

A man wearing a light-colored cowboy hat and a purple button-down shirt is standing in an orchard. He is holding a ripe peach in his right hand. He has a blue harness or bag slung over his shoulder. The background is filled with green leaves and some yellow flowers, suggesting a peach orchard. The overall scene is bright and natural.

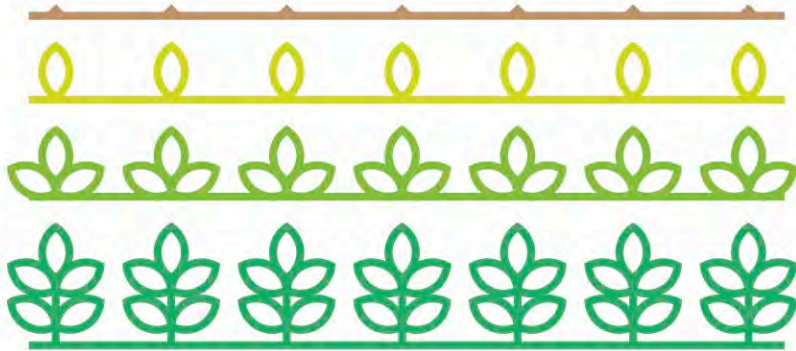
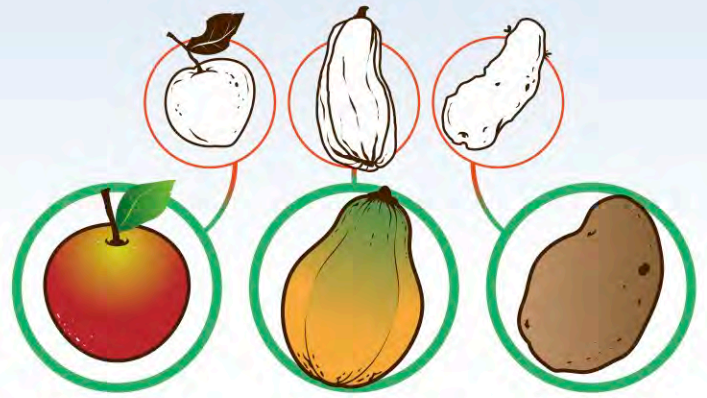
PROTECTING
CROPS
PROTECTS
FOOD.

KEEP GROWING



Crop protection means **more quality ingredients** for the food industry and **less waste overall**.

Because crop protection tools help farmers grow stronger, higher-yielding plants, **the food industry gains access to high-quality, affordable ingredients.**



With crop protection tools, more plants in a field **grow to final maturity**, reducing waste of fruit, vegetables and grain that never makes it to market.

By growing stronger, healthier and less-flawed food, **the food industry gains higher-quality food products** like fruit to larger vegetables and more optimal grain.

Crop protection tools are highly regulated throughout the food chain, and farmers take food safety extremely seriously.



Crop protection tools are regulated at every stage of their development and use, including **transportation, proper handling, labeling** and **residue levels**.



Before crop protection tools are available to use on farms, they are **rigorously tested for safety to humans and the environment**. After that, they must be approved by the U.S. Environmental Protection Agency.



On the farm, farmers and their workers must use crop protection tools exactly as the label dictates, and a failure to do so is a federal law violation. In many states, **farmers and their employees must be certified applicators**, which assures the applicator is knowledgeable in using pesticides safely for human health, wildlife and the environment.

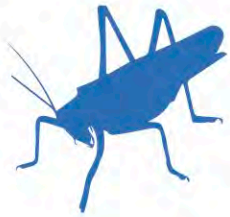


Farmers must also ensure that crop protection tools aren't applied before harvest, and many commodities are washed or processed in the supply chain, further **minimizing carryover into the food supply**.





Crop protection tools help manage **insects**, **weeds** and other factors that make growing plants difficult. This enables plants to grow healthy and strong.



Crop protection tools help plants grow **strong and healthy**.

Many organic vegetables, herbs and other plants still need protection from insects. By using a natural crop protection tool, a fermented soil bacterium, plants can overcome stress caused by insects and worms.

Organic crops use crop protection tools, too, including biologicals that come from natural sources, like:

FUNGUS



BACTERIA



PHEROMONES

Humans have been using crop protection as long as they've grown food.



IN 3000 BC

ancient Sumerians used **sulfur** on plants to better control insects.



IN 600 BC

Greeks and Romans used **oil, ash** and **sulfur** to deter insects from destroying plants.



IN THE 1600s

farmers used nicotine from **tobacco** infusions and a range of **herbs** for crop protection.



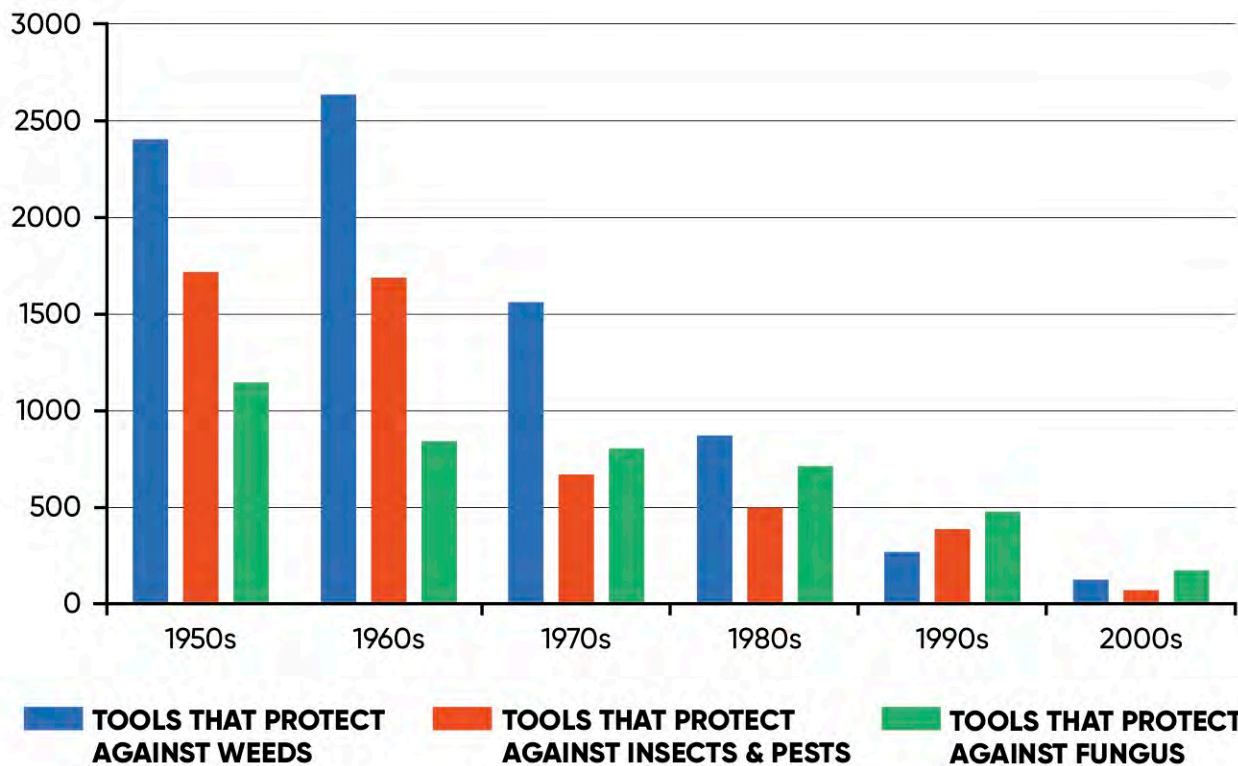
IN THE 1800s

Crop protection tools like **sulfur and copper compounds** were used to grow stronger fruits, vegetables and plants.



Crop protection tools help manage pests and weeds, while enabling plants to **grow strong.**

Farmers have used 95% less active ingredients on their fields and orchards than in the 1950's, and we continue to innovate to deliver protected crops, fruits, vegetables and nuts to the food industry.



Source: Phillips McDougall, 2017



At Corteva, we know consumer preferences are changing. Our team will work with you to ensure we meet your needs and help you solve your food industry problems.

Contact us at letstalkfood@corteva.com to learn more about crop protection and how our products and science can help grow your business and solve your challenges.



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