



Animal and Plant Health Inspection Service  
U.S. DEPARTMENT OF AGRICULTURE



# U.S. Fruits are Counting On YOU!

## Activity Book

# Calling All Citrus-Lovers: America's fruits need YOU!



The citrus plants in our community are facing **6** different threats. You can help protect them by not moving citrus fruits or plants, and by reporting signs of trouble to USDA. Complete the activities in this book to learn more about the threats and discover steps you can take to safeguard our citrus.

**Wait!** Before you start, head to the shed for scissors & coloring tools.

## CITRUS.A.

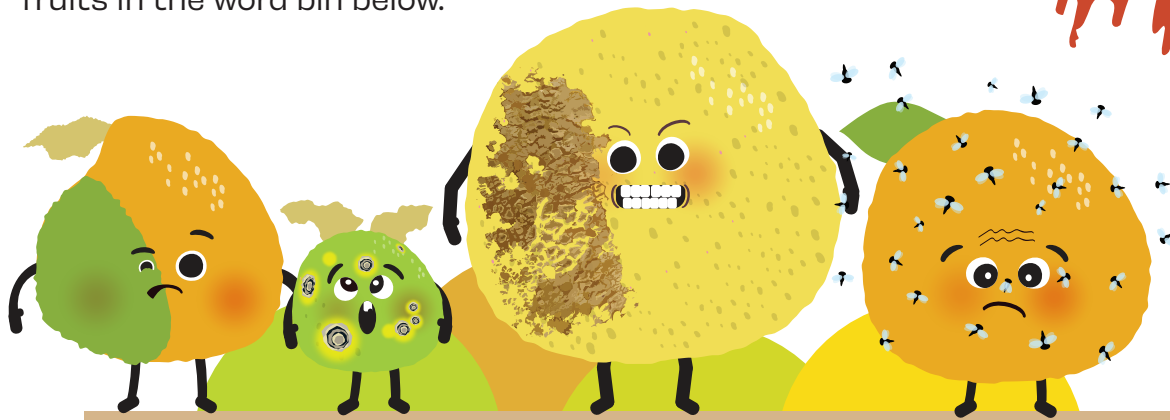
Citrus is a key ingredient in many of the recipes Americans know and love. Circle the dishes that contain citrus and you'll see – any threat to citrus is a big deal!



Oranges were introduced to the Americas in 1493 by early explorers.

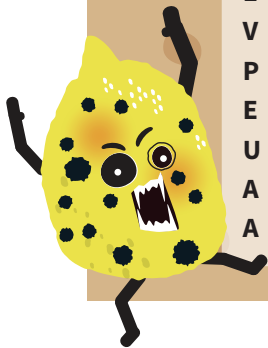
# Citrus Search What's at RISK?

"Citrus" is a term for more than lemons and limes – it includes dozens of different flowering trees and shrubs. Find some of America's most beloved citrus fruits in the word bin below.



U	O	T	H	C	L	E	N	L	Q	L	N	J	O	Q	W	K	D	N	T
T	C	A	L	B	N	V	E	O	L	I	T	H	U	R	W	A	O	W	E
R	M	Y	A	K	J	T	R	Q	H	M	C	F	A	Z	A	M	D	L	J
N	I	G	Z	R	Q	J	R	K	X	E	T	G	D	C	E	N	R	X	G
R	R	R	T	H	M	R	C	H	V	L	Z	J	W	L	O	D	G	Z	U
K	N	A	D	M	A	N	D	A	R	I	N	Y	H	B	C	H	Q	E	G
J	X	P	I	Q	I	F	Y	J	Q	Z	W	K	X	V	L	G	F	Y	D
V	G	E	V	F	Q	Y	R	R	K	U	L	Z	O	F	E	C	A	Q	Q
L	P	F	O	T	I	Q	B	P	Q	A	M	B	B	T	M	Z	K	Y	U
V	S	R	Z	T	A	N	G	E	R	I	N	E	P	X	E	G	N	U	N
W	H	U	Y	B	R	Q	H	Y	H	W	H	D	Q	B	N	L	H	K	P
A	L	I	Y	P	T	J	T	N	F	T	J	W	X	W	T	S	Q	L	C
Y	R	T	D	M	G	Q	H	G	G	K	C	I	B	D	I	G	L	H	L
E	Y	F	I	S	U	D	K	Z	V	N	E	K	Y	O	N	B	F	Z	R
V	X	Q	H	G	R	K	C	G	S	N	U	Y	P	U	E	S	T	I	I
P	O	M	E	L	O	U	V	I	X	I	D	I	L	B	Z	Z	V	M	K
E	P	R	S	F	I	K	Y	J	T	M	V	Y	P	I	F	U	I	E	J
U	X	G	M	K	V	W	C	U	Y	H	J	Y	E	A	M	V	V	S	G
A	C	V	B	P	W	N	A	I	Z	G	G	H	B	L	Z	E	J	L	W
A	S	G	O	X	C	Y	X	S	W	U	D	Z	J	W	G	D	J	Z	F

Orange  
Grapefruit  
Tangerine  
Mandarin  
Key Lime  
Lime  
Lemon  
Pomelo  
Yuzu  
Clementine

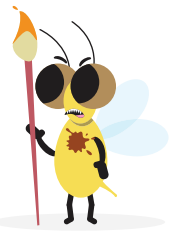


DYK people can develop a disease called scurvy if they don't get enough vitamin C? That's why British sailors' rations used to include citrus fruits!



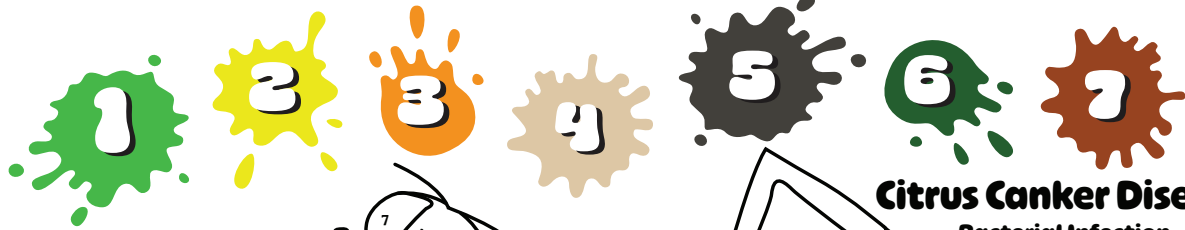


# COLOR THE TROUBLE

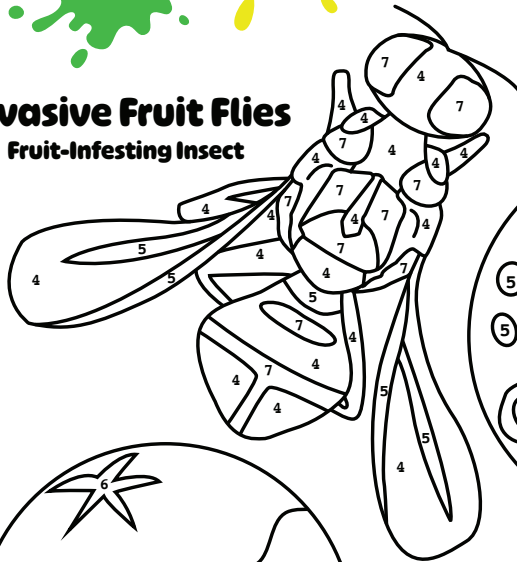


Each threat affects citrus plants differently.

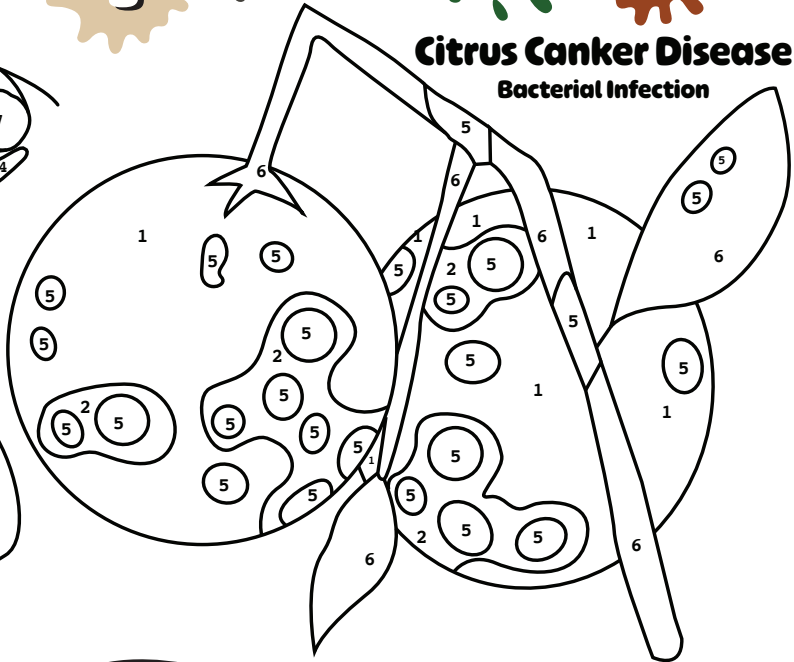
Color by numbers to learn what each one looks like, so you can spot signs of trouble.



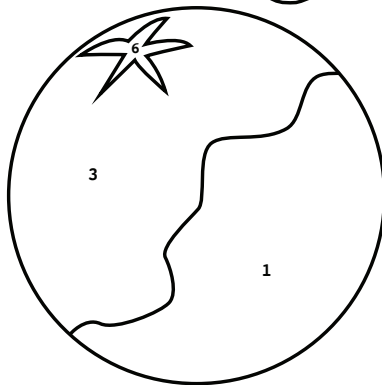
**Invasive Fruit Flies**  
Fruit-Infesting Insect



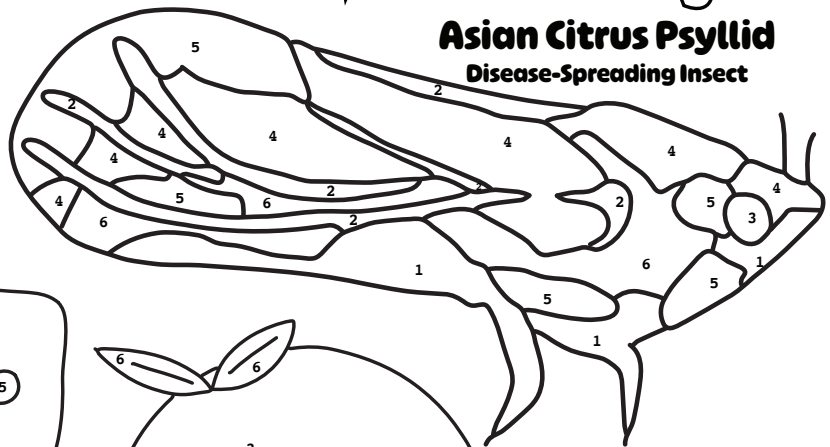
**Citrus Canker Disease**  
Bacterial Infection



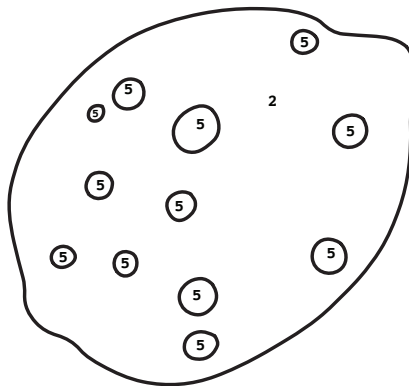
**Citrus Greening Disease**  
Bacterial Infection



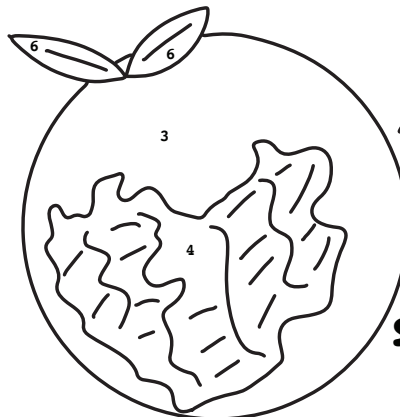
**Asian Citrus Psyllid**  
Disease-Spreading Insect



**Citrus Black Spot**  
Fungal Infection



**Sweet Orange Scab**  
Fungal Infection



All of the different citrus fruits we enjoy today descend from three forebearers: the citron, the pomelo, and the mandarin.

# juicy jokes

Why did the  
lime's car  
stop working?

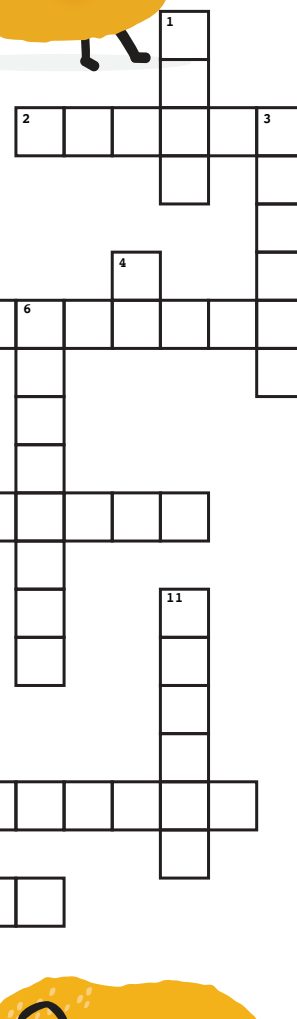
Because it ran  
out of juice!





## Crosswords are better than cross-contamination!

Guess your way through these clues to fill the boxes with letters and fill your brain with tips for citrus safety.



### ACROSS

2. Enjoy eating these at home or with neighbors – don't move them over state lines
5. Only buy citrus plants from reputable nurseries who have a \_\_\_\_\_ to sell plants
8. This fungal disease, which impairs citrus plants' fruit production, looks like dark freckles or uneven, discolored patches
13. This bacterial disease, which causes leaves and fruits to drop prematurely, looks like brown, scabby lesions
14. This ultimately deadly citrus disease stunts growth and causes fruits to turn green
15. Sanitize these yard-tenders before and after sharing with friends or neighbors so you don't spread citrus canker
16. These invasive pests attack over 400 kinds of fruits and vegetables
17. The largest of all citrus fruits, this tangy treat can grow to weigh 10+lbs

### DOWN

1. This sky-originating shower can pick up and spread fungal spores, especially when it's windy
3. These microscopic particles are the fungal equivalent of seeds
4. This person can help protect U.S. citrus – we're all needed!
6. This term describes non-native species that cause harm to the environment, the economy, or human health
7. This tiny insect feeds on citrus and can spread citrus greening disease
9. This is the U.S. state with the highest citrus production
10. Maintaining these zones keeps invasive or diseased plants and animals from infesting or infecting new areas
11. These bipedal mammals are the primary culprit when it comes to aiding and abetting the spread of citrus diseases
12. The [very obvious] name for the lesions caused by the sweet orange scab fungus



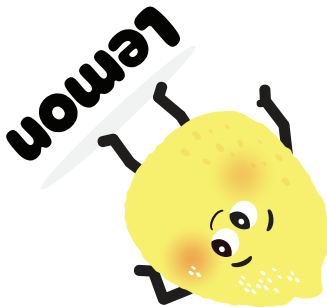
Technically, citrus fruits are berries! They're a type of berry called hesperidiums, which have a thick rind and a juicy, segmented interior.



# Cootie Quizzzer

Here's a fun contraption you can use to quiz your friends about citrus safety.

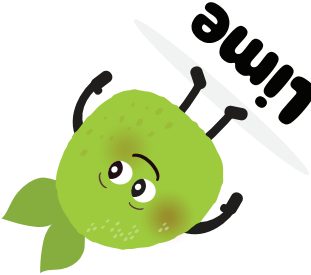
- 1 Cut out the square.
- 2 Flip the square over and fold corner to corner. Unfold.
- 3 Then, fold opposite corner to corner and unfold it again.
- 4 Now fold each corner of the square towards the center.
- 5 Turn the paper over and bring each corner to the center.
- 6 Fold the square in half, crease firmly, and slip fingers into flaps.



Lemon

5

Is it okay to cut part of a citrus plant to propagate?



Lime

2

What should you do with rotting fruits?

Answer: Double-bag then trash it.

3

Is it okay to eat citrus then move yourself?

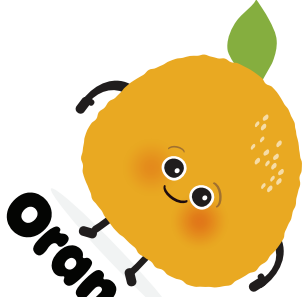
1

Can you bring citrus from your yard to a friend's house?

Answer: If they live within your quarantine zone, it's cool.

4

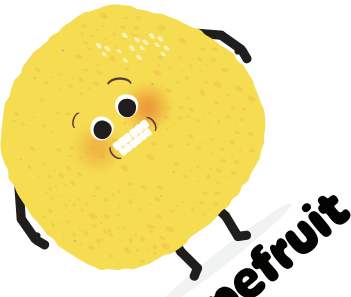
Is it okay to drive citrus over state lines?



Orange

7

Can you bring citrus from your yard into your house?



Grapefruit

6

Can you lend garden tools used on citrus to a neighbor?

Answer: It's okay if you disinfect it with alcohol. Cheers!

8

Is it okay to mail citrus?

9

Enjoy exercising!

Answer: Yes.

10

That's a hard no. NO!

11

Yeah, that's cool.

Answer: That's a no-go.





# Mess of Threats



- ASIAN CITRUS PSYLLID
- CITRUS CANKER DISEASE
- CITRUS BLACK SPOT
- CITRUS GREENING DISEASE
- SWEET ORANGE SCAB
- INVASIVE FRUIT FLY

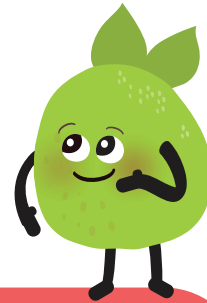


During the 2022–2023 season, U.S. producers sold 4.9 million tons of citrus.



# Citrus SECRETS

Can you crack the code to reveal the most important message of all?



## CODE KEY

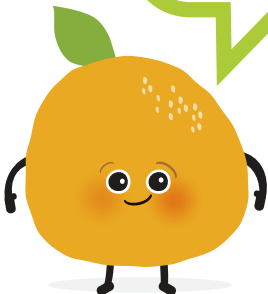
A	B	C	D	E	F	G	H	I	J	K	L	M
23	7	14	12	18	9	6	17	16	25	2	4	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
26	19	10	1	24	5	22	11	3	8	20	15	21

What should you not do?



13 19 3 18    14 16 22 24 11 5 !

What if you see disease?



24 18 10 19 24 22    16 22

22 19    11 5 12 23

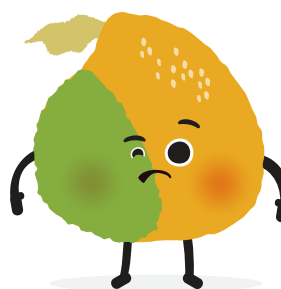


If you toss a whole lemon and a whole lime in a bowl of water, the lemon will float and the lime will sink. It's because they have different densities!

# juicy jokes

Why did the  
orange get  
inspected?

It wasn't  
**peeling** well!

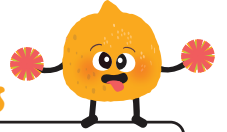




# Orange you glad?

## It's the

# Answers!!!

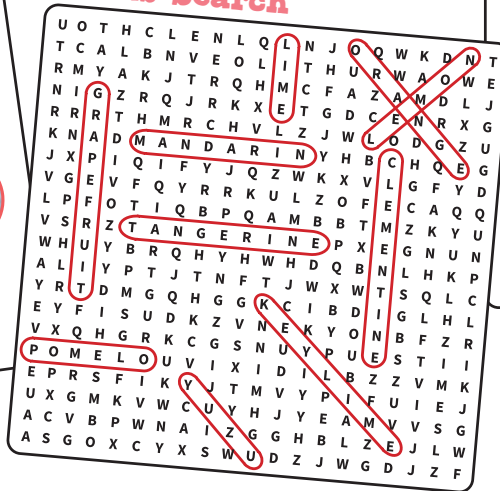


### CITRUS.S.A

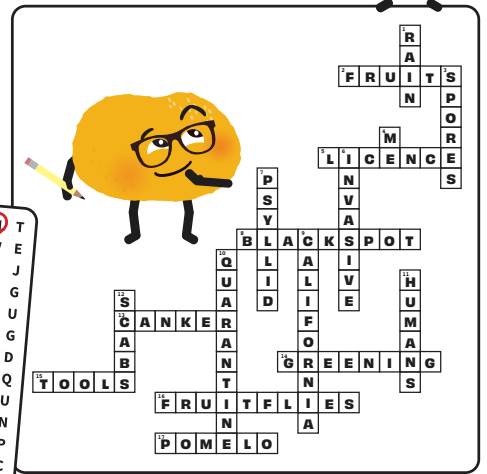


**THAT'S RIGHT-  
ALL OF THEM!**

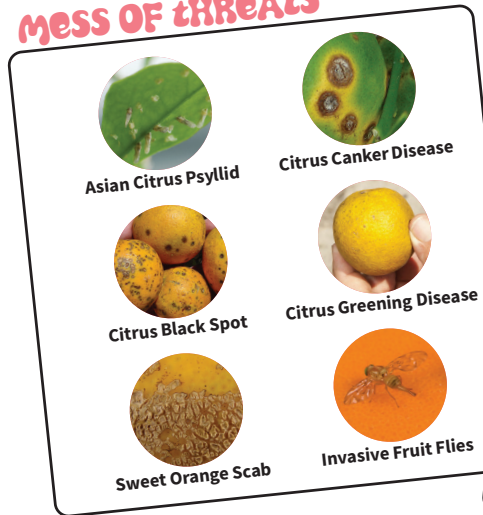
### Citrus Search



### BRAIN SQUEEZERS



### MESS OF THREATS



### Citrus Secrets

What should you not do?

**MOVE CITRUS!**  
13 19 3 18 14 16 22 24 11 5

What if you see disease?

**REPORT IT**  
24 18 10 19 24 22 16 22  
**TO USDA**  
22 19 11 5 12 23



Orange trees can be used to deter elephants from entering farms and eating crops. They don't like the smell!



**If you have citrus trees on your property,  
inspect them regularly and report any  
signs of illness here:**

[www.aphis.usda.gov/plant-pests-diseases/citrus-diseases](http://www.aphis.usda.gov/plant-pests-diseases/citrus-diseases)

