

This guide provides information on common edible herbs, vegetables, and berries with height, recommended spacing, sun needs, and where applicable, the size and color of fruit.

Companion plants can aid plant growth by providing extra resistance to pests or improving flavor. Companion plants are listed where available, as well as non-compatable plants, which should not be planted near the selected plant. The hardiness level of plants is based on our location in Urbana, IL, which is Zone 5b.

A grid page allows space for planning and an extra grid for larger spaces is located at the back of the document.

Spacing can be flexible and recommendations in this chart are not equivalent to square foot gardening.

## KEY GARDENING TIPS

$\checkmark$ Plan your garden ahead of time.
$\checkmark$ Use fertilizer and amendments such as compost, worm castings, or other organic soil matter.

Avoid putting fertilizer directly on the plant roots, stems or seeds.
$\checkmark$ Try not to plant the same vegetable in the same location every year, as this can deplete the soil of specific nutrients as well as increase susceptibility to recurring pests.
$\checkmark$ Avoid overwatering. You will know you're overwatering when the soil is always wet.
$\checkmark$ Thin out plants when small to avoid hurting roots and crowding plants.
$\checkmark$ Eliminate weeds before they take over.
$\checkmark$ When possible, water in the morning to allow moisture time to soak into the soil before evaporating and to allow leaves to dry.

## CHOOSING A LOCATION

Choose a garden spot with full or near full sunlight for best results. Soil should be well drained and not shaded or competing with trees and shrubs. If space is an issue, some spots with light shade can still be used. Plants grown for their leaves or their roots can often tolerate some shade.

If the soil does not drain well, consider amending the soil to lighten it or using raised beds.

## TYPES OF SOIL

Loam is a great growing soil. It holds its shape when compressed and crumbles when compressed further. It is composed of sand, clay, silt, and organic material. If you're starting with this soil, you're in good shape, although a good compost is beneficial to any soil.

Clay-heavy soil is likely to be slow draining. When compressed, it creates a dense material that is difficult for plants. It tends to hold water and also stays colder for longer as the temperature warms in the spring. Clay soil needs amendments which help it to be lighter and drain well.

Sandy soil drains very easily and holds less nutrients. It must be fertilized and watered more often. It has a tendency to erode and warms quickly. Sandy soil does not compress into a compact shape. This type of soil needs amendments that help it to retain moisture and improve nutrients.

## Amendments for loosening heavy soil:

Peat moss, manure, compost
Amendments for helping soil to retain moisture: Manure, peat moss

Amendments for enriching the soil:
Compost, manure

## IMPROVING YOUR SOIL

## FERTILIZER

On most fertilizers, you will see a set of numbers. These numbers are the NPK ratio and represent the percentage of nitrogen, phosphate, and potash, which are nitrogen, phosphorus and potassium.

Nitrogen ( $\mathbf{N}$ ) is necessary in order for plants to grow. Adding nitrogen helps plants grow quickly but too much can result in a lack of flowers or fruit. On tomatoes, too much nitrogen will give you a leafy tomato plant with no vegetables. On spinach, it might be exactly what you want.

Phosphorus ( $\mathbf{P}$ ) aids in root growth, development of flowers. Too much phosphorus creates a lack of growth and too little can mean dead leaves. This ingredient is especially nice for plants that produce fruit or plants that have edible roots.

Potassium (K) aids in development by controlling the plant's carbon dioxide intake and helping the plant to be healthier. Too much potassium can block nitrogen and phosphorus and too little can lead to unhealthy plants that struggle with disease.

A fertilizer with a 2-4-2 number would have 2\% nitrogen, $4 \%$ phosphorus, $2 \%$ potassium, and $92 \%$ filler. Natural fertilizers often have lower numbers. The number system is based on nutrients that are immediately available in the fertilizer, and many nutrients from natural products take some time to process in the soil as a more slow-release type of fertilizer.

## AMENDMENTS

Fertilization is great for your plants, but if your soil isn't draining or able to retain nutrients, it will do little to maintain the health of the plants.

Adding organic matter is a great way to balance the soil so that it drains, provides nutrients, and holds the right amount of moisture.

We stock Better Earth compost, a plant-based compost from Peoria, IL that is made of organic ingredients for adding nutrients, retaining moisture, and suppressing pests and disease. In a soil blend, mix no more than $30 \%$ compost into the soil. In raised beds, mix no more than $25 \%$ compost. Worm Castings are another great addition which can be added into the soil at the time of planting for a natural fertilization.

We also carry peat moss, which is a great all purpose growing medium that can be added into the soil. Our varieties of peat moss include options with and without fertilizer.

1 foot $=$ $\qquad$


Edible Herbs

| PLANT | SIZE | SPACING | SUN | $\begin{aligned} & \text { POLLINATION / } \\ & \text { PESTS } \end{aligned}$ | COMPANIONS | NOT <br> COMPATIBLE | HARDY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Basil | 12－36＂ | 4－8＂ | ＂ | Bees，butterflies， deer resistant | Tomatoes | Sage | No |
| Cilantro－Calypso | 12－18＂ | 2＂ |  | Butterflies | Basil，Parsley |  | No |
| Dill－Fernleaf | 36－54＂ | 18＂ | ： ＂心 $^{\prime \prime}$ | Deer resistant |  | Fennell | Can self seed |
| Lemon Balm | 24－36＂ | 20－24＂ |  | Bees，resists deer | Most plants |  | Yes |
| Lemongrass | 36－60＂ | 24－36＂ | ： ＂心 $^{\prime \prime}$ | Bees，resists deer |  |  | No |
| Oregano | 12－24＂ | 8－10＂ | 管 | Bees，resists deer |  |  | Can self seed |
| Parsley－Italian | $24^{\prime \prime}$ | 12－24＂ | $\begin{aligned} & \text { 消 } \\ & \text { 涣: } \end{aligned}$ | Bees， hummingbirds | Tomatoes，Corn，Asparagus | Mint，Lettuce | Biennial |
| Pineapple Mint | 12＂ | 18－24＂ |  | Bees，butterflies， hummingbirds， resists deer | Oregano，Marigolds |  | Yes |
| Rosemary | 36＂ | 8－24＂ |  | Bees，butterflies， resists deer | Cabbage，Beans，Sage，Carrots |  | No |
| Sage | 24＂ | 20＂ | ＂Ơ＂： | Bees，resists deer |  |  | Some |
| Tarragon－French | 18－24＂ | 18－24＂ |  | Resists deer |  |  | Yes |
| Thyme－Summer | 6－12＂ | 12－18＂ | ：＂\％＇： | Bees，resists deer | Tomato，Eggplant，Potato， Blueberries，Strawberries |  | Yes |

## Vegetables

| PLANT | SIZE | SPACING | FRUIT | SUN | $\begin{aligned} & \text { POLLINATION / } \\ & \text { PESTS } \end{aligned}$ | COMPANIONS | NOT <br> COMPATIBLE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Bell Pepper－Better Belle | 24－30＂ | 18－24＂ | $\begin{aligned} & \text { Green / } \\ & 3.5-4.5 \text { "' } \end{aligned}$ | 言: | Self pollinating | Basil，Chives，Dill，Parsley， <br> Tomato，Garlic，Eggplant，Onion | Hot <br> Peppers |
| Bell Pepper－ Golden California | 22－26＂ | 18－24＂ | Yellow / $4-5^{\prime \prime}$ | "ƠOX, E | Self pollinating | Basil，Chives，Dill，Parsley， Tomato，Garlic，Eggplant，Onion | Hot <br> Peppers |
| Jalapeño－Early Hot | 14－18＂ | 18－24＂ | Green／ $3^{\prime \prime}$ | 言 | Self pollinating | Basil，Chives，Dill，Parsley， <br> Tomato，Garlic，Eggplant，Onion | Sweet <br> Peppers |
| Pepper－ <br> PeppiGrande Red Sweet | 30－34＂ | 18－24＂ | $\begin{aligned} & \text { Red / } \\ & 5-6^{\prime \prime} \end{aligned}$ | 歀: | Self pollinating | Basil，Chives，Dill，Parsley， <br> Tomato，Garlic，Eggplant，Onion | Hot <br> Peppers |
| Pepper－ <br> Sweet Banana | 18－24＂ | 18－24＂ | $\begin{aligned} & \text { Yellow / } \\ & 6 \times 1.5 " \end{aligned}$ | 帚: | Self pollinating | Basil，Chives，Dill，Parsley， <br> Tomato，Garlic，Eggplant，Onion | Hot <br> Peppers |
| Pepper－Sweet California Wonder | 18－24＂ | 18－24＂ | Red \＆ Green／ 3．5－4＂ | 言 | Self pollinating | Basil，Chives，Dill，Parsley， Tomato，Garlic，Eggplant，Onion | Hot <br> Peppers |
| Tomato－Amish Paste | 36－42＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 8-12 \mathrm{oz} \end{aligned}$ | ＂\％\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Better Boy Slicer | 36－40＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 16 \mathrm{oz} \end{aligned}$ | 言 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Big Beef Beefsteak | 5－7＇ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 12-16 ~ o z \end{aligned}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Big Daddy Slicer | 5＇ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 15 \mathrm{oz} \end{aligned}$ | 㒷 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Brandywine Beefsteak | 40－48＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 14 \mathrm{oz} \end{aligned}$ | ＂\％\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Bush Early Girl Slicer | 6－8＇ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 6-8 \text { oz } \end{aligned}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Celebrity Slicer | 36－48＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 7-8 \mathrm{oz} \end{aligned}$ | 滑 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－ Cherokee Purple Beefsteak | 4－6＇ | 24－36＂ | Deep Red／ 10－12 oz | 象 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Fourth of July Slicer | 55＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 4 \mathrm{oz} \end{aligned}$ | :ƠO: | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Fresh Salsa Paste | 36－40＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 4-5 \text { oz } \end{aligned}$ | ＂\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Health Kick Cherry | 24－30＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 4 \mathrm{oz} \end{aligned}$ | 举 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Husky Red Slicer | 48＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 7 \mathrm{oz} \end{aligned}$ | "⿳亠二口犬彡: | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |

## Vegetables

| PLANT | SIZE | SPACING | FRUIT | SUN | $\begin{aligned} & \text { POLLINATION / } \\ & \text { PESTS } \end{aligned}$ | COMPANIONS | NOT <br> COMPATIBLE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tomato－Lemon Boy Slicer | 6－8＇ | 24－36＂ | Yellow／ 7 oz |  | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Mobey Grape | 24－36＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 2^{\prime \prime} \end{aligned}$ | ＂\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Mr．Stripey Beefsteak | 8－10＂ | 36＂ | Red \＆ Yellow／ 12－24 oz | ＂： | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Patio Cherry | 24＂ | 18－24＂ | $\begin{aligned} & \text { Red / } \\ & 3-4 \mathrm{oz} \end{aligned}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Red Grape | 48－60＂ | 24－36＂ | Red／ $\text { . } 5-3 / 40 z$ | ＂Ö＇心 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Roma Paste | 4－6＇ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 3 " \end{aligned}$ | 举 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Rutgers Slicer | 4－5＇ | 24－36＂ | Red/ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－San Marzano Paste | 4－6＇ | 18－24＂ | $\begin{aligned} & \text { Red / } \\ & 5-6 \mathrm{oz} \end{aligned}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Sungold Cherry | 48－60＇ | 24－36＂ | Yellow／ $1 \mathrm{oz}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Sunsugar Cherry | 7－9＇ | 36＂ | Yellow／ ．5－1＂ | ＂Ö＇ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Super Sweet Cherry | 60－72＂ | 36＂ | $\begin{aligned} & \text { Red / } \\ & 1 \mathrm{oz} \end{aligned}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Sweet 100s | 8－12＂ | 36＂ | $\begin{aligned} & \text { Red / } \\ & 1 \text { '" } \end{aligned}$ | 举 | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Tiny Tim Cherry | 12＂ | 18－24＂ | $\begin{aligned} & \text { Red / } \\ & 3 / 4-1^{\prime \prime} \end{aligned}$ | ＂O\％ | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Tumbler Cherry | 24－28＂ | 24－36＂ | $\begin{aligned} & \text { Red / } \\ & 1-2^{\prime \prime} \end{aligned}$ | 滑: | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Tomato－Tumbling Tom Cherry | $\begin{aligned} & 6-8 \text { ' H x } \\ & 30 \text { " } \mathrm{L} \end{aligned}$ | 10＂ | Yellow／ 1－2 oz | :ƠO: | Self pollinating | Peppers，Basil，Parsley，Garlic | Cabbage， Fennel， Broccoli |
| Eggplant－Asian Delite | 24－42＂ | 24－36＂ | Purple／ $9-12^{\prime \prime}$ | 㒷 | Self pollinating | Tomatoes，Peppers，Potatoes |  |
| Watermelon－Sugar Baby | Vine | 2＇－hills <br> 6＇－rows | Dark Green／ 8－10 lb | ＂ƠO | Self pollinating | Tomatoes |  |

Vegetables

| PLANT | SIZE | SPACING | FRUIT | SUN | COMPANIONS | NOT COMPATIBLE |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Zucchini－Golden | 24－30＂ | 36＂ | Yellow／6－8＂ | 滑 | Beans，Dill，Garlic，Marigolds， Mint，Oregano |  |
| Zucchini－Dark Green | $24^{\prime \prime}$ | $\begin{aligned} & \text { Row }-4-6^{\prime \prime} \\ & \text { (thin) } \\ & \text { Hill }-6 \text {, } \end{aligned}$ | Green／8－10＂ | ＂\％ | Beans，Dill，Garlic，Marigolds， Mint，Oregano |  |
| Zucchini－Easy Pick Squash | 36－52＂ | 48＂ | Gold／6－10＂ | ＂\％＇ | Beans，Dill，Garlic，Marigolds， Mint，Oregano |  |
| Squash－Butternut | 24－48＂ | 8＇hills | Tan，12－18＂ | 佥 | Corn，Lettuce，Melons，Peas | Cabbage，Potato |
| Squash－Early Prolific Straightneck | 24－30＂ | 3＇hills | Yellow／6－8＂ | 浸三＇ | Corn，Lettuce，Melons，Peas | Cabbage，Potato |
| Swiss Chard－White Giant | 24－30＂ | 12－18＂ | Green \＆White | ＂：\％ | Cabbages，Herbs，Lettuce | Pole beans， spinach， sunflowers |

## Berries

| PLANT | SIZE | SPACING | SUN | COMPANIONS | NOT COMPATIBLE |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Blackberry－Triple Crown | 5＇x5＇ | 3＇ | ＂Ö＂： | Blueberries，Bee Balm，Mint，Lemonbalm |  |
| Blueberry－Blue Crop | 8＇x8＇ | 4－8＇ | 迷＂O\％ | Basil，Thyme |  |
| Blueberry－Bluejay | 7＇x4＇ | 4－8＇ |  | Basil，Thyme |  |
| Blueberry－Duke | 7＇x7＇ | 4－8＇ |  | Basil，Thyme |  |
| Blueberry－Sweet Heart | 3＇x3＇ | 4－5， |  | Basil，Thyme |  |
| Raspberry－Heritage | 5＇x2＇ | 3－4＇ | 滑" | Yarrow，Artemesia，Chamomile，Onions， Garlic，Chives | Potatoes，tomatoes，eggplant， strawberries（all within 5 years） |
| Raspberry－Red Heritage | 5＇x2＇ | 3－4＇ | Bơ: | Yarrow，Artemesia，Chamomile，Onions， Garlic，Chives | Potatoes，tomatoes，eggplant， strawberries（all within 5 years） |
| Raspberry－Latham | 5＇x2＇ | 3－4＇ | 㴆我 | Yarrow，Artemesia，Chamomile，Onions， Garlic，Chives | Potatoes，tomatoes，eggplant， strawberries（all within 5 years） |
| Raspberry－Black Jewel | 3＇x3＇ | 3－4＇ | : | Yarrow，Artemesia，Chamomile，Onions， Garlic，Chives | Potatoes，tomatoes，eggplant， strawberries（all within 5 years） |
| Raspberry－Jewel | 3＇x3＇ | 3－4＇ | Bơo | Yarrow，Artemesia，Chamomile，Onions， Garlic，Chives | Potatoes，tomatoes，eggplant， strawberries（all within 5 years） |
| Strawberry－All Star | 9＇x18＂ | 12＂ |  | Lettuce，marigolds，onions，chives， sage，spinach | Tomatoes，melons，peppers， mint，eggplant，okra，potatoes |
| Strawberry－Jewel | 9＂x18＂ | 12＂ | 滑会 | Lettuce，marigolds，onions，chives， sage，spinach | Tomatoes，melons，peppers， mint，eggplant，okra，potatoes |



