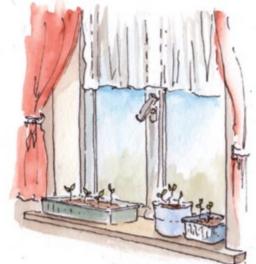
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Sowing, Seedlings and Planting

Some plants can go straight to your garden patch, while others need to be sprouted first. High quality seeds are needed for healthy plants and a fruitful harvest.





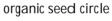
Organic seeds

Always use organic and biologically active seeds. It's best to get them from a fellow organic gardener. These types of seeds develop into plants that have a better genetic code. Not only are they stronger than genetically modified ones, your plants will have a much higher micronutrient content.

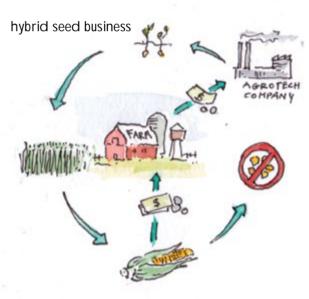


Hybrid seeds are artificially bred and can't reproduce naturally. So farmers who use them are forced to buy new seeds every year. This means they are kept economically dependent on the big seed companies. Such a business model only benefits the companies selling the seeds, it doesn't benefit us as gardeners and consumers.





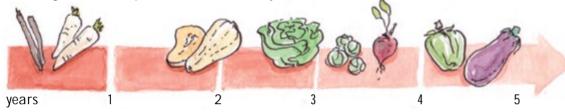




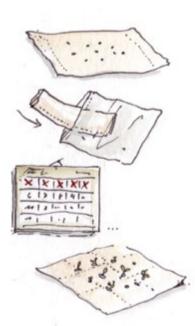
Hybrid seeds produce plants that are low in micronutrients. They have a weak immune system, they taste bland, and don't contribute to a wellbalanced diet. When you buy seeds make sure they have a small 'F' after their name. The F stands for 'Filia', which is Latin for 'daughter'. These plants have a natural 'mother' plant and are not genetically modified. It's a sad fact that 70% of all vegetable plants in supermarkets today come from hybrid seeds.

Germinability

The germinability of a plant varies according to its type. For example, eggplants and green peppers have a long germinability; their seeds stay fertile for up to five years. Seeds for cabbage, butternut, cucumber, pumpkin, lamb's lettuce, Brussels sprouts and beetroot stay fertile for up to 4 years. Those for chives, parsnips and black salsify have a shorter germination period of less than a year.



If you have some seeds and don't know how old they are, don't panic! Here are four steps to help you find out whether you can still use them:



- 1. Take 10 seeds out of the packet and put them on a wet paper towel.
- 2. Wrap the paper towel carefully and put it in a plastic bag.
- 3. Store the bag in a warm place.
- 4. Wait for five days, then open the bag.

About 8 seeds from the 10 should have enlarged or sprouted. If there are 6 or less, your seeds are of low quality and don't have the right germinating power. Low quality seeds develop into weak seedlings and plants.



Seedling soil

The first soil your seeds are planted into should be a mixture of compost, sand and rock flour. To prepare this you will need a sifter, a spade and a wheelbarrow. Slowly push the compost through the sifter. Make sure it gets soft and has no chunky parts in it. Mix one third of sand with a bit of rock flour, this will give you the right mineral level. Congratulations, your baby plant nursery soil is now ready for use!

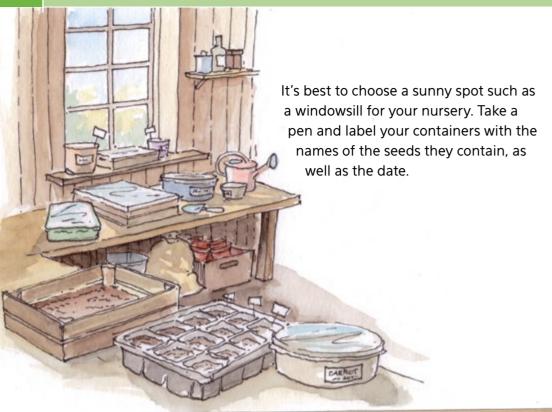


By the way: The soil in molehills is of excellent quality! So if you get molehills in your garden, add the soil from them to your nursery mix.

Pots and sowing boxes

Old wooden boxes make great sowing boxes, just put a few pieces of paper at the bottom to store water. Plastic cans, glass jars or cartons can be used as well.





While filling the containers make sure to firmly squeeze the soil at the edges, as it will sag when watering. Press the soil gently with a piece of wood.

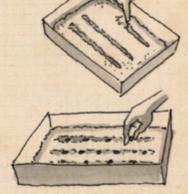




Then take a small kitchen sifter and scatter a thin layer of soil on top.

Next, use your finger to draw a fine line in the soil.

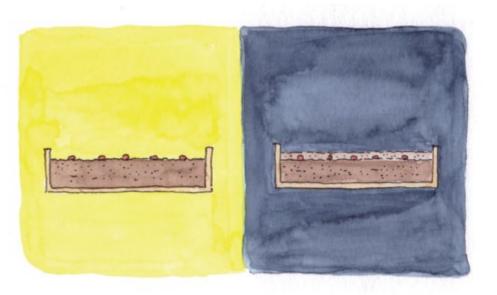
Take the seeds and place them one by one into the line you drew. The correct distance to leave between each seed varies. For example, while smaller plants and herbs such as parsley and chives don't need a lot of space, pumpkins or beans do.



See the table at the end of this chapter for more details.

Light or dark sprouting

There are basically two different types of sprouts: ones that grow best in the dark, and ones that prefer light. The ones that grow best in the dark include green peppers, tomatoes, cabbages, leeks, cucumbers, pumpkins, and flowers such as tulips and lilies. Sprouts that prefer growing in the light include basil, all types of salads, carrots, radishes, celery and peony. You will usually find a set of instructions on the seed packet that give an indication of which growing conditions they prefer.



It's important to know that sprouts preferring light are best left uncovered, you just need to sprinkle a bit of lukewarm rainwater on top of them.

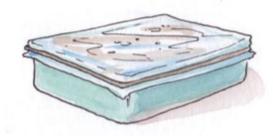
For sprouts that prefer the dark, cover them with a thin layer of soil before adding the water. You will usually find a set of instructions on the seed packet that give an indication of which growing conditions they prefer.

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Watering

Adding water to your seeds should be done very gently. You need a small watering can with a soft sprinkler and some rain- or river water. Try to avoid tap water as it often contains chemicals and chlorine, which are poisonous for baby plants.





Only add enough water to make the soil moist, but not wet. After watering, place a thin layer of plastic over the top of the container. This will store moisture and keep the soil warm. These are ideal conditions for sprouting.

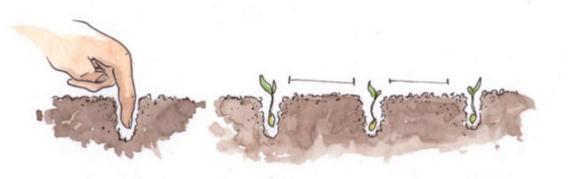
Keep a close eye on your container and check it daily. When the first small sprouts appear, remove the plastic. It takes a lot of strength for young seedlings to push through the soil. Gentle rinsing with water helps to remove soil from their delicate first leaves. Make sure your containers are in a light spot that doesn't have too much direct sunlight.

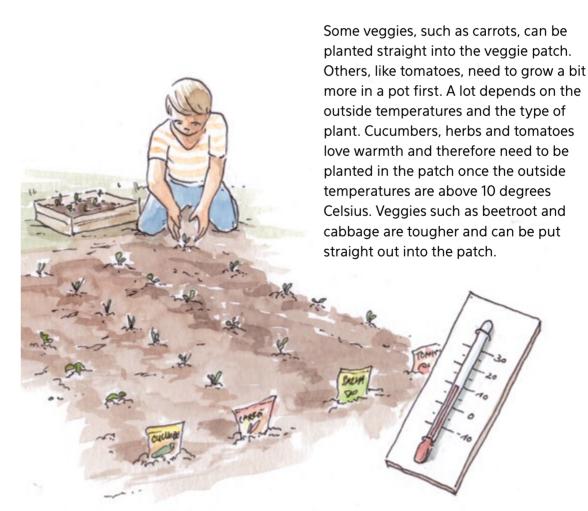
Selection of seedlings

After one or two weeks the seedlings are ready to be selected and planted in bigger pots before moving them into your garden patch. Only use the biggest and strongest seedlings, the rest can be added to your compost heap.



Put two or three seedlings together in one container and make sure they have enough space to grow. Push your finger a few centimeters into the soil to form a hole, then put the seedling in it. Place the seedlings in the same size space they had when they were sprouting.



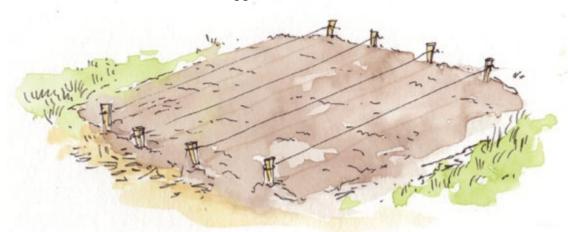


Preparing the patch

Start to clean the patch with a fork and hoe and make sure to remove all the weeds. The deeper roots of the weeds must be removed carefully. If you don't do this the weeds will grow again. Make the entire soil area loose and smooth without any chunks. If you can easily dig your hand into the soil up to the wrist then it is ready for planting. You should begin by sprinkling a thin layer of compost on top.



Take a large broomstick and make long rows in the patch. Make sure the rows are straight, later on this will help you to differentiate between weeds and plants. If the patch is very large you can use some sticks and stretch a string between them to mark out your rows. Leave some distance between the rows as this will ensure your plants have enough space to develop properly. The table shows the various growing requirements for most common veggies.



| Plant | Plant seed- lings, or straight to the patch? | Sprouting period -days | Distance between plants / rows | Timeline | Blossoming | Lifespan |
|--------------------|---|------------------------|---|--|------------------------|---------------------------|
| Artichoke | seedlings | 8-12 | 39 x 39 inches | February to April sowing; mid May to mid June seedlings | July-September | annual and biennial |
| Eggplant | seedlings | 6-8 | 19 x 19 inches | March to April sowing; May to June seedlings | July-August | annual |
| Cauliflower | seedlings | 4-6 | 19 x 23 inches | February to July sowing; May to June seedlings | July-September | biennial |
| Beans | patch | 8-14 | 40 x 15 inches | April to June | June-Septem- ber | annual |
| Broccoli | seedlings | 4-6 | 19 x 15 inches | April to June sowing; April to July seedlings | June-October | annual and biennial |
| Chinese cabbage | seedlings | 4-6 | 12 x 12 inches | June sowing; July to August seedlings | July-September | annual and biennial |
| Peas | patch | 8-12 | 15 x 3 inches | March and April | May, June | annual |
| Lamb's lettuce | patch | 5-25 | 6 x 8 inches | August and Sep- tember | April, May | annual and biennial |
| Fennel | seedlings | 12-16 | 19 x 8 inches | May to August | July-October | annual |
| Kale | patch | 4-5 | 16 x 18 inches | April to June | August, Sep- tember | annual and biennial |

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| Plant | Plant seed- lings, or straight to the patch? | Sprou- ting period -days | Distance between plants / rows | Timeline | Blossoming | Lifespan |
|--------------------|---|-----------------------------------|---|---|---------------------|----------|
| Cucumber | patch | 4-8 | 16 x 24 inches | April to June | July, August | annual |
| Potato | bulb | | 24 x 12 inches | April to May; harvest Sept | June | annual |
| Kohlrabi | patch | 8-10 | 14 x 16 inches | March to June | June, July | biennial |
| Garlic | bulb | - | 10 x 5 inches | March to September | June to August | annual |
| Cress | patch | 2 | wide sewing | Whole year indoors | June, July | annual |
| Leeks | patch | 14-16 | 8 x 10 inches | April to July | June, July | biennial |
| Swiss chard | patch | 8-10 | 10 x 6 inches | March to June and September to Spring | June-Septem- ber | biennial |
| Carrots | patch | 21-28 | 10 x 2 inches | March to May | June, July | biennial |
| Green pep- pers | seedlings | 8-12 | 20 x 16 inches | January to April sowing; May and June seedlings | June, August | annual |
| Turnips | patch | 21-28 | 12 x 4 inches | March to May | August | biennial |
| Radishes | patch | 8-14 | 5 x 2 inches | March to August | June-August | Annual |

| Plant | Plant seed- lings, or straight to the patch? | Sprouting period –days | Distance between plants / rows | Timeline | Blossoming | Lifespan |
|------------------|---|------------------------|---|--|------------------------------------|-----------|
| Rhubarb | patch | | 30 x 30 inches | March to April | May | perennial |
| Horseradish | patch | 14-21 | 10 x 4 inches | March to August | August | biennial |
| Red cab- bage | seedlings | 5-6 | 20 x 24 inches | March to May sowing; May and June seedlings | August | biennial |
| Beetroot | patch | 10-15 | 12 x 4 inches | March to May | June-October | annual |
| Lettuce | seedlings | 6-10 | 12 x 12 inches | January to March sowing; April to July seedlings | June-September | annual |
| Black salsify | patch | 15-20 | 10 x 2 inches | March to April | August | biennial |
| Celery | patch | 12-15 | 15 x 20 inches | March to June | August- November | annual |
| Spinach | patch | 8-14 | 8 x 10 inches | March to April and September to October | May, June, October- November | annual |
| Tomato | seedlings | 6-8 | 24 x 20 inches | April sowing; May and June seedlings | July-October | annual |
| Zucchini | seedlings | 5-8 | 24 x 30 inches | April and May sowing, June and July seedlings | August, Sep- tember | biennial |
| Onions | patch | 14-21 | 10 x 4 inches | March and April | June to October | biennial |

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