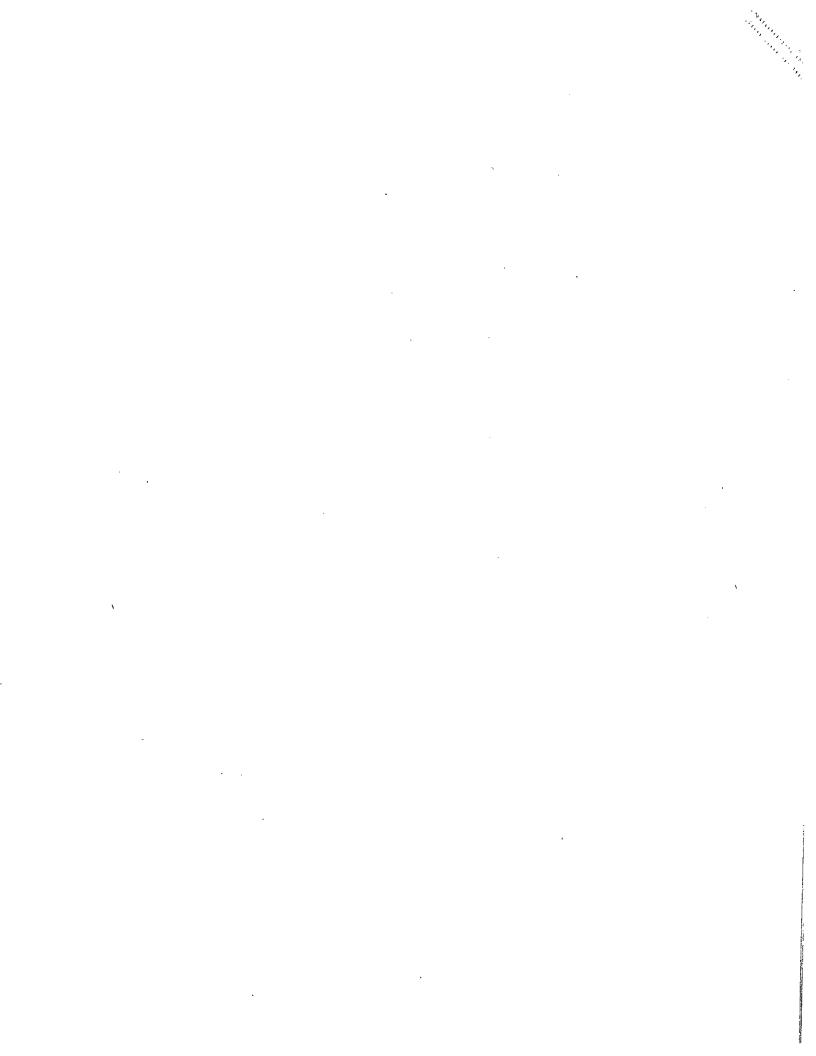
These are the herbs that gardeners have suggested as "harmful" to certain neighboring plants.

Don't let this scare you. Any plant deserves to remain innocent until proven guilty.

So far, there's almost no scientific "proof" to back up most of these claims. The only plant that should perhaps concern the gardener is wormwood, which does contain some toxins.

Plant	Crop(s) It Harms
Aulon	Carrot
Antor	Sugar maple, red pine, tulip poplar, black cherry
Aster	Green alder
Balsam poplar	Pole bean
Beets	Red nine red manle
Black cherry	Pine (Austrian, red, Scotch, white); apple, white birch
Black walnut	Strawberry
Cabbage	Bean, pea
Chives	Lettuce
Chrysanthemum	Fennel
Coriander	Carrot, tomato
Dill	Bean, pepper
Fennel	Poplus sp.
Foxtail & Smooth broome	Bean, pea
Garlic	Sugar maple, red pine, tulip poplar, black cherry
Golden rod	Radish
Hyssop	Azalea, barberry, <i>Taxus,</i> forsythia, <i>Cornus</i> sp.
Kentucky bluegrass	Tomato
Kohlrabi	Beet
Larkspur	Turnip
Mustard	
Onion	Bean, pea, sage Apple, forsythia, Cornus sp.
Perennial rye	
Pole bean	Beets
Potato	Pumpkin, squash, turnip Azalea, barberry, <i>Taxus,</i> forsythia, <i>Cornus</i> sp.
Red fescue	Azalea, barberry, raxus, lorsythia, cornus sp.
Rhododendron	Douglas fir
Rue	Basil, cabbage, sage
Sage	Onion Onion
Sassafras	Box elder, elm, silver maple
Shallot	Bean
Southern red oak	Sweetgum
Sugar maple	Yellow birch, white spruce
Sumac	Douglas fir
Sycamore maple	Yellow birch
Tall fescue	Black walnut, sweetgum, white ash
Tansy	Collard
Tomato	Kohlrabi
Wormwood	Most vegetables

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How to Start a Windowsill Herb Garden

James Nichnadowicz, Union County 4-H Agent

Materials

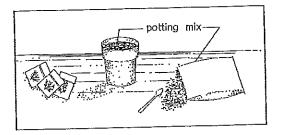
- Herb seeds
- Clean clay or plastic pots
- Sterile potting soil
- 2 oz plastic drinking cups
- Clear plastic food wrap
- A window with southern exposure OR a fluorescent fixture with cool white bulbs
- Waterproof marking pen
- Rubber bands

Herb Seeds

First, select the herbs you like for cooking. Basil, parsley (flat and curled), chives, thyme, rosemary, and sage are easy to grow indoors. Simple to sprout from seed, they make attractive plants if pinched back regularly. To purchase seeds, check with your local garden center or write to your favorite seed companies. Some may also carry started plants.

Potting Mix

Use a well-drained artificial soil mix consisting of peat moss, vermiculite, and perlite. Remove sticks and clumps, as those will block germination of seeds.

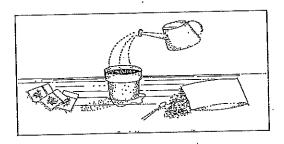


Containers

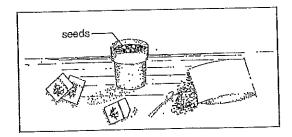
To avoid overwatering your seedlings, start them in small containers. A 2-ounce plastic, not waxed paper, drinking cup works well. Be certain, however, that it has drainage holes in the bottom. If not, several small holes should be made with a sharp instrument.

Sowing Herb Seeds

- Label containers—date and plant name with a waterproof pen.
- 2. Fill a 2-ounce container with soil mix.
- 3. Using warm water, soak the pots until water runs through drainage holes.

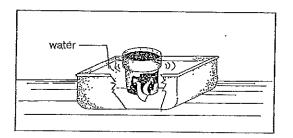


4. Place four (4) seeds on the soil surface.

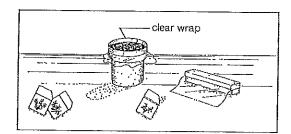




- Cover seeds with 1/4-inch of artificial soil mix.
- 6. Tamp the soil lightly. This brings the seed in close contact with the soil.
- 7. Set the bottom of the pot in warm water. The water should not be above the rim of the pot. Water will move into the soil through the drainage holes. When the surface of the soil appears wet, pots should be removed.



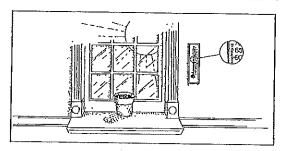
- 8. Cover pots with clear plastic and secure with rubber bands. (Remove plastic as soon as seeds sprout).
- 9. Place pots in a warm location (70 to 75°F.)—the top of a hot water heater is a good location.



10. Keep soil damp at all times. If necessary, water again from the bottom. (See step #7).

Care After Germination

- Remove plastic covering as soon as seeds sprout. Be patient! Some herbs such as parsley can take 3 to 4 weeks to sprout.
- 2. Move plants under fluorescent lights or to a window that receives full sun most of the day. NOTE: fluorescent lights should be 4 to 8 inches above the plants and left on 14 to 18 hours per day. (The cost of power for lights is minimal). Also, the temperature in this area should be above 65°F, at all times.



3. Water plants thoroughly with a solution of water and houseplant fertilizer whenever the soil surface feels dry to the touch.

When each plant has four leaves, pull out all but the healthiest plant from each pot.

4. Repotting of the plant is necessary when it begins to dry quickly between waterings. Use the next largest size container. Ultimately, a 5-inch pot should be large enough to contain a mature plant.

Picking Herbs

After the plants have been transplanted twice, (6 to 10 weeks after sprouting), you can begin to harvest. Take only a few leaves, mostly lower ones, each time. This enables the plant to produce over a longer period.

*With appreciation to Charlene Costaris, Atlantic County Agricultural Agent, and Union County Master Gardeners: Peter Cunicella, Dorothy Herold, and Joanne Kenny.

> —Illustrations by Lynne Ziobro, Master Gardener, Union County

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