# Companion Planting The Beauty \& The Bullies A Crop-by-Crop Review 

|  | $\begin{aligned} & \text { Help Desk: } \\ & 703 \text { 771-5150 } \end{aligned}$ | Knowledge for the Community Website: www.loudouncountymastergardeners.org | e-mail address: loudounmg@.vt.edu |  |
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## Agenda

- Resources are important!
- What is Companion Planting?
-What else do you need to consider?
- Information Tables
- Crop Review
- Garden Bullies
- Q\&A


## References

## Because good sources matter!

1. Great Garden Companions by Sally J ean Cunningham, Master Gardener, Cornell Cooperative Extension
2. Carrots Love Tomatoes by Louise Riotte
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4. University of West Virginia Extension https:/ / extension. wvu. edu/ Iawn-gardening-pests/ gardening/ garden-management/ companion-planting
5. Penn State Extension https:// extension. psu. edu/ programs/ mastergardener/ counties/ susquehanna/ penn-state-master-gardener-articles/ good-neighbors-make-good-gardens-companion-planting
6. Cornell University Extension
https:/ / extension. unl. edu/ statewide/ lincolnmcpherson/ Cornell\%0Guide\%20t o\%20Companion\%20Planting.pdf
7. Montana State University Extension https:/ / www. montana. edu/ extension/ broadwater/ blog-article. html ?id=18786
8. University of Florida Extension https:// sfyl. ifas. ufl. edu/ sarasotadocs/ ag/ OrganicVegetableGardening CompanionPlanting.pdf
9. Garden Insects of North America by Whitney Cranshaw and David Shetlar

## What is Companion Planting?

The Wildlife Gardening Forum defines
Companion planting as "the growing of different plants species close together for expected benefits in productivity through pest control, pollination, boosting fertility, and creating optimum growing environments."

## What is Companion Planting?

The most classic example is the Three Sisters technique that originated in Mesoamerica.

- Corn - pole \& cover
- Pole beans - nitrogen fixers
- Squash - ground cover \& repellant


## What is Companion Planting?

- It is a mix of crops, herbs \& flowers
- Advantages include:
- Pest control
- Pollination
- Boosting fertility
- Creating optimum growing environments


## What else do you need to consider when planning?

Before you start
$>$ Crop rotation
$>$ Feeding your soil
$>$ Watering plan
> Location / sunlight

Advanced Planning
$>$ Ground covers
$>$ Intercropping
$>$ Cover crops
$>$ Trap crops

## Sample Row Plan



## Carrots \& Scallions



Crop Companions:

- Onions \& leeks
- Tomatoes
- Peas

Flower Companions:

- Calendula, chamomile, daisies

Herb Companions:

- Caraway, coriander, sage
- They dislike dill



## Peppers \& Zinnias

Crop Companions:

- Other members of the tomato family, tomatoes, eggplants
Flower Companions:
- Marigolds
- Cosmos
- Tall aster family flowers
Herb Companions:
- Coriander

- Fennel
- Basil


## Peppers \& Zinnias And other flowers for bouquets



## Peppers \& Zinnias



## Peppers \& Zinnias



## Cucumbers (I ntroverts!)

Crop Companions: Cabbage, radishes and leafy greens.
Flower Companions:
Nasturtiums and marigolds.
Herb Companions:
Cucumbers do not like aromatic herbs.


## Potatoes \& Green Beans

Crop Companions: Potatoes, beans \& peas, cucumbers and strawberries. No onions.
Flower Companions: Calendulas, cosmos, daisies Herb Companions: Dill, rosemary


## Potatoes \& Green Beans



## Potatoes \& Green Beans



Flea Beetle damage on potato leaves, even though they are right next to sage.




## Squash

Crop Companions: Three sisters - squash, corn \& pole beans
Icicle radishes

Flower Companions:
Nasturtiums, marigolds and sunflowers

Herb Companions: Dill




## Tomato \& Asparagus

Crop Companions: Leafy greens, tomatoes, asparagus, and carrots grow well together.

Flower Companions: Cleome, cosmos, Queen Anne's lace, tall asters, sweet alyssum

Herb Companions: Basil, parsley, marigolds


## Tomato \& Asparagus



Tomatoes recently liberated of lower leaves to allow the plant to breathe, reduce disease spread and to give the basil room to grow.



## Tomato \& Asparagus

Thai basil on left

Genovese basil on the right

ER



## Tomato

 \& Asparagus

Corn earworm or tomato fruitworm on right.


Yellow garden spider on the left.

## Sweet Potatoes

- Crop Companions: Potatoes, runner or pole beans and radishes
- Flower Companions: White hellebore
- Herb Companions: Basil, Dill and strong aromatic herbs



## Sweet

## Potatoes



Freshly dug sweet potatoes, surrounded by Sweet Alyssum.

The dill has made it above the vines here, so it will thrive.


## Leafy Greens



Crop Companions: Lettuce and brassicas go well together along with carrots and onions.

Flower Companions: Short varieties of asters and cosmos

Herb Companions: Dill, fennel, caraway and chamomile

## Leafy Greens




## Garlic

Crop Companions: Most crops except beans and peas



## Garlic

$>$ The garlic bed is open by the end of J une.
$>$ Either let the companion flowers go wild (pictured!)
$>$ Or work on intercropping with a fall crop that can be started in J uly.

## Onion \& Cosmos



Crop Companions: Cabbage, beets, strawberries, tomatoes and lettuce.
They do not like peas and beans.

Flower Companions:
Cosmos \& asters (short!)

Herb Companions:
Dill, fennel, caraway, chamomile



# Sugar Snap \& Snow Peas 

Intercropping example


# Strawberries, Blueberries, Thyme \& Scallions 

Crop Companions: Strawberries, blueberries, and scallions
Flower Companions: Borage (in moderation), white hellebore, marigolds

Herb Companions: Thyme, dill, coriander, fennel


## Raspberries (Bullies!)

- Companions are difficult for this
- Do not plant near blackberries
- Do not plant red varieties near purple or black raspberries




## Garden Bullies

## Sunflowers, Cone Flowers, Oregano



## Garden Bullies

Horseradish \& Chamomile



# Garden Bullies 

## Calendula



# Garden Bullies 

## Borage



## In the end, it is beautiful!





## Q \& A

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