40 years, and begin producing nuts 5.6 Carragana Peashrubs within 3-6 years. They can tolerate partial shade.

5.2 Prunus Japonica (Yellow Plums)

(Zones 5-9) Trees can grow up to 5-7 meters tall and live for 20-30 years. They typically begin producing fruit 5.7 Korean Pine Nuts within 3-6 years. They prefer full sun.

Plums)

(Zones 5-9) Blue plum trees can grow up to 6-9 meters tall and live for 20-30 years. They typically begin pro- 5.8 Honey Locust ducing fruit within 3-6 years. These trees prefer full sun and are often (Zones 4-9) Honey locust trees can self-fertile, although cross-pollination grow up to 20-30 meters tall, live with another cultivar can result in a for 30-70 years, and take 10-12 years better fruit yield.

Plums)

known as Canada plums, can grow up canopy. to 4-8 meters tall and live for 20-30 years. They typically begin producing fruit within 3-5 years. These trees 6 Contact prefer full sun and are generally selfpollinating, but cross-pollination with another cultivar may improve fruit Can find more food forest information production.

5.5 Northern Hardy Pecans

(Zones 5-9) Pecan trees can grow up to 20 meters tall, live for over 150 @lyis.ca years, and start producing nuts within 6-10 years. They prefer full sun. Sup-to the balanced fertilizer

(Zones 2-7) These shrubs can grow up to 3-5 meters tall, live for 20-50 years, and start producing pea-like pods within 2-3 years. They can tol-

(Zones 3-7) These trees can grow up to 5.3 Prunus Domestica (Blue ²⁵ meters tall, live for over 200 years, and take 10-12 years to begin producing nuts. They prefer full sun.

to begin producing seed pods. They are adaptable to various sun expo-5.4 Prunus Canadensis (Red sures and soil conditions, and are generally low-maintenance. Prune to remove any unwanted thorns or (Zones 3-8) Red plum trees, also lower branches, and maintain an open

Andrii Logan Zvorygin on our website https://lyis.ca

LyisForestry

Lyis: Food Forestry, 2023 Season

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food forest communities where all of honey locust (25m high), korean pine our needs can be met on site." - Age nut (20m high), osage orange (15m

Ideally if one is to grow all their own food, fuel and clothing in Greying which start to yield after 10-Bruce one needs at least 1.2 hectares 20 years, can interplant with annu-(3 acres) per person. Ideally have als, herbacious perennials and shrubs enough land for a whole community which will start to yield within 1-7 averaging 60 people. To produce vears. enough food to feed a 75kg human for a year need to at least cover an area of 0.25 hectare with fruit pro- 1 Soil Type duction, that would be for example either 80 mature oak trees or 400 The first step to planting a permaculhazelnut shrubs. The permaculture ture food forest is understanding your vision is to grow in a series of con- soil type. In Canada the most comcentric circles or rectangles based on mon type of soil is acidic sandy loam adult height of the plants. For ex- but in Grev-Bruce is alkaline heavy ample near the community centre you loam, usually either clay loam or silt have a meadow, then around it a veg-etable garden, then herbacious peren-loam loam, if it is brown then it is einials (up to 2m high), then berries, ther sandy loam or heavy loam. dwarf fruit and hazelnut shrubs (2-5m If your soil is yellow or white due to high), then a short rotation coppice of sand, then it is sandy soil. Once your willow and alder (5-10m high), then sandy soil has enough organic matter standard fruit trees, pear, persimmon, that it turns brown, then it graduates mulberry (10-20m high), then a long to being sandy loam. Once it turns rotation coppice of lumber trees such black then it becomes loam. as ironwood, maple, beech (25-30m If your soil is red or grey and very high), then the staple crops of acorns, hard to dig, then it is likely heavy clay. walnuts, pecans (30-50m high), then You can verify by taking a handful to keep out predators and large her- while it is wet and if you can make

"The vision of the New Eden is mixed with staples, such as thorny high), seabuckthorn/hawthorn (5-7m high), raspberries (1-2m high).

While the larger staples are grow-

bivores the forest descends in height pottery out of it, then it is definitely using various thorny border plants heavy clay. If your soil has enough to loam.

2 Plant Anatomy

Relative to humans plants are somewhat upside down. Their arms and brains are actually in their root system, and they have all the same types of neuron recentors. With their forest. communication and nutrient transport system happening through the mycorhizal network. So when transplanting plants, do attempt to maintain as much of the root system and soil as feasible. The stem is their legs, with their gentials being their flowers and fruit.

3 Planting

to plant them, and make sure they to get it right. have enough water. Ideally you would You can add some cardboard

Find a suitable location where you will be planting them, with appropriate light levels, typically either full sun (sun 8-12 hours a day), or partial Do not use any strong fertilizers or shade (sun 4-8 hours a day). For plant manure when they are young, as it can

you are planning on removing later, only not the leaves, as fertilizer water you can plant on the south, east or can burn the leaves. You can also use

organic matter that it is brown and west side of them, and they will profriable, meaning that it has a ten- vide some support for your new plants dency to fall apart instead of stick to- until they get big enough. Seedlings gether, then it is heavy loam. If it has like having a mother plant nearby, to turned black from the organic matter protect them from winter winds, proand drains well then it has graduated vide some shade thereby inreasing soil moisture, and lowering the soil temperature.

Then dig a small pit the depths of your container, typically one trowel depth or 15cm, and one trowel width. If your soil is too thin can berm when you're planting. Clear around your pit roughly 15-30cm of any vegetation that may be there, and put it down as mulch.

Put the plant fabric pot in the pit, and make sure it fits easily. Then backfill around it with the soil you due out. If your soil is not deep enough to fit the all of the pot up to the soil level, then berm around the pot, by ing it into a little hill going up to the soil level in the pot.

After it is all in, then water the plant near its roots and the surrounding soil. The soil may settle somewhat Put your plants in a safe semi- if there were air pockets in it, and so shady location until you are ready you may need to add a little more soil

plant within a few days of receiving mulch around if your soil is sandy or liable to dry out.

spacing you can go by the height of the burn them. At most can use ones with plant when it is mature or less, mini- hydroponic dilution rates 1g of NPK mum spacing being 30cm. Though for per 4L of water for general growth hazelnuts recomendation is 4m spac- (April-July), or can use 1g of PK per ing, and for most trees 5m spacing. 4L of water to encourage root growth If you have some trees or shrubs (August-September). Water the roots a slow release fertilizer in spring.

ers nearby and do Not clean or mow God in their life. the area, since beneficial insects hiberbelow ground.

3.3 Potting

While some people like to grow their plants in pots, that can stunt their General Care Instructions: For most growth, it is best to plant them in plants, choose a location with wella potted plant.

4 Plant Care

The main thing is to give your plants ments as needed. Most trees require love. Walk about your food forest cross-pollination with another cultivar at least once a week or so, and let for successful fruit production. your mind be stilled by the beauty and the splendor of God's creation. Then 5.1 Corylus Americana Hazelnotice any little voice of the plants, animals, or holy spirit calling out to you, where something may need some (Zones 4-9) Hazelnut trees can grow

one needs to be bermed as they are inundated. Perhaps they are getting too much shade, or not enough, per-If you have herbivores such as rabbits haps they need protection from deer. or deer in the area. Then you will Perhaps they just need some loving raneed to put up some fencing around diance and a gentle stroking of their your plant, secured by a pole to make leaves. Let the plants speak to you, sure the animals do not destroy the they know what they need. Even stem of the plant. When the plant is when you are away from your forest, big enough, it will be able to fend for once you've established a relationship itself, but in the meantime it needs with your plants, they may call out to the protection. You can use a plastic you in your mind, for the loving hand mesh or whatever you have on hand. of the gardener to come to their aid, For insect pests plant row of wildflow- go to them, be an actor of the love of

more water, or phosphorous, or some-

Recommended reading: "Plant Innate above ground in stems, and pests telligence and the Imaginal Realm" by Stephen Harrod Buhner

5 Plants

their final location as soon as possi- draining soil and appropriate sun exble. To avoid it turning into a bonsai, posure based on the plant's prefit is best to avoid it getting pot bound. erence. Space plants according to Also the sooner the young seedlings their mature size to allow for proper gets to experience the main kind of growth. Water young plants regularly, soil in your area, the sooner it will be providing about 25-50 millimeters of able to adapt to it. Do not add more water per week, and adjust as needed than 5% of different soil to the hole, as based on rainfall. Apply a balanced, if you do, you will in effect be making a notted plant to support growth. Optionally prune annually during late winter or early spring to maintain shape and encourage bushiness. Monitor for pests and diseases, and apply appropriate treat-

adjustment. Perhaps someone needs up to 3-5 meters tall, live for 30-