



2020

CLIMATE CHANGE & ITS  
EFFECTS + COVID 19

On avocado, potato,  
strawberry and basic grain  
crops in Honduras

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VIDEO EXHIBITOR

# Perception of the majority of producers



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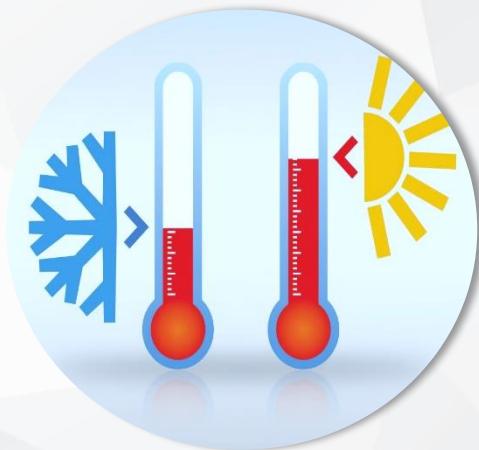
# 01 Components of climate change that currently affect agriculture in Honduras.



RAINFALL  
PRECIPITATION



RELATIVE  
HUMIDITY



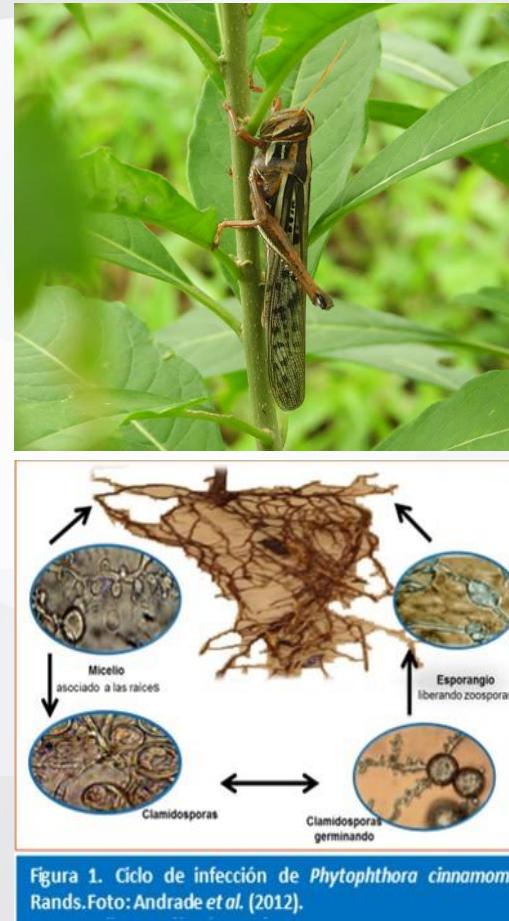
TEMPERATURE

VIDEO EXHIBITOR

## 02 AVOCADO PRODUCTION

Increase in fungal diseases due to sudden changes in precipitation, temperature and relative humidity present in the environment.

For Example: Phytophthora.  
Presence of new insect pests, like:  
*Schistocerca cancellata*.



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## 02 POTATO PRODUCTION

Currently there is the presence of insect pests in winter, when previously they only occurred in summer, for example: Paratrioza (*Bactericera cockerelli*)



VIDEO EXHIBITOR

# 02 POTATO PRODUCTION

The blight is a real problem due to sudden changes in precipitation and temperature, causing reduction in production and high consumption of fungicides. (*Phytophthora infestans*).



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## 02 STRAWBERRY PRODUCTION

In **2018, 4.9 hectares** of this crop were lost in Honduras due to agroclimatic factors that favored a high proliferation of fungal diseases: Alternaria, Pestalotia and Fusarium.

The current strawberry varieties require more hours of cold temperature to achieve excellent production, which is why work is still being done on the incorporation of neutral day temperature varieties with more resistance to fungal problems.

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## 02 BASIC GRAIN CROPS PRODUCTION

Pests mutate and present an impact on crops, among them is the spread of exotic pests, which cause an increase in phytosanitary surveillance. Example: Central American Flying Locust (2020), endemic in Central America.

From 1945 to 1950 it had devastating effects and destroyed all kinds of crops that it found in its path: grasses, pastures, beans, vegetables and fruit trees.

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03

## Impact in the production during the COVID-19 period in Honduras.

The pandemic is affecting global food systems, disrupting agricultural value chains at the regional level and posing risks to household food security.

WHO, 2020

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# 03 AVOCADO PRODUCTION

Loss of plants in nurseries due to the fact that producers cannot circulate due to quarantine.

Lack of human resources on farms for their maintenance.



Considerable decline in established areas of new plantations.



Difficulties in marketing and selling the fruit to the main businesses in the country.

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## 03 POTATO PRODUCTION

Low availability of potato seeds between March-August 2020 due to the lack of transport and importation of the seeds.

High price of potato seed, due to the pandemic it presents a price of \$ 100 dollars per quintal (220.46 lb).

Plots with damage caused by pests and diseases due to lack of agricultural inputs materials because the agricultural input firms or dealers are closed during the quarantine.

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## 03 POTATO PRODUCTION

Given the lack of employment, the number of new intermediaries for the purchase and sale of potatoes has increased and these intermediaries without experience ask producers to harvest before the crop completes its cycle.

Competition between locally produced potatoes vs. imported pre-fried potatoes.

The intermediaries and transporters of potatoes to national markets have been the first to get infected with Covid 19 in Intibucá.

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## 03 STRAWBERRY & BASIC GRAINS PRODUCTION



Considerable losses in the sale of fresh strawberries have occurred, our producers had to sell frozen strawberries at a lower price.

Delay in the process of acquiring new materials from the USA for new crops to be planted.

Increase in the cost of inputs such as fertilizers and agrochemicals for the management of pests and diseases.

Scarce availability of seeds.

Lack of transportation to other markets.

Lack of workers in the farms.



**VIDEO EXHIBITOR**

# 04 WHAT TO DO?

For **AVOCADO**:

- Thanks to the support of Taiwan, a bonus (Plants or fertilizers) has been given to producers who acquire plants during this pandemic.



SAG/DICTA-ICDF TAIWAN

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# 04 WHAT TO DO?

## For POTATO:

Thanks to Taiwan we are **producing** quality seed in Honduras, under protected structures with analysis of Viruses, fungi and bacteria, and at lower prices reducing 45% of its cost in the market.



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# 04 WHAT TO DO?

## FOR STRAWBERRY:

Thanks to Taiwan, we are in the process of acquiring 2 new strawberry varieties (Festival & San Andrea), with technical assistance and monitoring of market for fresh fruit and industry.



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# 04 WHAT TO DO?

The Government of the Republic of Honduras through the SAG incorporates the **Productive Solidarity Bonus** in the face of the pandemic, increasing crops such as: corn, beans, sorghum, rice, avocado, strawberry, potato and pitahaya; this **Bonus** consists on the provision of fertilizers and seeds or plants with technical support.

## BASIC GRAINS



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A hand is shown from the left side of the frame, palm up, holding a glowing Earth globe. The globe is centered and appears to be floating. The background is a dark blue space filled with small white stars.

Thanks  
For Your Attention

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