

FARM LAB

passport

name _____

date _____

presented by

SEE  AG



THANK YOU FOR COMING TO THE FARM!

¡GRACIAS POR VENIR AL RANCHO!

Today, you became a farm scientist! You learned all about soil, water, plants and insects. Now you know how to better build healthy soil, grow crops, collect fresh water, feed yourself and the world. But the journey doesn't end here, there is so more to explore in this passport!

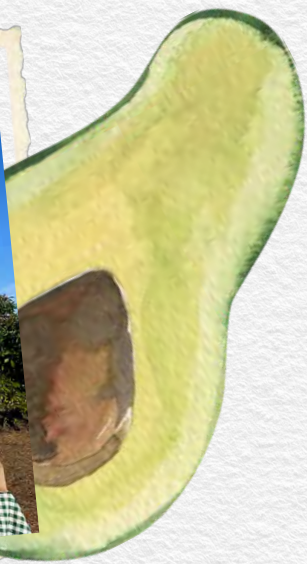
Hoy te volviste en científico agricultor. Aprendiste sobre tierra sana, agua, plantas, y insectos. Ahora, sabes mejor cómo crear un tierra sana, cultivar, recoger agua pura y alimentar a ti mismo y al mundo. ¡Pero la aventura no se acaba aquí, hay mucho más por explorar en este pasaporte!

SEE  AG



1





SOIL SCIENCE

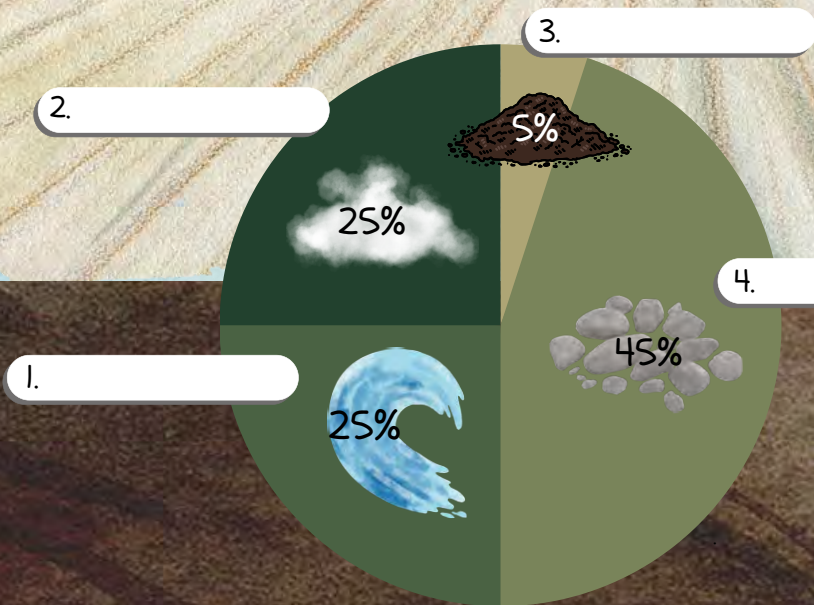
CIENCIA DE TIERRA

Fill in the spaces below with the correct healthy soil ingredient from the box to the left

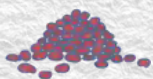
Llena los espacios abajo con cada ingrediente de tierra sana usando las respuestas de la caja izquierda

KEY/CLAVE

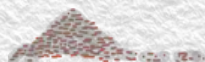
- Rocks/Rocas
- Sand/Arena
- Silt/Limo
- Clay/Barro
- Air/Aire
- Water/Agua
- Organic Matter/Materia Orgánica



5.



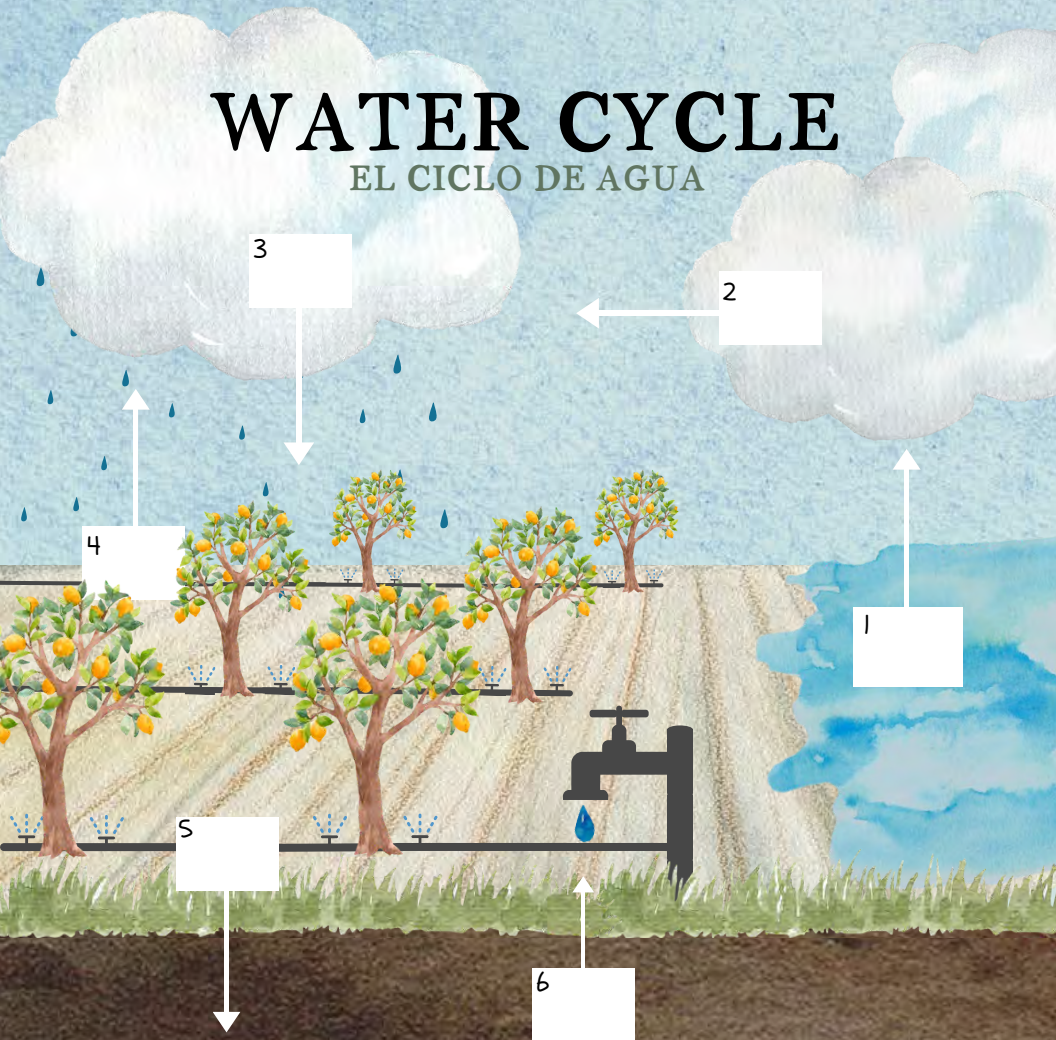
6.



7.

WATER CYCLE

EL CICLO DE AGUA



Using the picture above, fill in the boxes with the correct letter that matches each step in the water cycle.

Usando la imagen de arriba, llena los cuadros vacíos con la letra correcta que corresponde a cada paso del ciclo de agua.

- | | |
|---|---|
| A Evaporation
Evaporación | D Transpiration
Transpiración |
| B Groundwater Extraction
Extracción de agua subterránea | E Groundwater Infiltration
Infiltración de agua subterránea |
| C Condensation
Condensación | F Precipitation
Precipitación |

See answer key on page 16. Mira la clave en página 16.

6 PARTS OF A PLANT

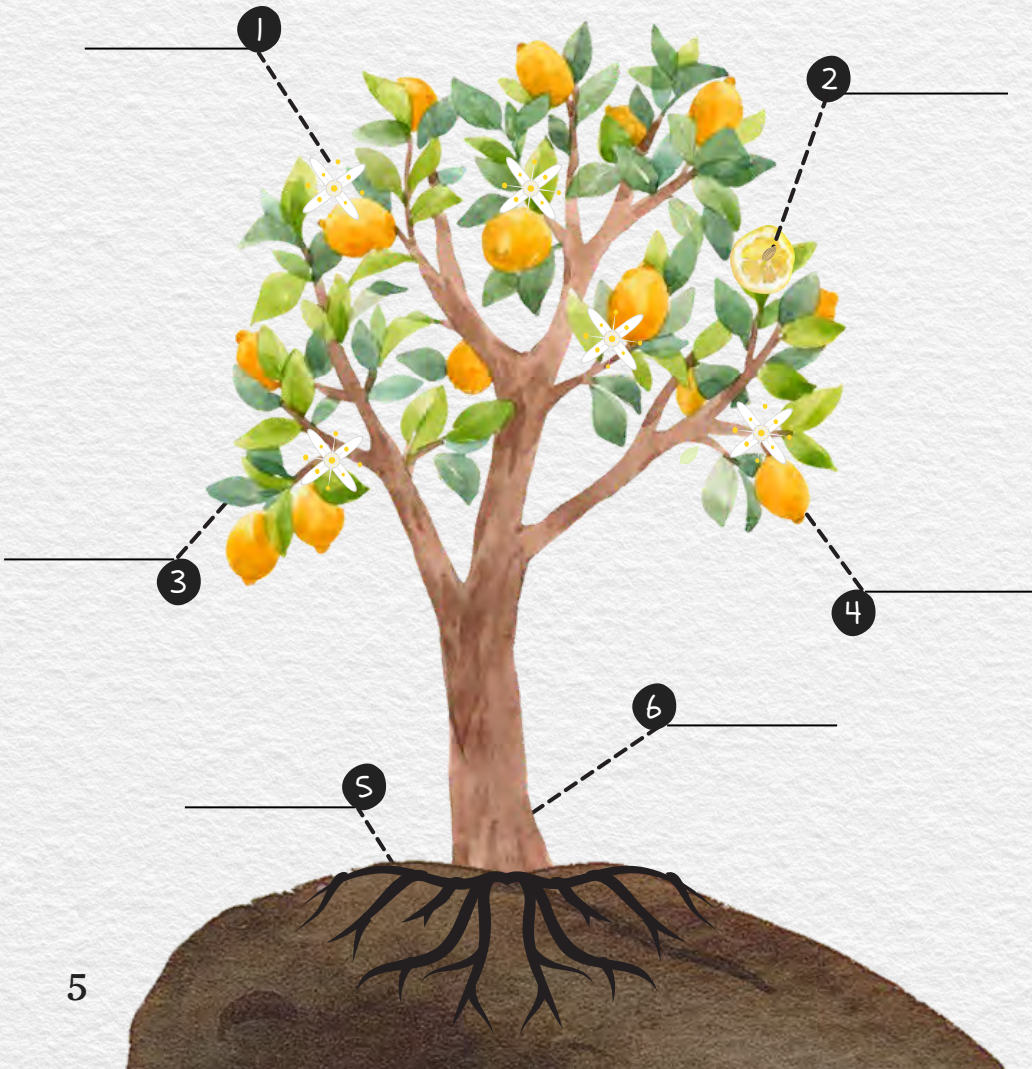
LAS SEIS PARTES DE UNA PLANTA

Label the parts
of the lemon tree.

Marca las partes del árbol
de limón.

WORD BANK

Flower	Seed	Trunk/Stem
Flor	Semilla	Tronco/Tallo
Fruit	Leaf	Root
Fruta	Hoja	Raíz



INSECTS ON THE FARM

INSECTOS EN EL RANCHO

Write the name of the insect in the blanks using the word bank.
Then, circle whether it is a pest (P) or beneficial (B) insect.

Escribe el nombre del insecto usando la clave. Entonces,
rodea con un círculo si es un parásito (P) o beneficioso (B).

WORD BANK

Snail
Caracol

Aphid
Áfido

Mealybug
Cochinilla

Honey Bee
Abeja

White grub
Larva blanca

Mealybug destroyer
Destructor cochinilla

Ladybug
Mariquita

Lacewing
Crisopa

Butterfly
Mariposa

Earthworm
Lombriz

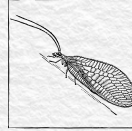
Citrus psyllid
Psílido cítrico

Parasitoid wasp
Avispa parasita



1

P B



2

P B



3

P B



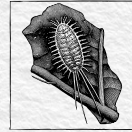
4

P B



5

P B



6

P B



7

P B



8

P B



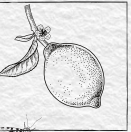
9

P B



10

P B



11

P B



12

P B

VENTURA COUNTY TOP CROPS

LAS COSECHAS PRINCIPALES DEL CONDADO DE VENTURA

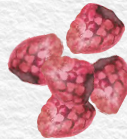
Number the top crops based on how much money they produce
Numera las cosechas principales por el dinero que ganan

ANNUAL CROP REPORT

Raspberries/ Moras.....	\$169 Million
Strawberries/ Fresas.....	\$712 Million
Avocados/ Aguacates.....	\$126 Million
Celery/ Apio.....	\$113 Million
Lemons/ Limones.....	\$254 Million



A



B



C



D



E

1

See answer key on page 16. Mira la clave en página 16.

SANTA BARBARA COUNTY TOP CROPS

LAS COSECHAS PRINCIPALES DEL CONDADO DE SANTA BARBARA

Number the top crops based on how much money they produce
Numerar las cosechas principales por el dinero que ganan

ANNUAL CROP REPORT

Cauliflower/ Coliflor.....	\$80 Million
Lettuce/ Lechuga.....	\$150 Million
Broccoli/ Brócoli.....	\$101 Million
Wine grapes/ Uvas de vino.....	\$105 Million
Strawberries/ Fresas.....	\$849 Million



A



B



C



D



E

See answer key on page 16. Mira la clave en página 16.

FOOD SUPPLY CHAIN

Fill in the blanks to show the journey a lemon takes to get from the farm to our tables using the word bank.

WORD BANK

Transportation Markets Growers
 Consumers (you!) Packing house Harvesters

1 _____



Growers plant and tend to lemon trees so that they grow big and strong. They need to make sure their crops get plenty of sunshine, water and nutrients.

2 _____



3 _____



Harvested lemons are cleaned, sorted, packed, and stored to be sent to customers.

4 _____



Lemons are then put onto trucks and transported to grocery stores, farmers markets, restaurants, food banks, processors, and anywhere food will be distributed.

5 _____



Retailers like grocery stores and supermarkets will receive the lemons to be sold to consumers.

6 _____



Consumers, like you and your parents, purchase lemons and other food items to be eaten. This is the last step in the food supply chain!

CADENA ALIMENTARIA

Llena los cuadros vacíos con la clave para mostrar el viaje que toma un limón para ir del rancho a nuestras mesas

CLAVE

Transportación	Mercados	Granjeros
Consumidores (tú!)	Empacadoras	Campeños

1 _____



Granjeros plantan y cuidan los árboles de limón. Aseguran que los árboles reciben sol, agua, y nutrientes.

2 _____



Una vez que los limones están listos, los campesinos usan varias herramientas para recogerlos.



3 _____



Las cosechas recogidas se limpian, clasifican, empaican, y guardan para enviarlas a los clientes.

4 _____



Los limones se transportan a tiendas, mercados, restaurantes, bancos de comida, y donde se distribuye comida.

5 _____



Tiendas y supermercados reciben los limones para venderlos a la gente.

6 _____



Personas como tú y tus padres compran los limones y otros productos para comer. Esto es el último paso de la cadena alimentaria.



VENTURA COUNTY FARMERS' MARKETS

MERCADOS AGRÍCOLAS DEL CONDADO DE VENTURA

SUNDAYS / DOMINGOS

Ojai: 9:00 AM to 1:00 PM, 300 E. Matilija Street

Oxnard: 9:00 AM to 2:00 PM, Harbor and Channel Islands Boulevards (Inc. Fish Market)

Westlake Village: 10:00 AM to 2:00 PM, Village Glen Plaza, 2797 Agoura Road

Moorpark: 9:00 AM to 1:00 PM, Moorpark City Hall parking lot, 799 Moorpark Ave.

WEDNESDAYS / MIÉRCOLES

Ventura: 7:00 AM to 1:00 PM, Ventura Cty. Fairgrounds Swap Meet & Farmers Mkt. (\$2)

Midtown Ventura: 9:00 AM to 1:00 PM, Pacific View Mall Parking Lot

THURSDAYS / JUEVES

Oxnard: 9:00 AM to 2:00 PM, Plaza Park at Fifth and C Streets

Thousand Oaks: 12:00 PM to 5:00 PM, The Oaks Shopping Center (East end parking lot)

East Ventura: 3:00 PM to 7:00 PM, Ventura Comm. Park, Corner of Kimball & Telephone Roads

FRIDAYS / VIERNES

Simi Valley: 11:00 AM to 3:30 PM, Regal Theater Parking Lot, 2757 Tapo Canyon Road

Santa Paula: 3:00 PM to 7:00 PM, in front of the Train Depot, 963 E Santa Barbara St

Simi Valley: 4:00 PM to 8:00 PM, Simi Valley Town Center, 1555 Simi Town Center Way

SATURDAYS / SÁBADOS

Camarillo: 8:00 AM to 12:00 PM, 2220 Ventura Blvd.

Ventura: 8:00 AM to 11:00 AM, (fish market only) 1449 Spinnaker Drive

Downtown Ventura: 8:30 AM to 12:00 PM, Palm and Santa Clara streets

VENTURA COUNTY ROADSIDE STANDS PUESTOS DE CARRETERA DEL CONDADO DE VENTURA

SANTIAGO'S FRUIT STAND
4551 Olivas Park Drive, Ventura

TERRY'S BERRIES
7618 Telephone Rd, Ventura
(seasonal)

FRIEND'S RANCH
15150 Maricopa Highway, Ojai
(Tues & Fri, 7 AM - 12 PM)

MCGRATH FAMILY FARM
1012 W. Ventura Blvd, Camarillo





NORTHERN SANTA BARBARA COUNTY FARMERS' MARKETS

MERCADOS AGRÍCOLAS DE SANTA MARIA

TUESDAYS/ MARTES

Orcutt: 10:00 AM to 1:00 PM. The Orcutt Certified Farmers Market offers produce including vegetables, citrus, strawberries, local honey, fresh eggs, baked goods, and jams.

WEDNESDAYS / MIÉRCOLES

Santa Maria: 12:00 PM to 4:00 p.m. Located in Town Center West at the corner of Broadway and Main

FRIDAYS / VIERNES

5:00 PM to 8:00


Downtown Fridays: Family-friendly event with a certified farmer's market, live music, food booths, food trucks, arts and crafts, kids' activities, novelty items, and a beer and wine tent.

BLOSSER URBAN GARDEN

915 S Blosser Rd, Santa Maria, CA 93458

Tuesdays to Saturdays 10:00 AM to 2:00 PM.

Blosser Urban Garden is a sustainable, small-scale organic farm which provides sustainable agriculture to the Santa Maria area. They provide organic and seasonally produce delivered right to your door, or you can stop by for a pick-up



DARRENSBERRIES


Highway 101 at E. Betteravia Rd. behind Pappy's restaurant

February to October

This seasonal stand sells fresh-picked strawberries, grown by Darren.

GREAT BOOKS ON AGRICULTURE

BUENOS LIBROS DE AGRICULTURA



We Are the Gardeners
by Joanna Gaines

Right This Very Minute
by Lisel H. Dethlefsen

Up In the Garden and Down In
the Dirt
by Kate Messner

Grandpa's Tractor
by Michael Garland

Harvesting Hope: The Story of
Caesar Chavez
by Kathleen Krull

Farm Tools and Machines.
by Left Brain Kids

Save the Bees, Save the Earth
by Bethany Stahl

My Big Farm Book
by Roger Priddy

Milk: From Cow to Carton
by Ailiki Brandenberg



JOBS IN AGRICULTURE

TRABAJOS EN AGRICULTURA

Water Science - Agricultural Engineer

Agricultural Engineers can design irrigation systems that works for each crop. They can even build special irrigation systems underground called micro (meaning tiny) irrigation, which helps save water.



Soil Science - Crop Advisor



Crop advisors help farmers to grow plants. They help to keep healthy soils and can recommend nutrients to give plants so they grow big and strong.

Plant & Insect Science -Entomologist

Entomologists study insects and how they interact with plants. Some of them even grow beneficial insects to sell to farmers to keep pests under control.



Notes

NOTAS

VOCABULARY

VOCABULARIO

Agriculture

Agricultura

The science or practice of farming

La ciencia de cultivar plantas

Beneficial Insect

Insecto beneficioso

An insect that helps crops by pollinating plants, eating pests, making healthy soil and more.

Un insecto que ayuda los cultivos polinizando plantas, comiendo parásitos, haciendo tierra sana, or algo mas.

Crop

Cosecha

A crop is one plant that is grown in large quantities that will be used for food, clothes, or fuel

Una planta sembrada en cantidades grandes para comida, ropa, o combustible

Entomology

Entomología

The study of insects

El estudio de insectos

Fruit

Fruta

The sweet and fleshy part of a plant that contains seeds

El dulce y carnosos parte de una planta que tiene semillas

Groundwater

Agua subterránea

Water held underground in the soil or in pores and crevices in rock

Agua dentro de poros y grietas en la tierra o rocas

Harvesting

Cosechar

The act or process of gathering a crop

Procesar y recoger los cultivos

Irrigation

Irrigación

The man-made method in which water is supplied to plants at regular intervals for agriculture

Un método de regar las cosechas regularmente

Macroorganisms

Macroorganismo

An organism large enough to be seen by human eye, like worms

Un organismo que se puede mirar a simple vista como lombrices

Microorganism

Microorganismo

An organism too small to be seen by the human eye, especially a bacterium, virus, or fungus

Un organismo que no se puede mirar a simple vista como bacterias y hongos

Minerals

Minerales

Solid substances that occur naturally. Minerals by themselves or together make up rocks. The Earth is made up of thousands of different minerals.

Una sustancia sólida que ocurre naturalmente. Los minerales solos o combinados pueden formar rocas. El mundo está hecho de miles de minerales diferentes.

Organic matter

Materia orgánica

Matter that has come from a recently living organism. It is capable of decay, or is the product of decay. The organic matter in soil comes from plants and animals.

Material de plantas y animales muertos

Pest

Parásito

A destructive insect or other animal that harms crops, food, livestock, etc.

Un insecto u otro animal que hace daño a las cosechas

Photosynthesis

Fotosíntesis

The process by which green plants and some other organisms use sunlight to synthesize glucose (food) from carbon dioxide and water

El proceso de plantas verdes que usa la luz del sol para producir glucosa (comida)

Pollination

Polinización

The transfer of pollen from the anthers of a flower to the stigma of the same or another flower; the prerequisite for fertilization

La fecundación por transferencia de polen de flor a flor

Pollinator

Polinizador

A animal that spreads pollen like a bee, butterfly, or hummingbird

Un animal que mueve polen como una abeja, mariposa, o chuparrosa

Soil

Tierra

The upper layer of earth in which plants grow, a black or dark brown material typically consisting of a mixture of organic matter and rocks/minerals

La capa superficial de tierra donde se crece plantas, un material hecho de una mezcla de materia orgánica y rocas/minerales

Surface water

Aguas superficiales

Water that collects on the surface of the ground like a stream, lake or river

El agua que está en la superficie de la tierra como un arroyo, lago, o río

Vegetable

Verdura

A plant or part of a plant that is used as food

Una planta o parte de una planta que se come

ANSWER KEY/ CLAVE

PG. 3 - SOIL/TIERRA

- (1) Air/Aire (2) Water/Agua (3) Organic matter/Materia organica (4) Rocks/Rocas
(5) Sand/Arena (6) Silt/Limo (7) Clay/Barro

PG. 4- WATER CYCLE/ CICLO DE AGUA

- (1) Evaporation/Evaporación, (2) Condensation/Condensación
(3) Precipitation/Precipitación, (4) Transpiration/Transpiración
(5) Groundwater Infiltration/Infiltración de agua subterránea
(6) Groundwater Extraction/Extracción de agua subterránea

PG. 5 PARTS OF A PLANT

- (1) Flower/Flor, (2) Seed/Semilla, (3) Leaf/Hoja
(4) Fruit/Fruta, (5) Root/Raíz, (6) Trunk/Tronco

PG. 6 - INSECTS ON THE FARM

- (1) Snail/Caracol, (2) Lacewing/Crisopa, (3) White grub/Larva blanca
(4) Honey Bee/Abeja, (5) Earthworm/Lombriz, (6) Mealybug/Cochinilla
(7) Mealybug destroyer/Destructor cochinilla, (8) Ladybug/Mariquita
(9) Butterfly/Mariposa, (10) Aphid/Aphid, (11) Citrus psyllid/Psilido citrico
(12) Parasitoid wasp/Avispa parasitoide

PG. 11 - VENTURA COUNTY TOP CROPS

- (A) 5, (B) 3, (C) 2, (D) 4, (E) 1

PG. 11 - SANTA BARBARA COUNTY TOP CROPS

- (A) 3, (B) 4, (C) 5, (D) 2, (E) 1

PG. 13/14 - FOOD SUPPLY CHAIN

- (1) Production/Producción, (2) Harvesting/Consechar, (3) Packing/Empacar
(4) Distribution/Distribución, (5) Store/Tienda, (6) Consumer/Consumidor

SEE AG

STUDENTS FOR ECO-ED & AG

Students for Eco-Education and Agriculture is 501(c)3 non-profit organization. Our mission is to educate students and the greater community about the farm origins of their food and agriculture's contribution to our nutritional well-being.

To learn more about our organization, visit www.seeag.org or find us on social media @seeag_org!

Thank you for joining us,
Team SEEAG

SEEAG es una organización sin fines de lucro propia 501(c)3. Nuestra misión es educar a los estudiantes y la comunidad sobre los orígenes de su comida y la contribución de la agricultura a nuestro bienestar nutricional.

Para aprender más sobre nuestra organización, visita www.seeag.org o encuétranos en las redes sociales @seeag_org!

Gracias por venir,

Equipo SEEAG

*Save
the
Dates*

SANTA BARBARA COUNTY FARM DAY
www.santabarbaracountyfarmday.com

VENTURA COUNTY FARM DAY
www.venturacountyfarmday.com



13721 W. TELEGRAPH RD. SANTA PAULA, CA 93060
PHONE: (805) 901-0213 TAX ID: 37-1639971

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