

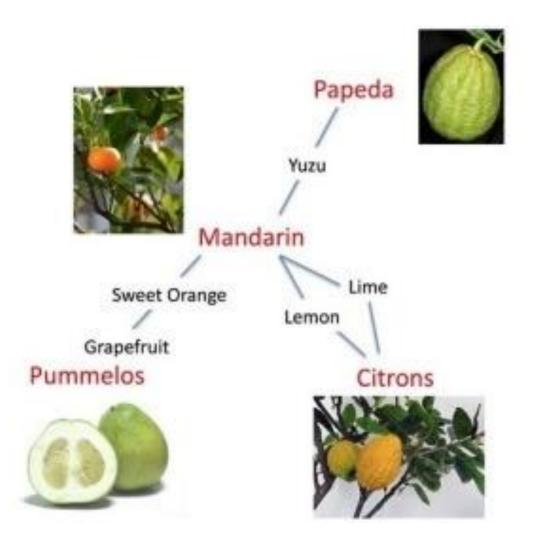
柑橘类水果的种植和管理

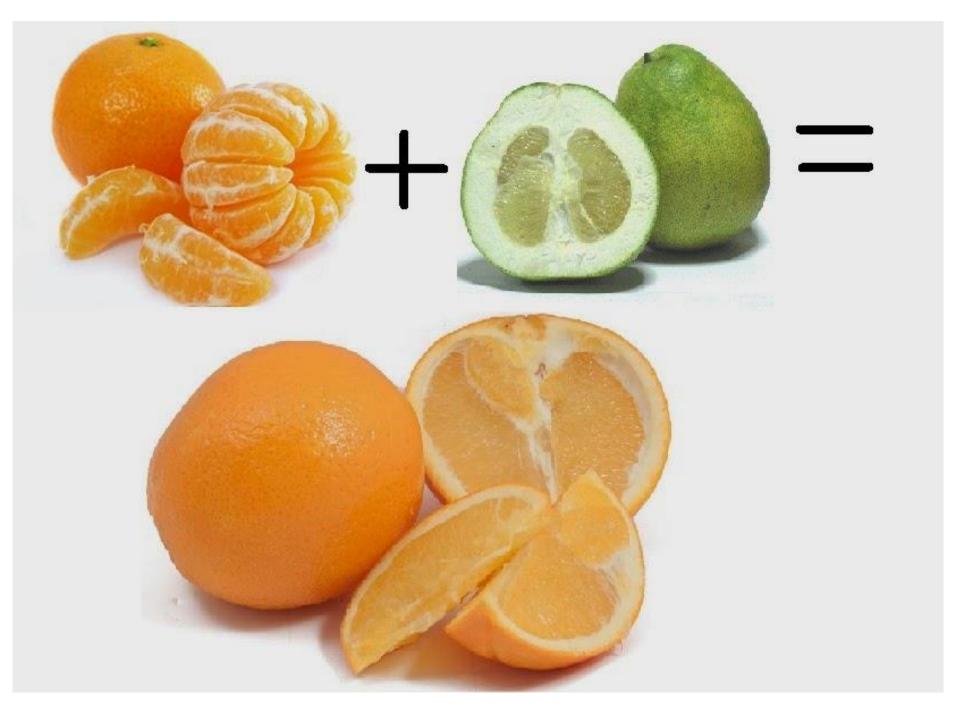
1	Flower, fruit and uses	花,果 实和用途	
2	Health benefits	健康益处	
3	Climate and Photoperiod	气候和光周期	
4	Soil	土壤	
5	Planting	种植	
6	Fertilizing	施肥	
7	Watering	浇水	
8	Tree Care	果树管理	
9	Overwintering	过冬保护	
10	Propagation	繁殖	
11	Pest management	虫害处理	
12	Disease management	病害处理	

柑橘品种/起源

Gānjú pinzhong/origin

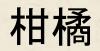
祖先:柚子, 柑橘, Papeda, 香橼







Duncan Grapefruit





Dancy Tangerine



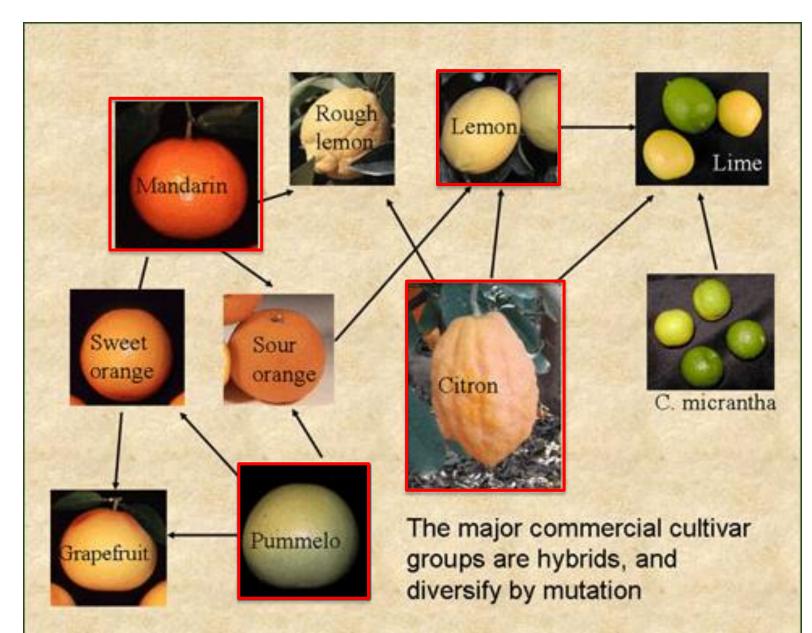


Honeybell Tangelo

Pomelo, lemon, orange, tangerine, manderin



Yòu, níngméng, chéngzi, júzi, gānjú



Kinkan

Kinkan are a type of Kumquat that originated in China.







椭圆形 外面甜,里面酸

圆形 外面甜,里面也甜







椭圆形:外皮厚

圆形:外皮薄







椭圆形:外皮厚

圆形:外皮薄





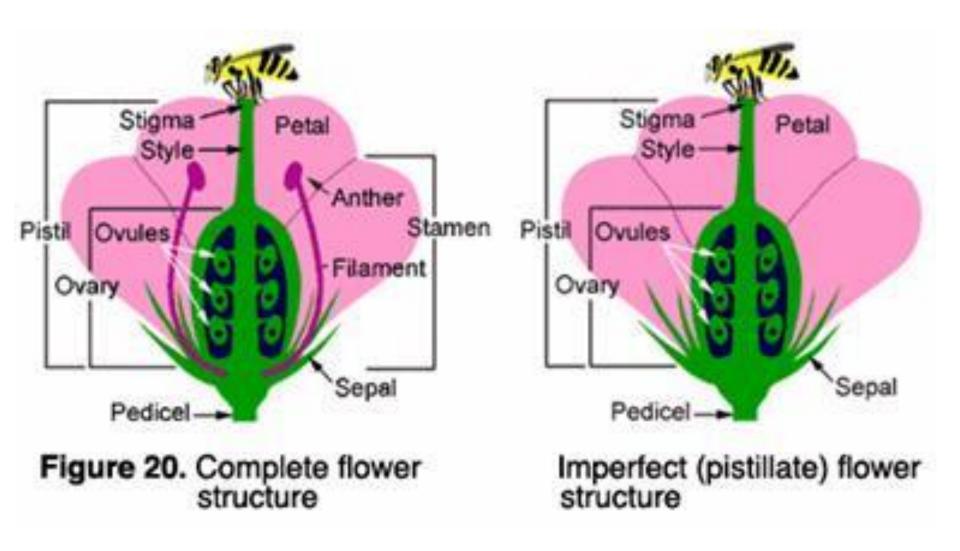


(柑橘类水果) (Citrus) 柠檬,葡萄柚,柑橘,柚子

1. 柑橘类水果的花,果实**和用途** Citrus flower, fruit and uses







柑橘类的花,雌雄同株 Citrus flower is bisexual









异花授粉

- 1. Apples
- 2. Almonds
- 3. Blueberries
- 4. Cherries
- 5. Avocados
- 6. Cucumbers?
- 7. Pomelo
- 8. Grapefruit
- 9. Mandarin

Orange 10. Pumpkins

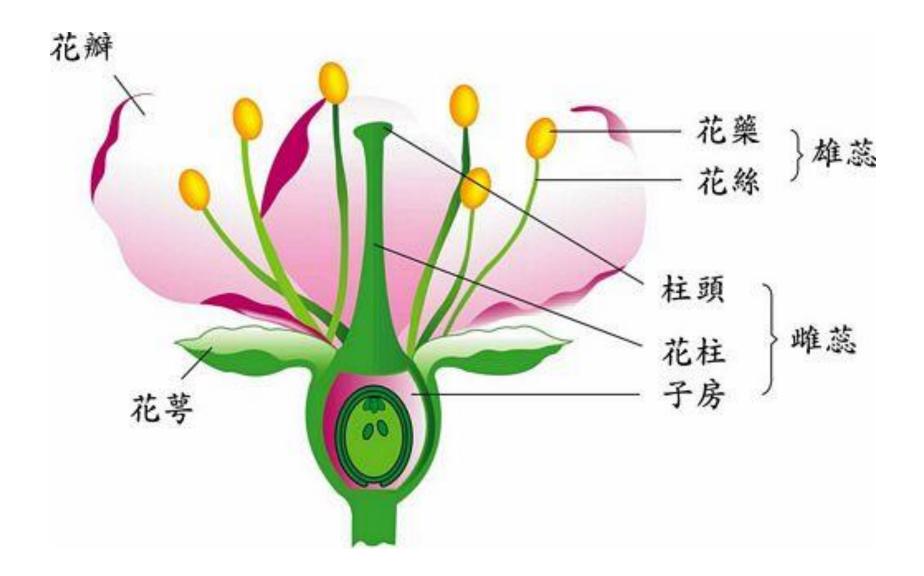
—·
3.蓝莓
4.樱桃
5.鳄梨
6.黄瓜?
7.柚
8.葡柚
9.橙子
10.南瓜

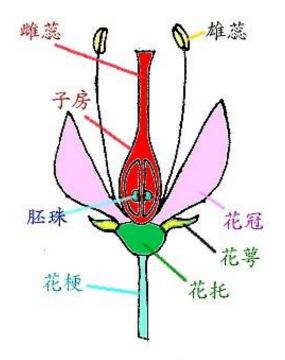
1. 苹果

2. 杏仁

- 自花授粉
- 1. Guava
- 2. Lemon
- 3. Apricot
- 4. Nectarines
- 5. Peaches
- 6. Pears
- 7. Grapefruit
- 8. Tomato
- 9. Bean
- 10.Egg plant

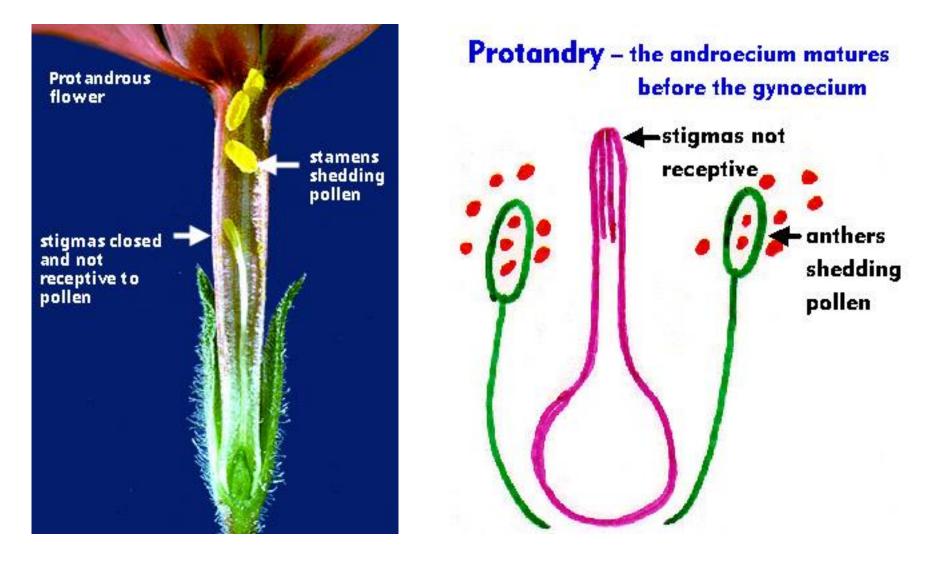
- 1. 番石榴
- 2. 柠檬
- 3. 杏
- 4. 油桃
- 5. 桃子
- 6. 梨
 - 7.葡柚
 - 8.番茄
 - 9.豆
 - 10.茄子

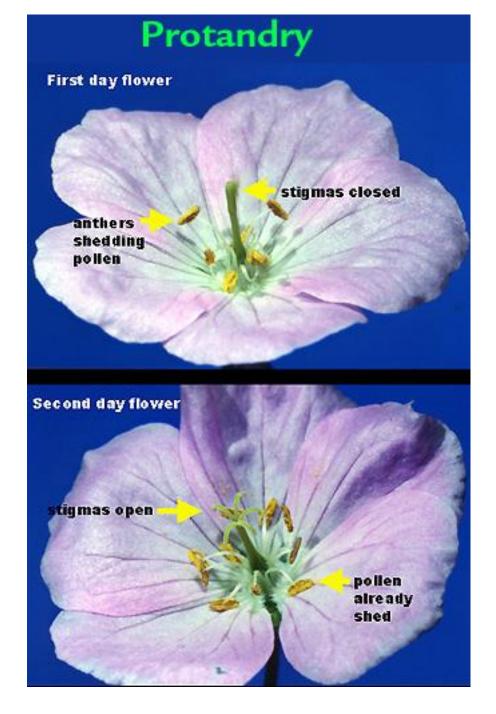




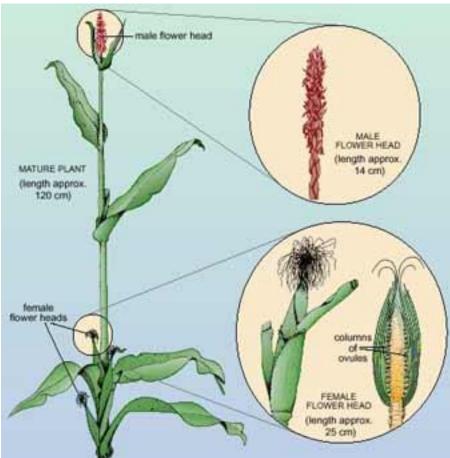
In an upright flower the anthers may be below the stigmas and vice versa in a hanging flower so that pollen will not fall on the stigmas. The most frequent device is that whereby the stamens ripen before the stigma is ready to receive pollen. This is known as protandry. The reverse condition (protogny) occurs in some flowers whose stigmas mature before their stamens shed any pollen.







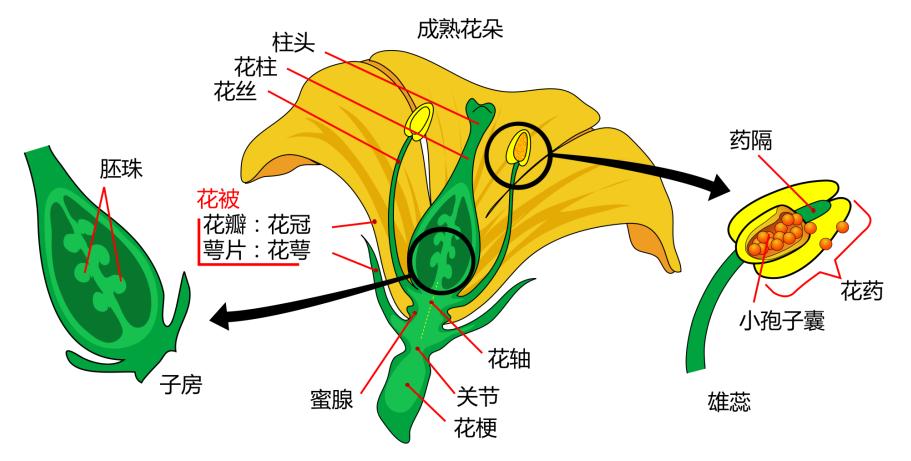
water lilies, magnolias and Corn 睡莲和玉兰(木兰科) 玉米



Self incompatible (SI)

SI acts by inhibiting the germination of pollen on stigmas, or the elongation of the pollen tube in the styles.

自不相容行为通过抑制花粉对柱头的萌发, **或抑制** 花粉管在花柱头的伸长率。



异花授粉

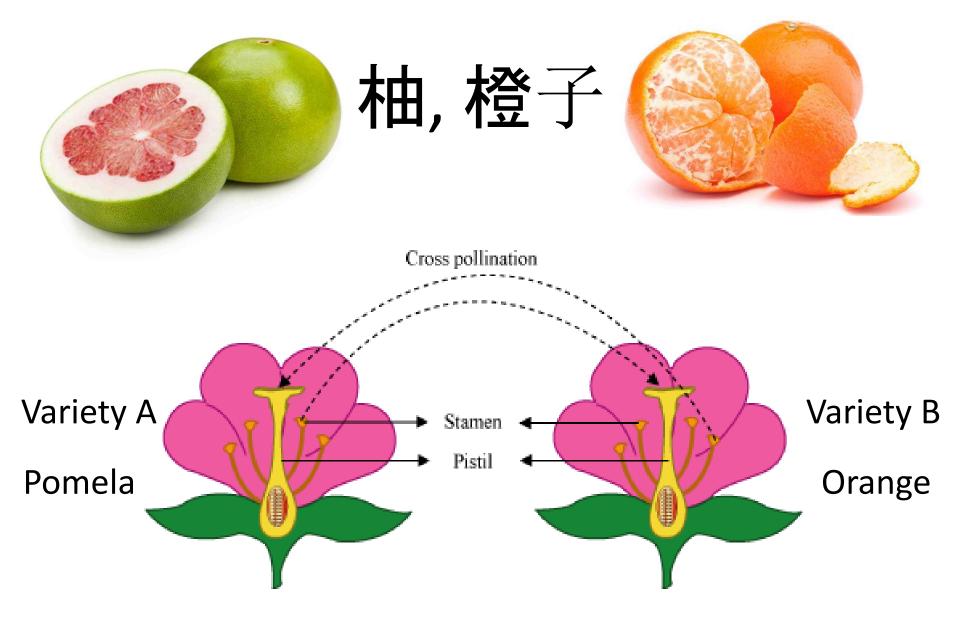
- 1. Apples
- 2. Almonds
- 3. Blueberries
- 4. Cherries
- 5. Avocados
- 6. Cucumbers?
- 7. Pomelo
- 8. Grapefruit
- 9. Mandarin
- 10. Pumpkins
- 11. Pecan

Ⅰ. 쑤禾
2. 杏仁
3.蓝莓
4.樱桃
5.鳄梨
6.黄瓜?
7.柚
8.葡柚
9.橙子
10.南瓜
11. 胡桃

井田

- 自花授粉
- 1. Guava
- 2. Lemon
- 3. Apricot
- 4. Nectarines
- 5. Peaches
- 6. Pears
- 7. Grapefruit
- 8. Tomato
- 9. Bean
- 10.Egg plant

- 1. 番石榴
- 2. 柠檬
- 3. 杏
- 4. 油桃
- 5. 桃子
- 6. 梨
 - 7.葡柚
 - 8.番茄
 - 9.豆
 - 10.茄子



http://masterbeekeeper.tamu.edu/files/2015/04/Pollinationof-Citrus-by-Honey-Bees.pdf

Characteristics of Citrus Varieties and Need for Bees						
Variety	Sexually Incompatible	Parthenocar py	Bees Required			
Dancy	No	Very Weak	No			
Temple	No	Very Weak	No			
Orlando	Yes	Weak	Yes			
Minneola	Yes	Weak	Yes			
Robinson	Yes	Weak	Yes			
Osceola	Yes	Weak	Yes			
Nova	Yes	Weak	Yes			
Lee	?	?	?			

What Cross-Pollination Doesn't Do

The flavors of the fruits won't change when oranges and lemons pollinate each other. Those growing on orange trees will continue to be oranges, and those growing on lemon trees will continue to be lemons. If your oranges taste sour, that acidity is most likely due to lack of sufficient heat or to their being picked too early rather than their proximity to lemon trees.

Crops planted next to bitter melon

buenaventura43

Every year for 18 years I plant bitter melon on the same bed with tomatoes, wing beans, and other vegetables . All the vegetables that are planted together with bitter melon did not become bitter in taste.





Store No.819566



柑橘类的花,果实和用途



18 SURPRISING WAYS TO USE ORANGES







20 ORANGE OIL

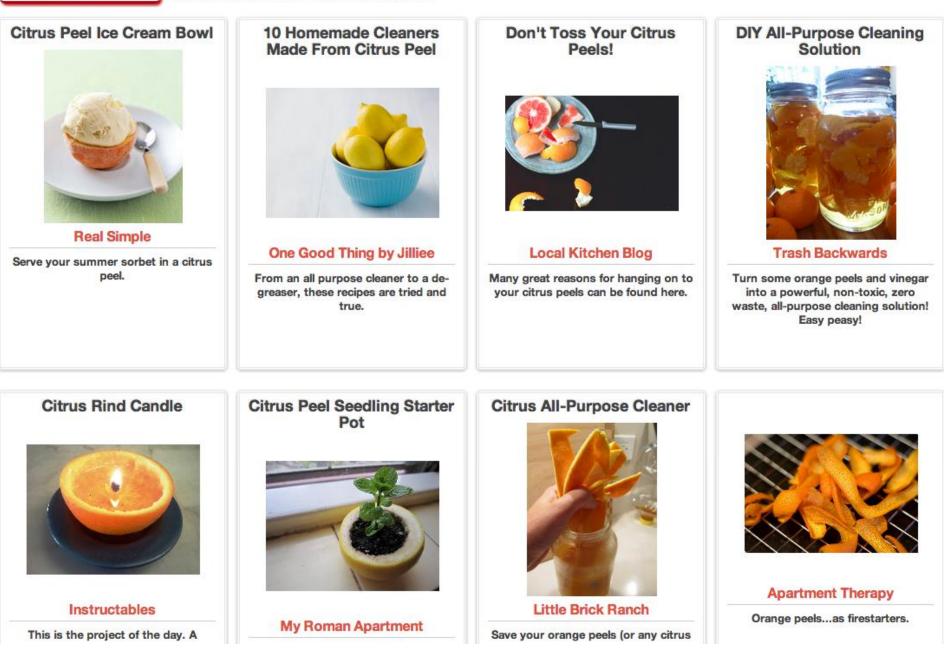
USES & BENEFITS THAT WILL ASTOUND YOU

informe



Reuse It

Turn Your Trash Backwards Into Something Cool



柑橘类

2.健康益处

Medicinal properties of Citrus

- 1. Scurvy; 水手-坏血病
- 2. Reduce constipation (便秘)
- 3. Lower Blood pressure (降血压)



Nutrition Facts

Serving Size 8 fl. oz. (240 mL) Servings Per Container 7

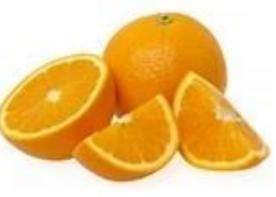
Amount Per Serv	•	
Calories 110	Calories from	Fat 0
	% Daily	Value*
Total Fat 0g		0%
Sodium 10mg	g	0%
Potassium	450mg	13%
Total Carbo	hydrate 26g	9 %
Sugars 22	2g	
Protein 2g		0%
Calcium 35% • Ir	ron 0% • Vitamin (C 120%
Vitamin D 25% • I	Niacin 4% • Thiami	
Vitamin D 25% • I Vitamin B6 6% •		

Ingredients: Organic orange juice, tricalcium citrate, and Vitamin D3.

Oranges - Nutritional Facts per 100 g Nutrients mg Parcentage

Folates	30 µg	7.5%
Niacin	0.282 mg	2%
Pantothenic acid	0.250 mg	5%
Pyridoxine	0.060 mg	4.5%
Riboflavin	0.040 mg	3%
Thiamin	0.100 mg	8%
Vitamin C	53.2 mg	90%
Vitamin A	225 IU	7.5%
Vitamin E	0.18 mg	1%
Vitamin K	Ομg	0%
Sodium	0 mg	0%
Potassium	169 mg	3.5%
Calcium	40 mg	4%
Copper	39 µg	4%
Iron	0.10 mg	1%
Magnesium	10 mg	2.5%
Manganese	0.024 mg	1%
Zinc	0.08 mg	1%











AMAZING BENEFITS OF ORANGES!

Constipation reliever

Oranges, as well as all other acidic



fruits have an alkaline effect in the digestive system, stimulating digestive juices and relieving constipation

Strengthens **Immune System**



Polyphenols, a type of antioxidant, reduce inflammation

and efficiently combat viruses and other bacteria

Prevents Arteriosclerosis Arteriosclerosis is the

hardening of the arteries. Vitamin C



in oranges. if consumed regularly, slows this degenerative process.

Prevent High Blood Pressure

Try eating ONLY oranges for a couple days, and drink plenty of water. Oranges contain potassium



and are sodium-free making them the perfect support system for our blood system. Sodium from processed foods should be eliminated and potassium-

rich fruits increased, if you want to get rid of hypertension

Repair damaged sperm Oranges, as we all know, are incredibly rich in Vitamin C. Vitamin C has been found to protect



sperm from genetic damage that would otherwise cause birth defects!

> Improves mood Oranges contain vitamin B6.



otherwise called the "mood vitamin" as B6 acts in the brain tc help produce serotonin and thus makes us happier

Healthy Bones



Oranges are a great source of magnesium, a mineral required for the absorption of calcium in the body, thus helping to maintain and form healthy bones and teeth

Cancer Fighter

Citrus fruits contain substances called limonoids that last in the blood stream



for up to 24hrs after consumption. Limonoids are cancer fighters, acting as a strong antioxidant preventing the breakdown of cell DNA





Dietitian's tip:

Orange juice is an excellent source of potassium, a mineral that helps regulate blood pressure and cell function. If you want to substitute a banana instead of the orange juice, the potassium content is similar.



I like to drink grapefruit juice but hear that it can interfere with some prescription medications. Is that true?

Answers from Katherine Zeratsky, R.D., L.D. Yes. Grapefruit and certain other citrus fruits and products can interfere with several kinds of prescription medications.

Don't take these interactions lightly. Some can cause potentially dangerous health problems. Check with your doctor or pharmacist before consuming any citrus products, including grapefruit, if you take prescription medications.



The list of medications that can interact with grapefruit is long and includes commonly prescribed medicines that:

Fight infections — erythromycin

Reduce cholesterol — atorvastatin (Lipitor), lovastatin (Altoprev), others

Treat high blood pressure — felodipine, carvedilol (Coreg), others Treat heart problems — amiodarone (Coradarone, Pacerone) Treat depression — diazepam (Valium, Diastat), fluvoxamine, others

Prevent organ rejection in transplant recipients — cyclosporine (Sandimmune, Neoral, others), tacrolimus (Prograf, Astagraf), others



In addition, researchers have identified other fruits and juices that may interact with medications. This is because many citrus varieties are grafted on a grapefruit stem. Tangelos (Honeybell and Minneola) are tangerines crossed with grapefruit. Seville oranges and their juice should also be avoided if you take medication that interacts with grapefruit.

Another potential problem is that some products may contain grapefruit but don't say so in the name or on the ingredients list. For example, numerous "citrus" flavored soft drinks have been identified as possibly containing grapefruit juice or grapefruit extract.



Eat half a grapefruit before each meal and lose 10 pounds in 10 days! Citrus does have a few powerful antioxidants with known cholesterol and blood pressure lowering effects. But can it help with weight loss? A recent study looked at the age-old claim in an effort to get some answers.

Answer: low calories and exercise

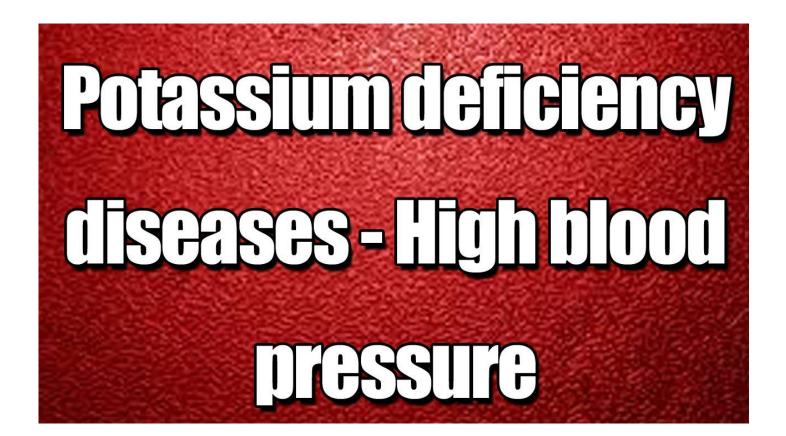
维生素C is unstable

存储对Orange的维生素C含量的影响

The orange juices from frozen concentrates

- 1) Concentrate: 86 mg to 39 to 46 mg/c after 4 weeks of storage.
- 2) Ready-to-drink juices averaged significantly lower reduced vitamin C: 27 to 65 mg/c at opening and 0 to 25 mg/c at expiration 4 weeks later.
- 3) Decomposition rate of reduced vitamin C was similar for all juices, about 2% per day once opened.

2. 降血压 Lower Blood pressure



J Hum Hypertens. 1993 Feb;7(1):33-8.

Direct evidence: Can guava fruit intake decrease blood pressure and blood lipids?

Singh RB1, Rastogi SS, Singh NK, Ghosh S, Gupta S, Niaz MA.

Author information

Abstract

A randomized, single-blind, controlled trial was conducted to examine the effects of guava fruit intake on BPs and blood lipids in patients with essential hypertension. Of 145

hypertensives that entered the trial, **72 patients** were assigned to take a soluble fibre and a potassium-rich diet containing 0.5-1.0 kg of guava daily (group A) and 73 patients to their usual diet (group B), while salt, fat, cholesterol, caffeine and alcohol intake were similar in both groups. Mean age, mean body weight and male sex, were similar, and so were risk factors, mean BPs, mean serum sodium, potassium, calcium, magnesium, triglycerides, cholesterol and HDL-cholesterol in both groups. Dietary adherence to guava intake was checked by a questionnaire. After four weeks of follow-up on an increased consumption of dietary **potassium** and low sodium/potassium ratio, group A patients were associated with 7.5/8.5 mmHg net decrease in mean systolic and diastolic pressures compared with group B. Increased intake of soluble dietary fibre (47.8 +/- 11.5 vs. 9.5 +/- 0.85 g/day) was associated with a significant decrease in serum total cholesterol (7.9%), triglycerides (7.0%) and an insignificant increase in HDL-cholesterol (4.6%) with a mild increase in the ratio of total cholesterol/HDL-cholesterol in group A patients compared with group B. It is possible that an increased consumption of guava fruit can cause a substantial reduction in BPs and blood lipids with a lack of decrease in HDL-cholesterol due to its higher potassium and soluble fibre content, respectively.



3. 气候和光周期 Climate and photoperiod



亚热带 sub-tropical) 可达18-22英尺的高度 大树:冰冻时不需要保护 小树:冰冻时需要保护

光合作用 **Photosynthesis** 光能 二氧化碳 (CO2) 水 (H₂O) 光合作用 糖 (C₆H₁₂O₆) 氧气 (O2)

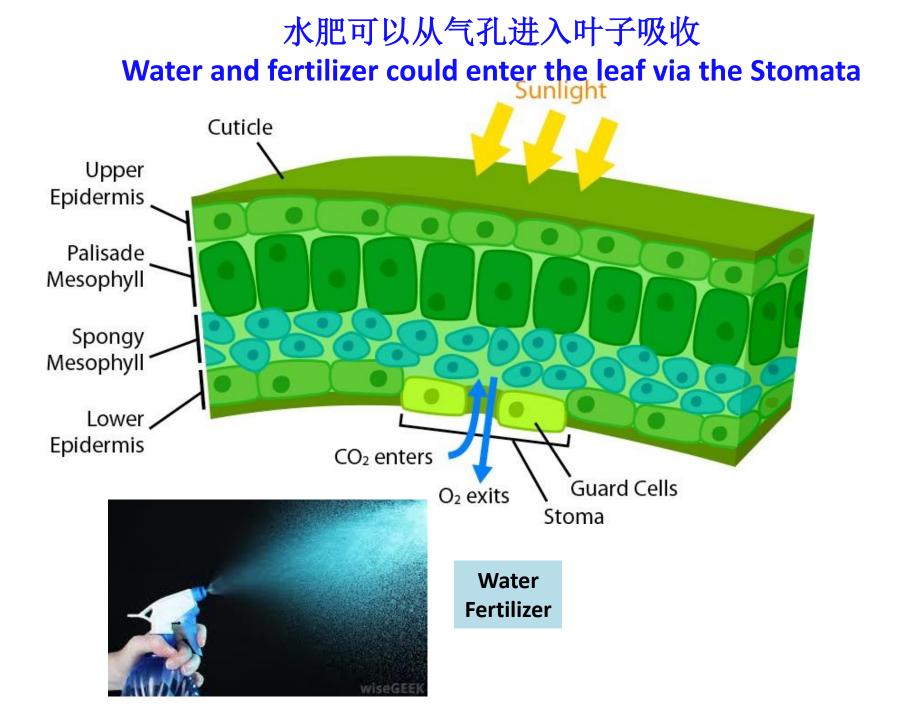


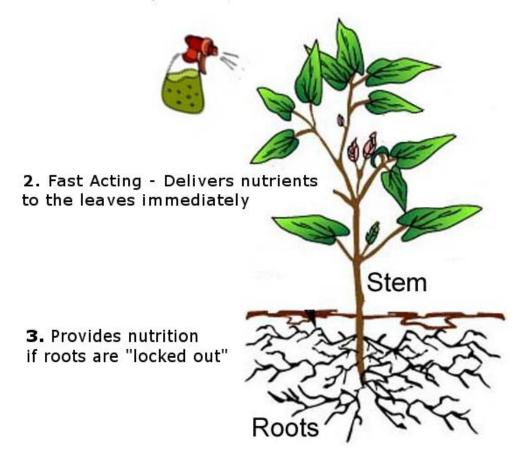


Fig 16.4 Foliar fertilizers can be effective for quickly correcting nutrient deficiency symptoms.



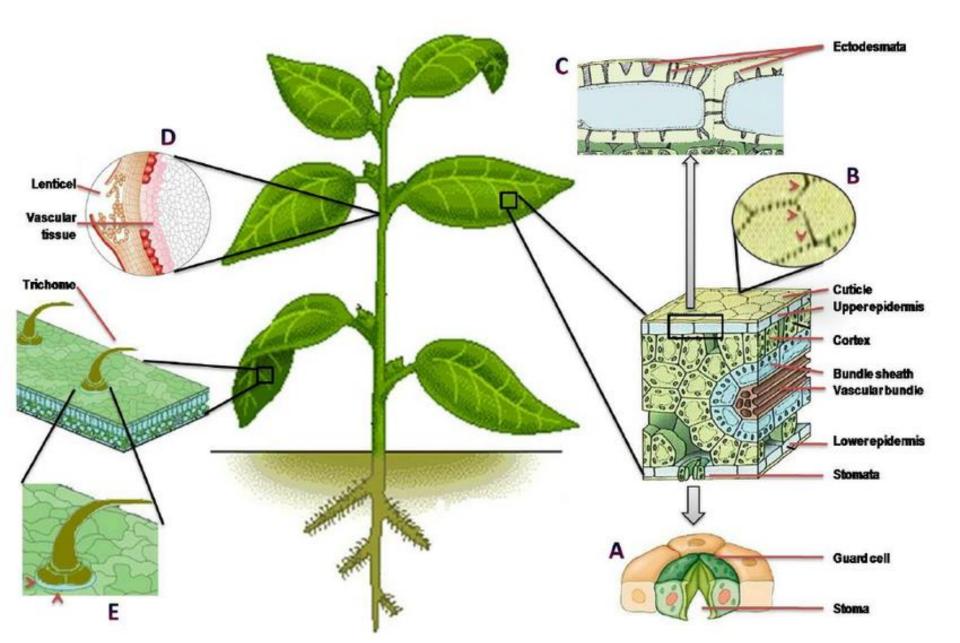
Benefits of Foliar Feeding

1. Saves Money - Reduces need for conventional fertilizers



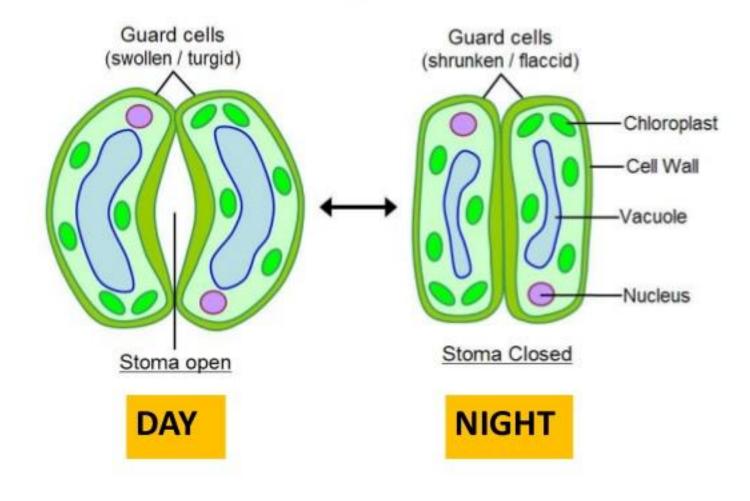
4. Helps break through nutrient lockout

Various points of entry of Iron and phosphorus as foliar spray



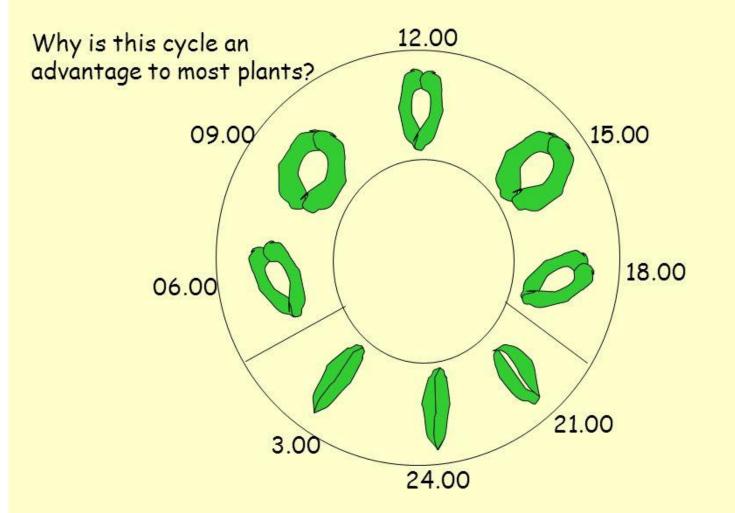
Minimum 6 to 8 hrs of sunlight

When are stomata open and when are they closed?



Knowledge of time of stomatal opening allows one to determine what day of sunlight is optimum for plant growth

24h Cycle of Stomatal Opening and Closing



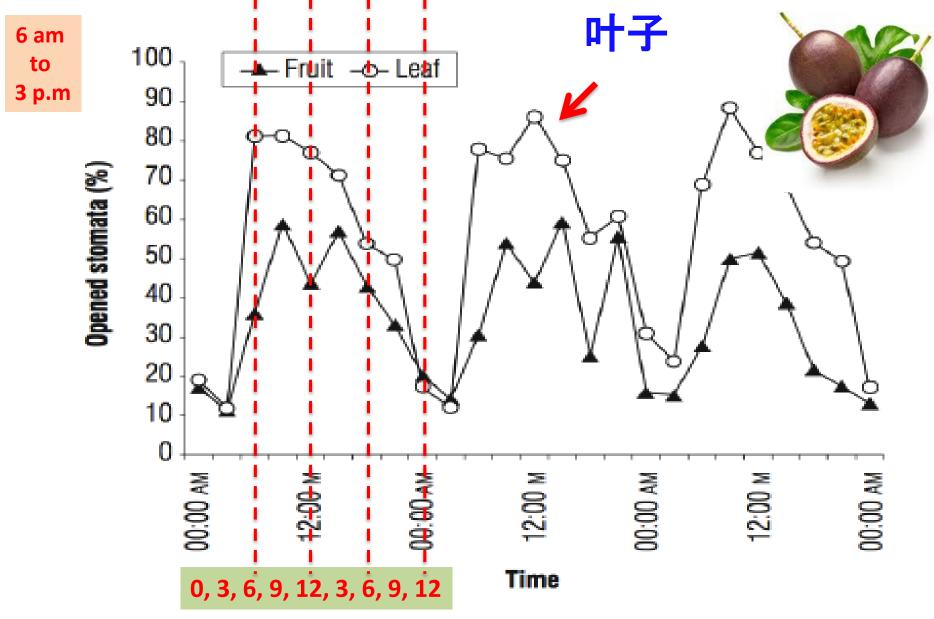
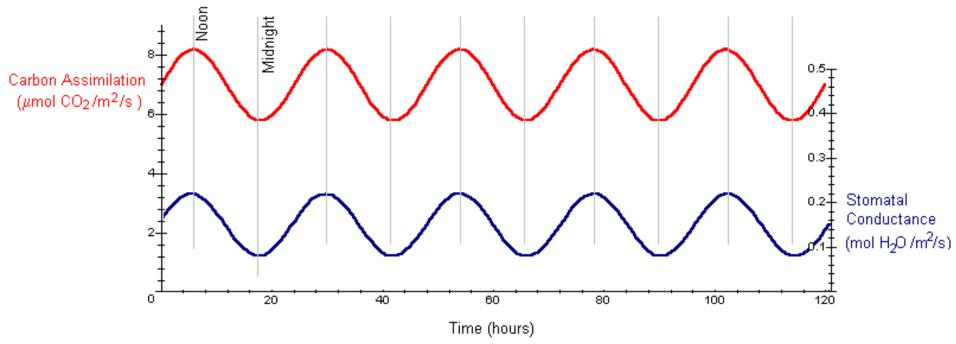


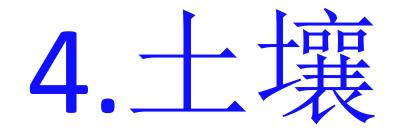
FIGURE 1. Opened stomata in fruits and leaves of the purple passion fruit over 72 h.

Stomata opening and photosynthesis share same rhythms :-Time of opening of stomata is the same as time of food synthesis



Under normal 24 hour day-night cycle or under constant moderate light and constant intercellular CO2

Best time is 6 am to 3 p.m



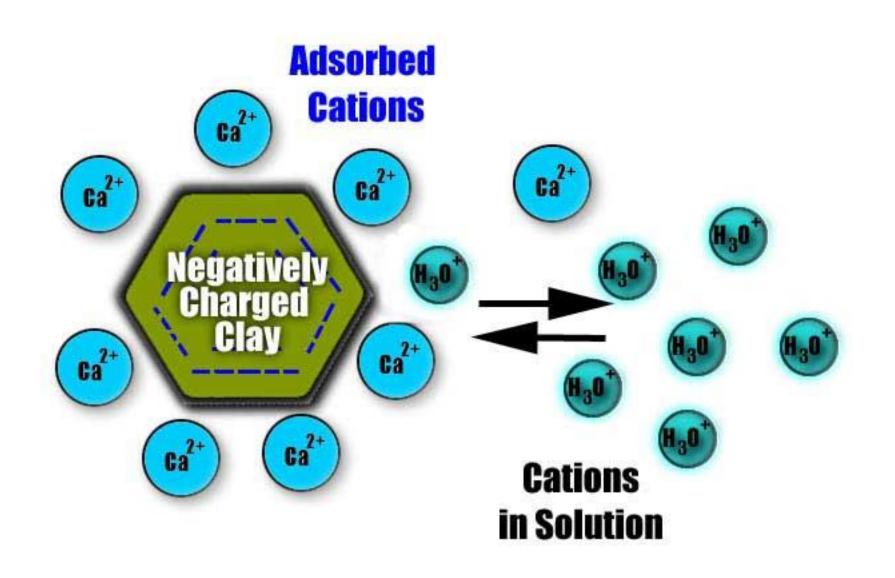
The guava will tolerate many soil conditions, but will produce better in rich soils high in organic matter. They also prefer a well-drained soil in the pH range of 5 to 7. The tree will take temporary waterlogging but will not tolerate salty soils.

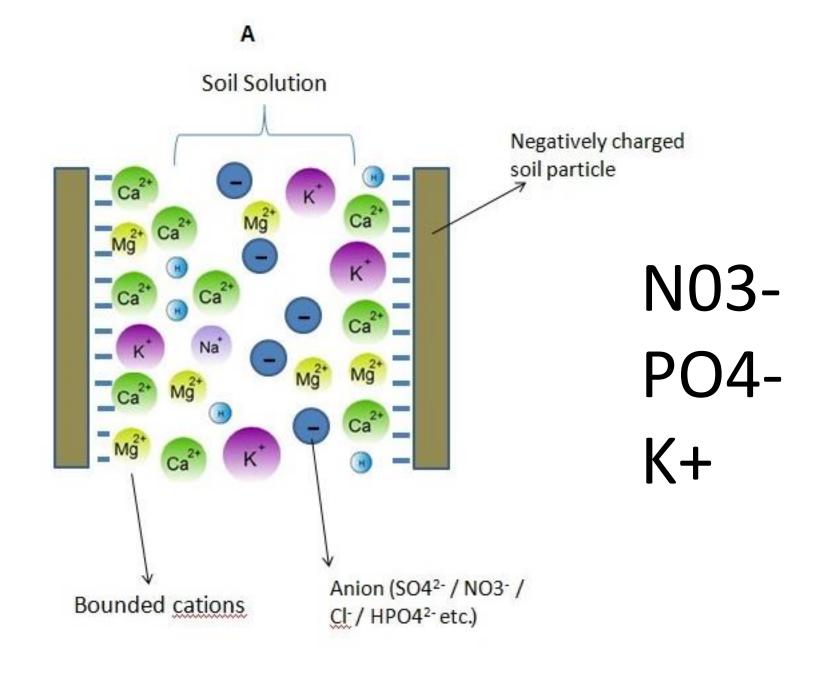
休斯顿的粘土层可达20 feet深

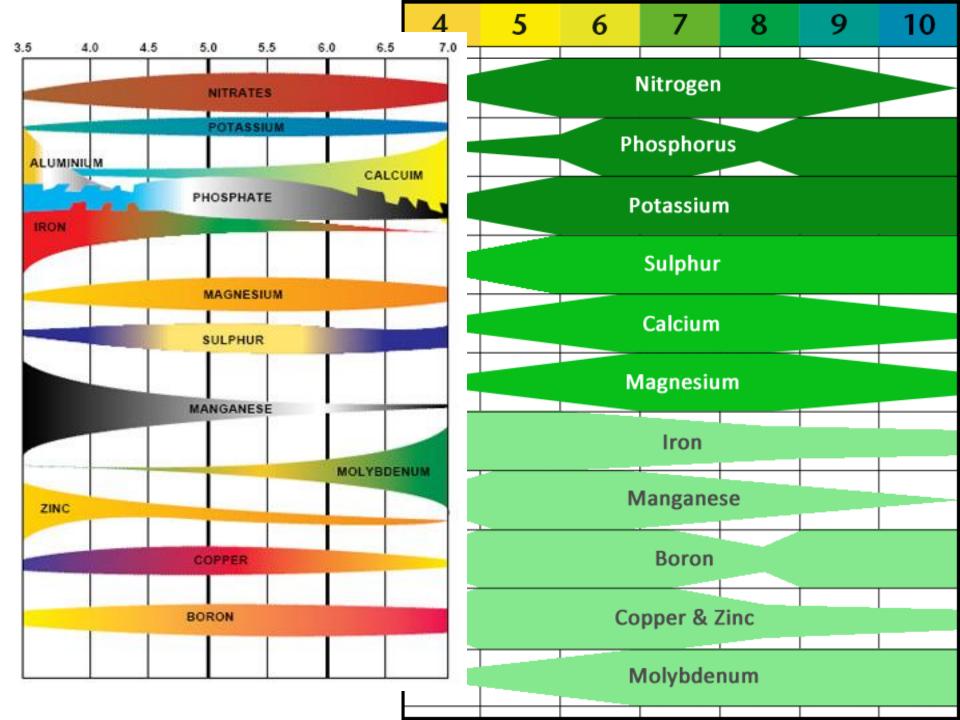


Houston Clay soil, up to 20 feet deep











A grapefruit tree could bear 300 fruit every year with good compost and mulch



WHAT CAN I COMPOST?



A grapefruit tree could bear 300 fruit every year with good compost and mulch

用1-2 英寸的有机腐殖土环绕果树

One to two inches of Organic compost around the tree



Different grades of gardening sol



earthworm





Store No.819566



5. 种植(Planting)

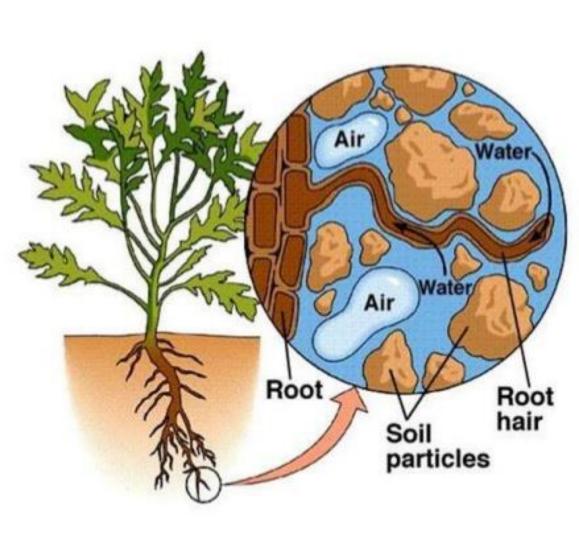
昨天看了种树积水的讨论,赶紧把新种的三角 **梅挖出来重种。果然是** 水坑呀





How are root hairs adapted for absorption?

- 1. are long and provide a large surface area
- 2. have a thin cell wall



Break up the root system



Almost no soil



Break up the root system



Good root system

- 1. Buy small plant
 - 2. Break up root
- 3. Do not buy root bound plant

4. Rinse away ½ inch of soilless medium on all side of root ball



用 Mulch保持湿度



Where to buy rice straw ?

STANDLEE PREMIUM WESTERN FORAGE CERTIFIED STRAW GRAB & GO COMPRESSED BALE, 50 LB. BALE ☆☆☆☆☆☆☆☆☆ 2.1 out of 5 stars. Read reviews. \$10.99; SKU #102619099

Tractor Supply Co (TSC) Free UPS Ship to store







树的间距:距其它的树8-12英尺

Spacing:

Guava trees in the home landscape should be planted 8 to 12 ft (4.6-7.6 m) away from other trees

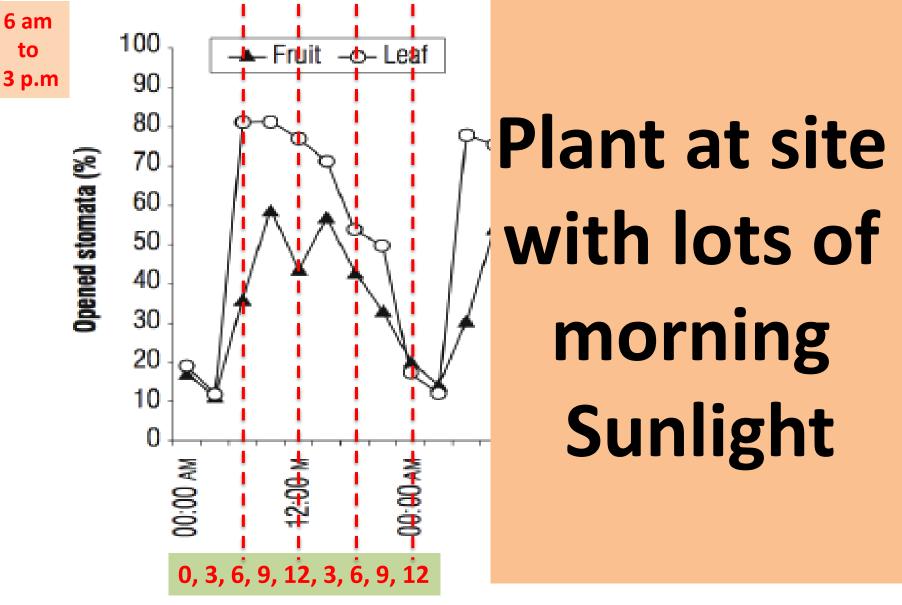


FIGURE 1. Opened stomata in fruits and leaves of the purple passion fruit over 72 h.



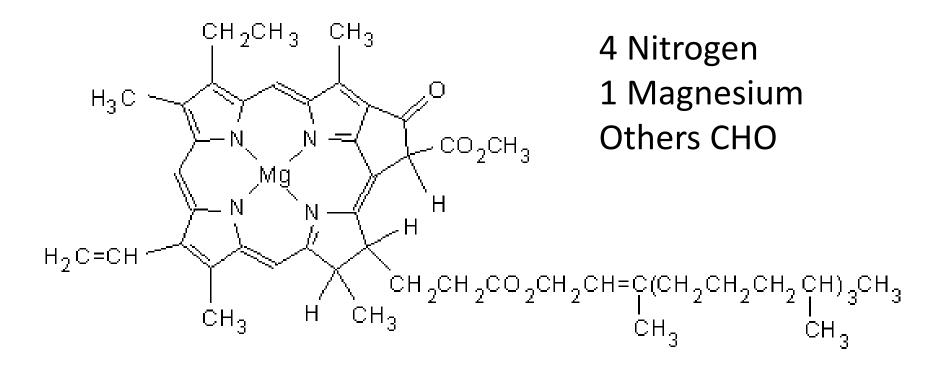
Citrus trees are heavy nitrogen feeders, make sure your fertilizer contains more nitrogen (N) than phosphorous (P) and potassium (K). Use at least a 2-1-1 (N:P:K) ratio.

环绕树覆盖1-2英寸的腐殖土 Apply one to two inches of Organic compost around the tree And add two bags of chicken manure in the spring



Nitrogen and magnesium are part of chlorophyll that make food

Intensity of green color of leaf indicate the Nitrogen sufficiency



NPK Definition

THE LEAF MAKER

- Production of new cells and and enzymes.
- Production of green pigments.
- Responsible for leaf and stem growth.
- Helps plants with rapid growth.

THE FLOWER INDUCER / FRUIT MAKER

POTASSIUM

- Encourages uptake of water.
- Essential in the development of flowers and fruits.
- Increases plants resistence to diseases.
- Helps plants make better use of light and air.

THE ROOT MAKER / FLOWER INDUCER PHOSPHORUS

- Encourages root growth and blooming.
- Essential part of the process of photosynthesis.
- Involved in the formation of all oils, sugars and starches.
- Helps with the transformation of solar energy into chemical energy.

Nitrogen is for green leaf

Understanding Fertilizer Numbers

9

Nitrogen

- for plant color and growth
 - · Phosphorous
 - for fruit & flowers
- Potassium
 for strong roots

Leaf color from light green to dark green





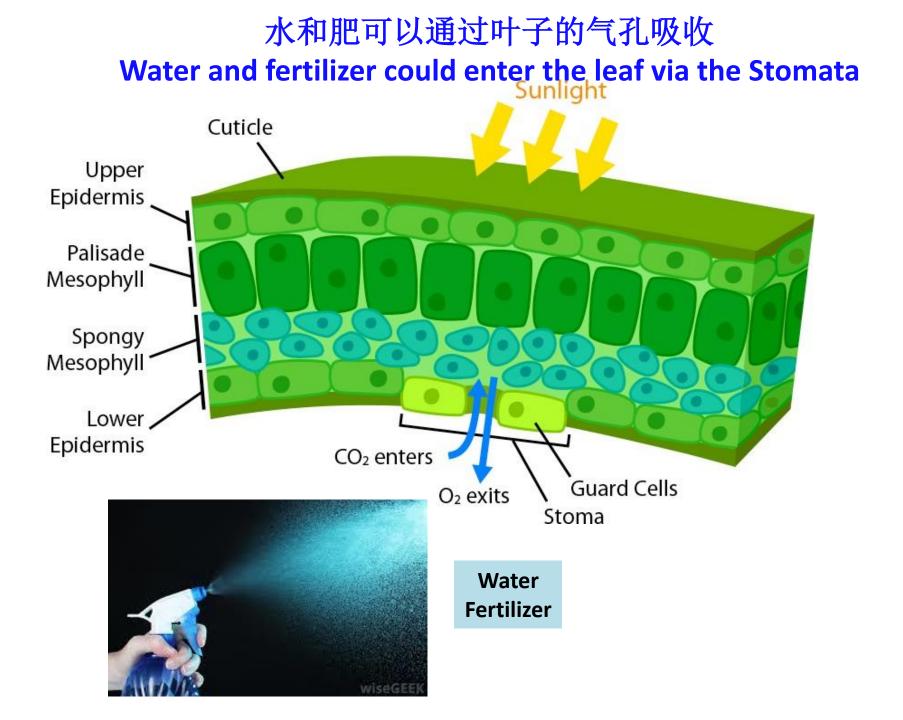


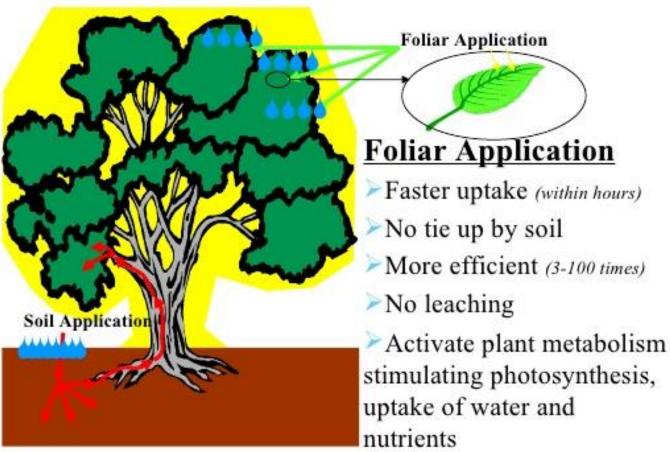


Fig 16.4 Foliar fertilizers can be effective for quickly correcting nutrient deficiency symptoms.



Advantage of Foliar Fertilization over Soil Fertilization

Soil Application Ties up Slow acting Less efficient Leaches



Foliar applications are faster acting and more efficient!

Chicken Manure

A low nitrogen 1-1-1 or 1-2-1 ratio is better. -Ideally, the nitrogen component should be half water insoluble, or slow release, and half water soluble. Waterinsoluble nitrogen breaks down slowly and feeds the tree over a period of months. Compost or horse and chicken manure are great slow release fertilizers.

1 CU. FT. BAGS—ABOUT 40 LB

farms. CHICKEN TURKEY Broiler Broiler Breeder Grower Breeder Roaster Grower Poult Cake¹ Cake¹ Litter Litter Litter Litter Litter Litter Moisture (%) 21.5 22.5 33.5 45.0 20.0 22.0 40.0 26.5 TS (%) 78.5 60.0 77.5 73.5 55.0 80.0 78.0 66.5 34³ 35³ Density (lb/cu. ft.)² 27 27 35 30 26 27 Nutrient Content (lb ton) NH₄-N 11 12 14 8 12 20 10 8 Organic-N 60 34 57 26 42 25 30 27 Nitrate-N 0.7NR⁴ NR NR 0.3 NR NR NR Total-N 72 71 45 40 35 46 34 54 PAN Surface Spread 42 26 31 25 23 20 41 20 45 30 35 31 26 23 Incorporated 45 22 P_2O_5 69 53 72 56 47 43 47 64 K_2O 46 36 46 33 39 30 27 18 Ca 44 34 89 37 26 42 26 72 8.1 7.0 8.7 Mg 7.5 6.9 5.4 5.1 4.6 S 12.1 9.2 14 8.2 8.7 6.3 6.1 7.4 Zn 0.64 0.60 0.68 0.57 0.61 0.47 0.46 0.50 Cu 0.53 0.41 0.50 0.22 0.52 0.48 0.39 0.40 Mn 0.710.69 0.75 0.63 0.700.56 0.53 0.43 Na 10 13 5.5 4.7 10 8.5 7.4 4.3 0.06 NR NR 0.005 NR NR As NR NR

Table 3.1. Broiler and turkey manure nutrient content as removed from the production house (lb/ton). Nutrient data complied from Barker, (1990), NRAES-132 (1999), and data compiled from South Carolina farms.

¹ Surface manure cake removed between flocks and prior to adding additional bedding (NRAES, 1999).

² Litter Density (lb/cu. ft.) = 77.29 - 0.643 TS (%), $r^2 = 0.9751$ (does not include caked litter).

³ Density value from NRAES (1999)

⁴ NR = Not Reported



About 40 Pound

COMPOSI D HICKEN MANURE

IO NATURE COMPOSTED CHICKEN MANURE is 100% manures of provide with no filler material added. This compost can be used in writous applications such as flower beds, vegetable gardens, and shrubs. BACK TO NATURE COMPOSTED CHICKEN MANURE are adds organic matter and humus to regenerate low organic soils.

DIRECTIONS FOR USE:

VEGETABLE GARDENS – Spread a 1" to 3" layer over the area to be planted and till to a depth of 3" in the into the top 2" of soil. Water thoroughly. If your beds are already planted, spread ½" to 1" over the soil where the over the soil.

or headbanes. We sold by the visiting lawns and water thoroughly. NEW: Spread a 1" layer over catire area to your part of the visiting soil, mixing thoroughly, or lightly rake into the top 2" of soil. Plant seeds or lay water adequated and the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the size of the root ball a top of the visiting hole at least twice the visiting hole at least twise the visitin

The second of the second secon

NGREDIENTS : 100% Composted Chicken Manure

BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil. BACK TO NATURE COMPOSTED CHICKEN MANURE performs best when mixed with the soil.



Manufactured by: BACK TO NATURE, INC. P.O. Box 190 Slaton, Texas 79364 www.backtonaturecompost.com



What to get from Chicken manure N,P,K

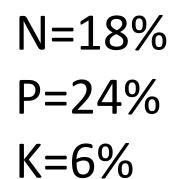
Chicken	Dairy Cow	Horse	Sheep	Rabbit
1.1, 0.8, 0.5	0.25, 0.15, 0.25	0.7, 0.3, 0.6	0.7, 0.3, 0.9	2.4, 1.4, 0.6

It is actually far better because it contains large amounts of organic matter, so it feeds and builds the soil while it nourishes the plants.

Sources: Rodale's All-New Encyclopedia of Organic Gardening, An Illustrated Guide to Organic Gardening, by Sunset Publishing, and the Rodale Guide to Composting.

Calculating actual NPK from fertilizer bag on sale





50 Lb

Actual N = 0.18 x 50 Lb bag = 9 Lb

What to get from Chicken manure N,P,K

Chicken	Dairy Cow	Horse	Sheep	Rabbit
1.1, 0.8, 0.5	0.25, 0.15, 0.25	0.7, 0.3, 0.6	0.7, 0.3, 0.9	2.4, 1.4, 0.6

Chicken manure has 1.1% Nitrogen: therefore 40 Lb chicken manure is about 0.44 Lb nitrogen

Guavas are fast growers and heavy feeders, and benefit from regular applications of fertilizer. Mature trees may require as much as 1/2 pound actual nitrogen per year. Apply fertilizer monthly if you could

What to get from Chicken manure N,P,K

Chicken	Dairy Cow	Horse	Sheep	Rabbit
1.1, 0.8, 0.5	0.25, 0.15, 0.25	0.7, 0.3, 0.6	0.7, 0.3, 0.9	2.4, 1.4, 0.6

Young tree, use 1 bag in Spring and another in June
 NO PRUNING