Brazilian Citrus Overview

VINICIUS TROMBIN

EXECUTIVE COORDINATOR OF THE ORANGE CROP FORECAST SURVEY FOR THE THE SÃO PAULO AND WEST-SOUTHWEST MINAS GERAIS CITRUS BELT FUNDECITRUS / MARKESTRAT



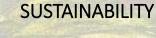
Man for the state



CIÊNCIA E SUSTENTABILIDADE PARA A CITRICULTURA



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AGENDA

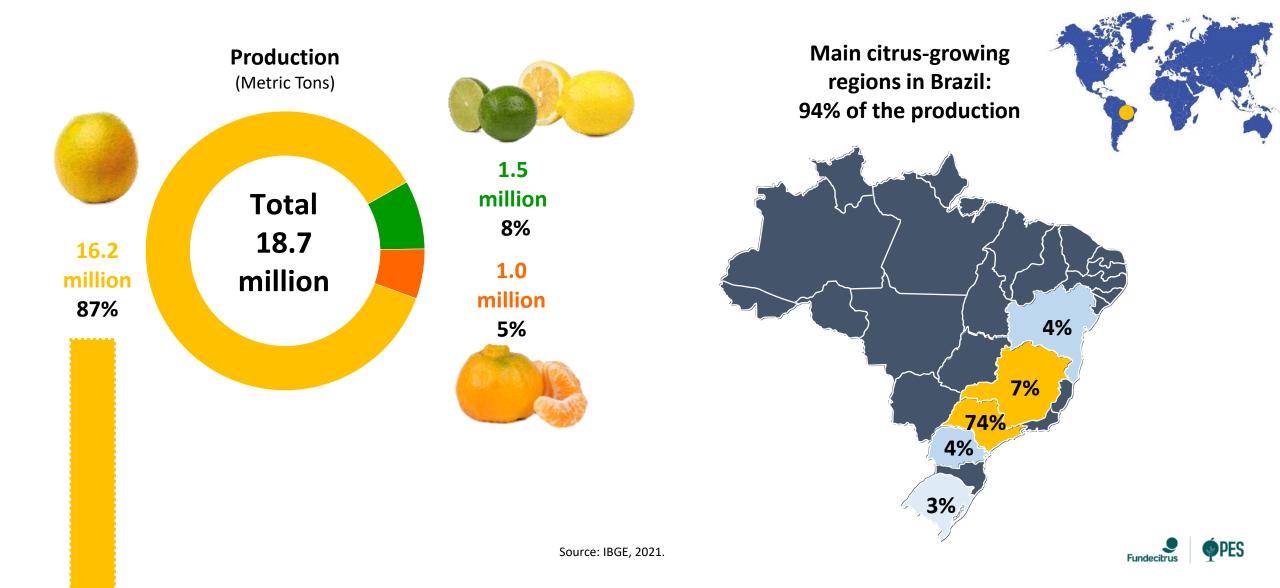
BRAZILIAN CITRUS SECTOR

2023-2024 ORANGE CROP FORECAST FOR THE BRAZILIAN CITRUS BELT

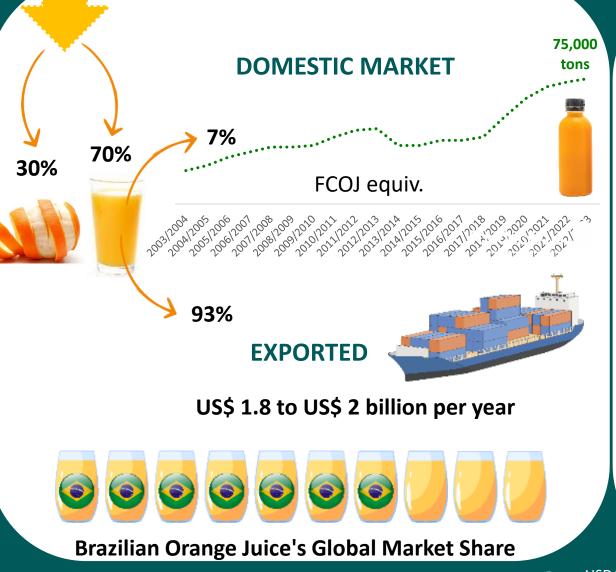
WHAT TO EXPECT FROM THE BRAZILIAN ORANGE PRODUCTION

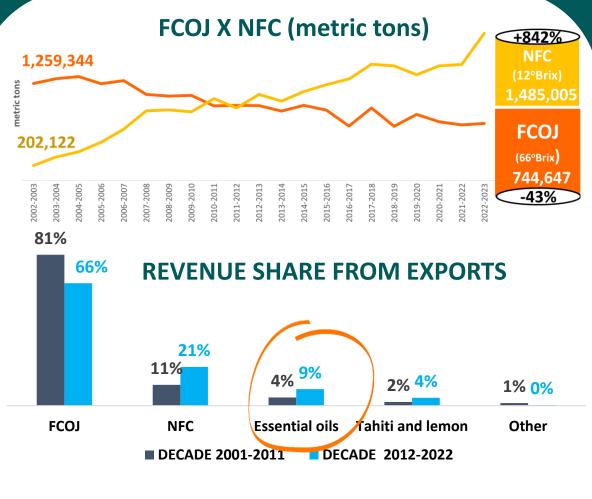


BRAZILIAN CITRUS PRODUCTION



BRAZILIAN CITRUS INDUSTRY MARKET





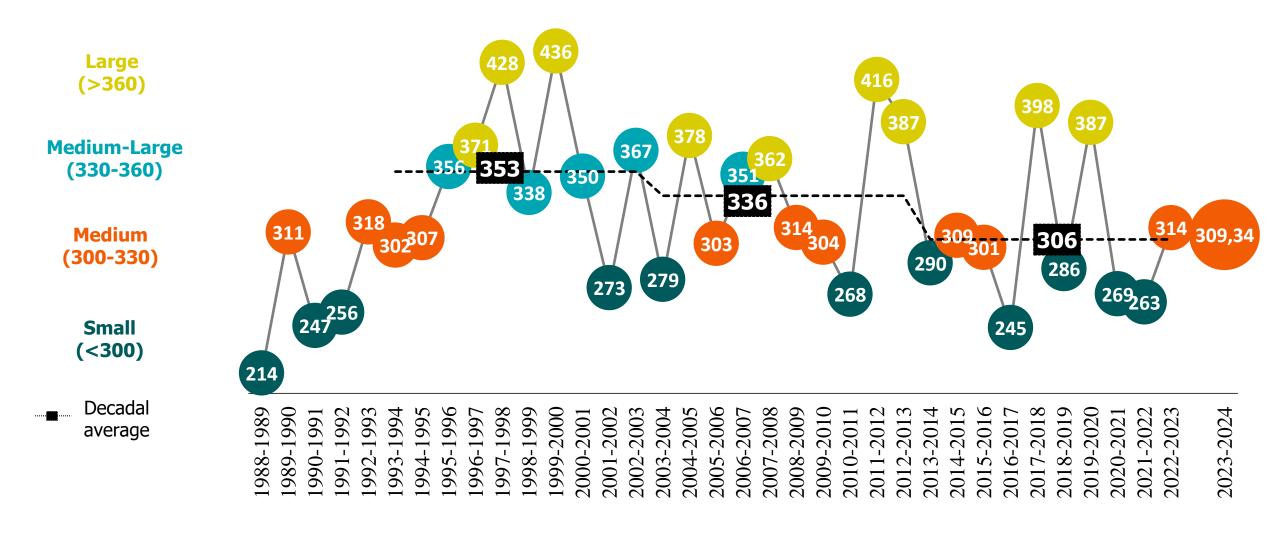
MORE THAN 98% OF EXPORTS COMES FROM THE CITRUS BELT

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Fonte: USDA, Secex.

SÃO PAULO AND MINAS GERAIS CITRUS BELT ORANGE CROP PRODUCTION







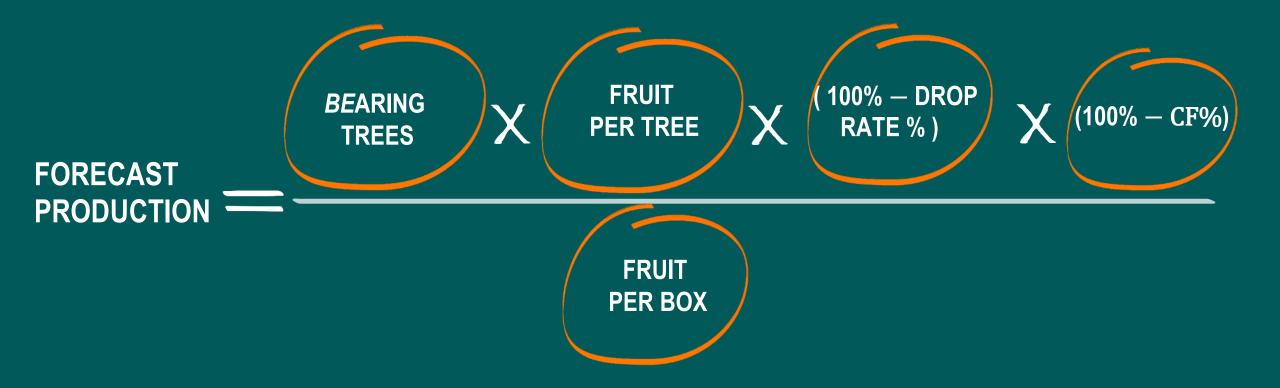
OBJECTIVE METHOD



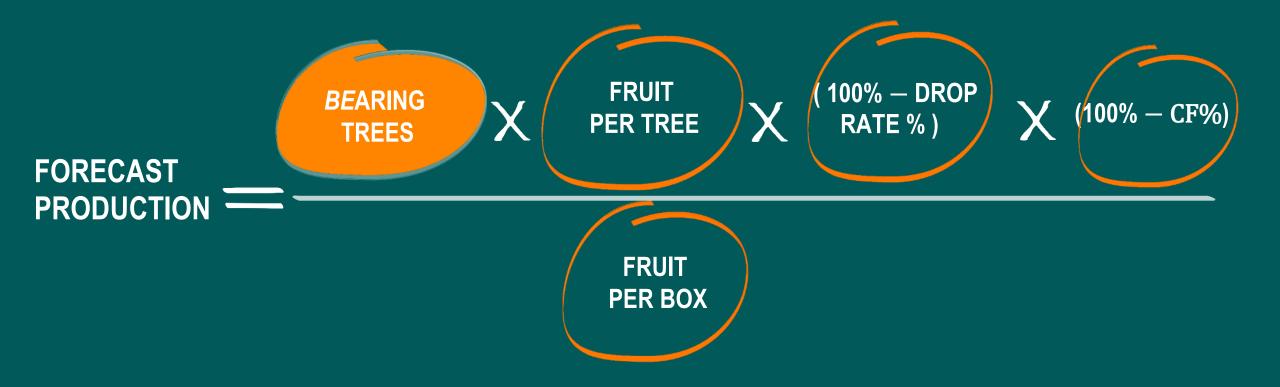
TECHNICAL COMMITTEE

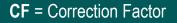














EVERY THREE YEARS

EVERY THREE YEARS,

THE FIELD SURVEY





ALL CITRUS PLOTS ARE VISITED FOR A NEW *IN LOCO* DATA COLLECTION

- OUTLINE THE PLOT
- VARIETY

YEARS

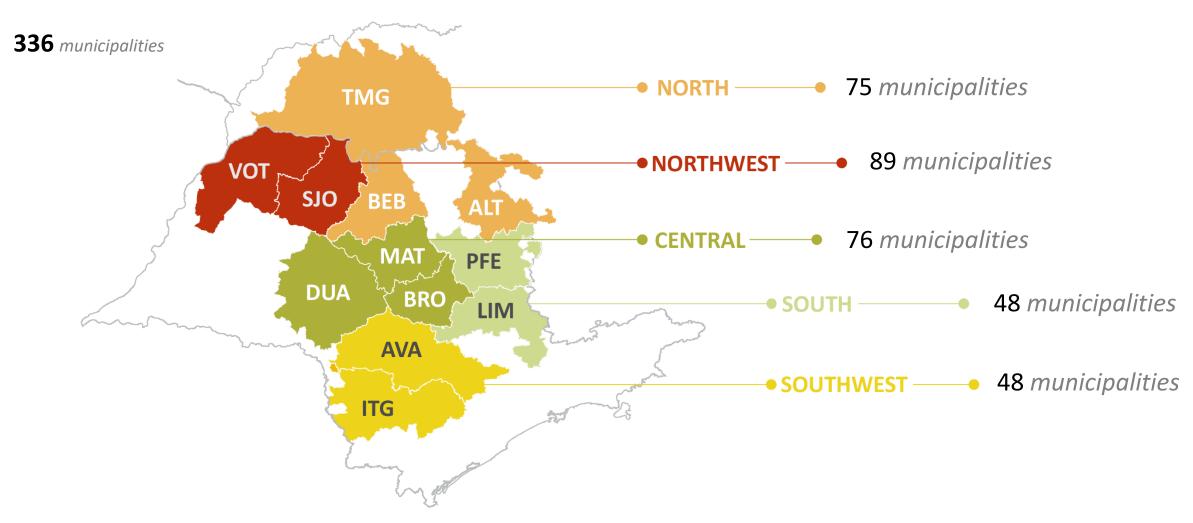
EVERY THREE

- PLANTING YEAR
- SPACING
- IRRIGATION SYSTEM

DATA IS AUDITED IN LOCO DURING MAPPING



Sectors and regions





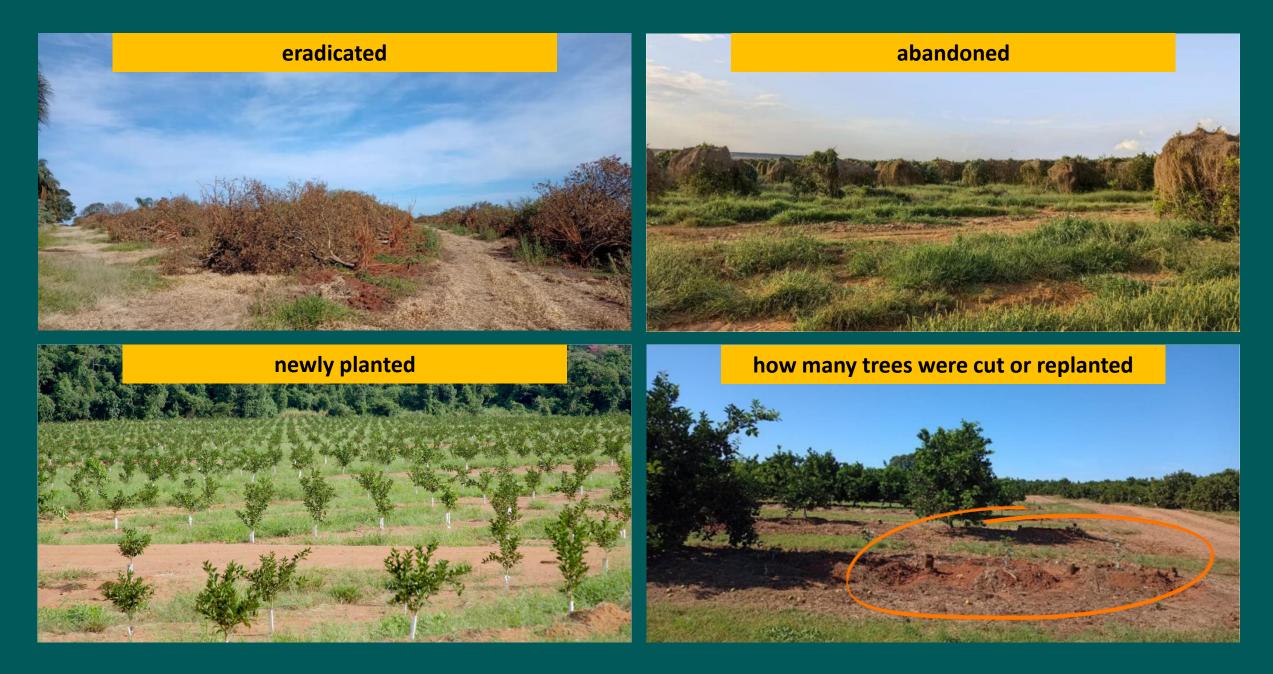
KEEP THE NUMBER OF TREES UPDATED

5% OF THE MAPPED PLOTS ARE RANDOMLY SELECTED BY STRATIFIED SAMPLING

> JAN FEB MAR

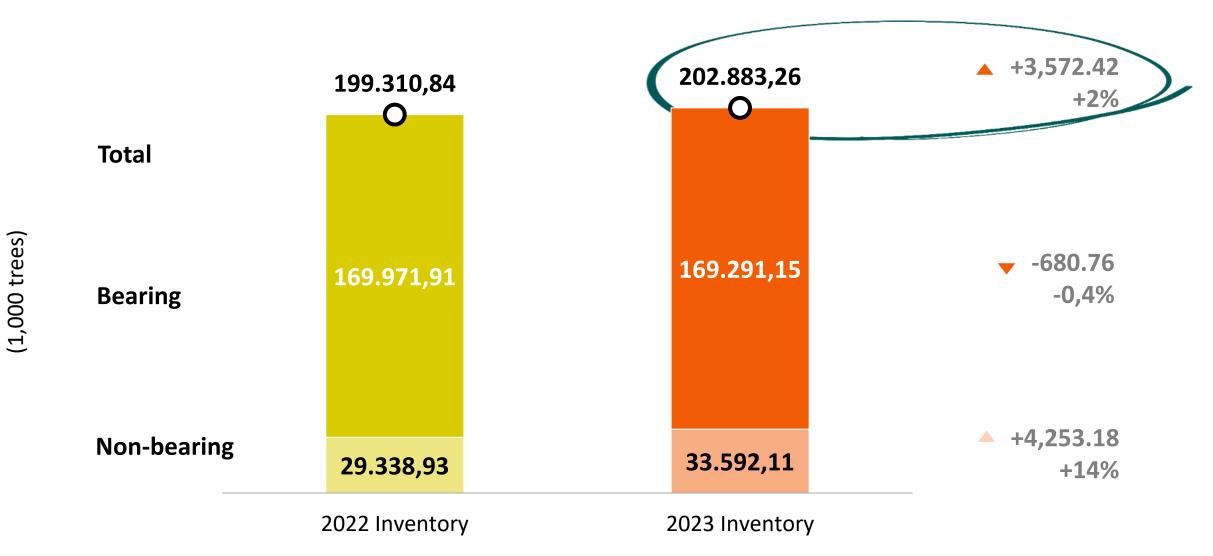


EVERY YEAR

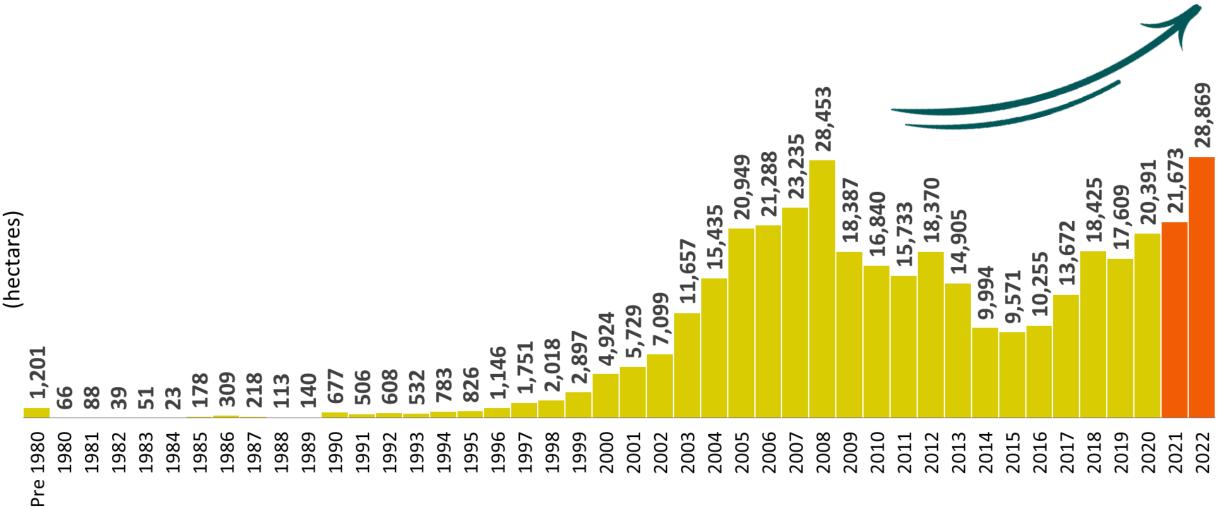




ORANGE TREES



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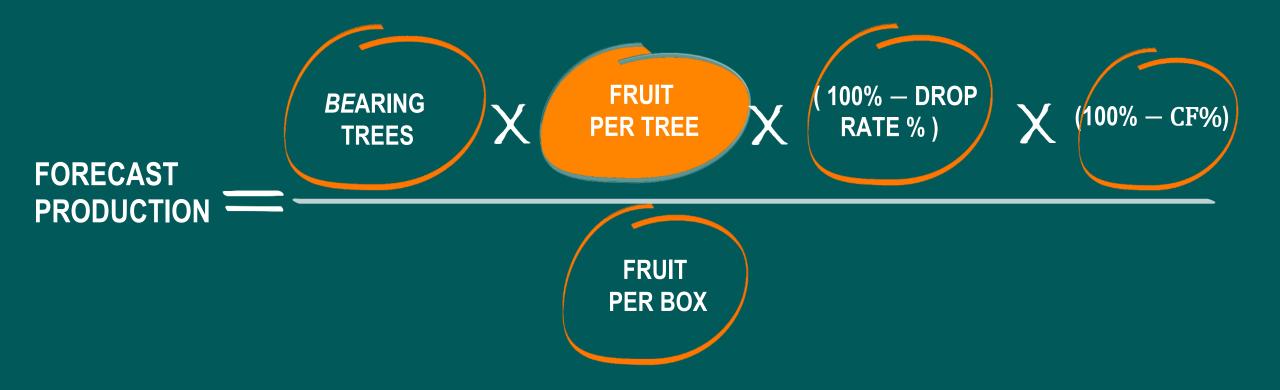


AREA OF ORANGE BY YEAR SET

Mature groves

Young groves







MAR APR

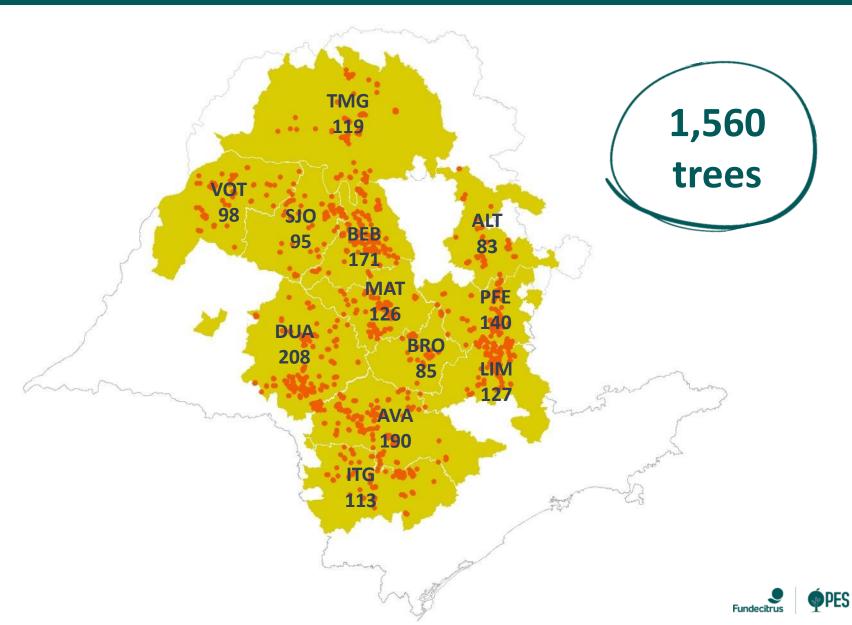
STRIP FRUIT OFF TREES IN PLOTS SELECTED BY STRATIFIED SAMPLING

EVERY YEAR

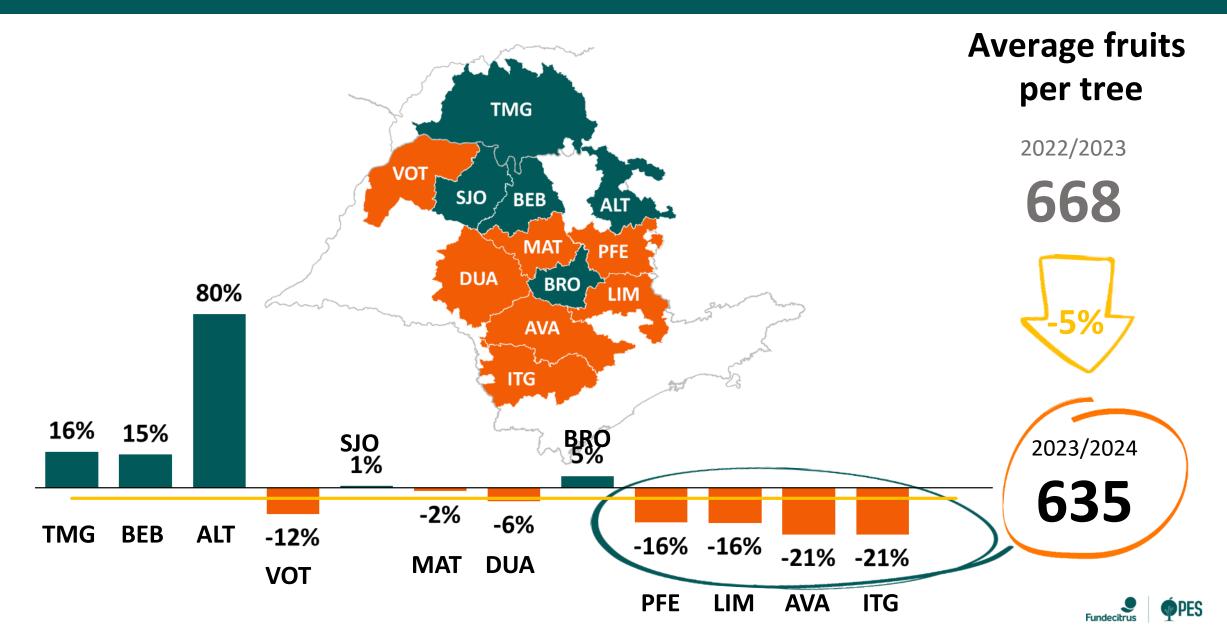


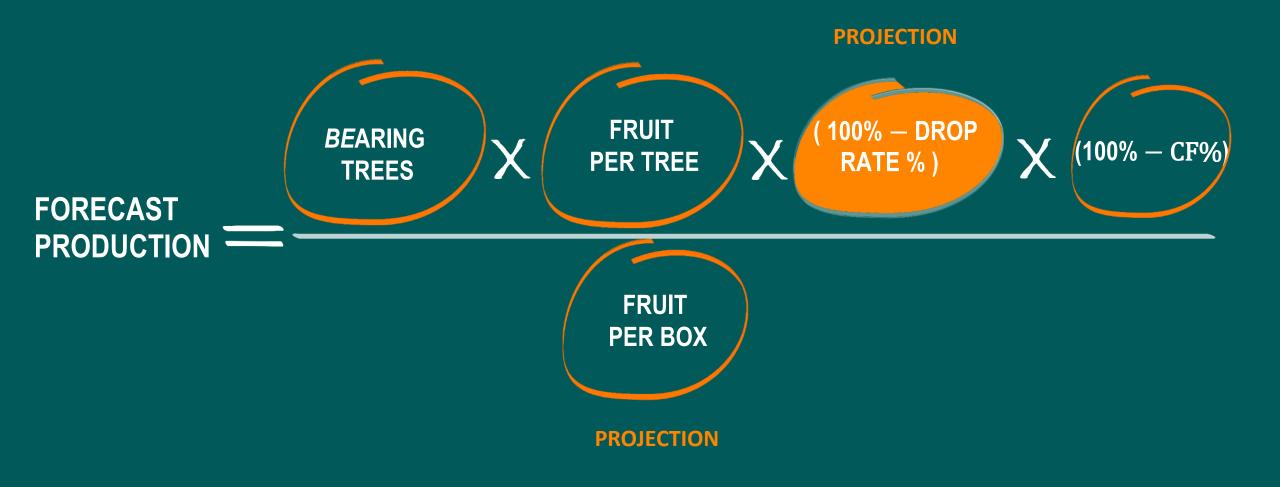
LOCATION OF RANDOMIZED TREES STRIPPED •





NUMBER OF FRUITS PER TREE COMPARED TO THE PREVIOUS CROP







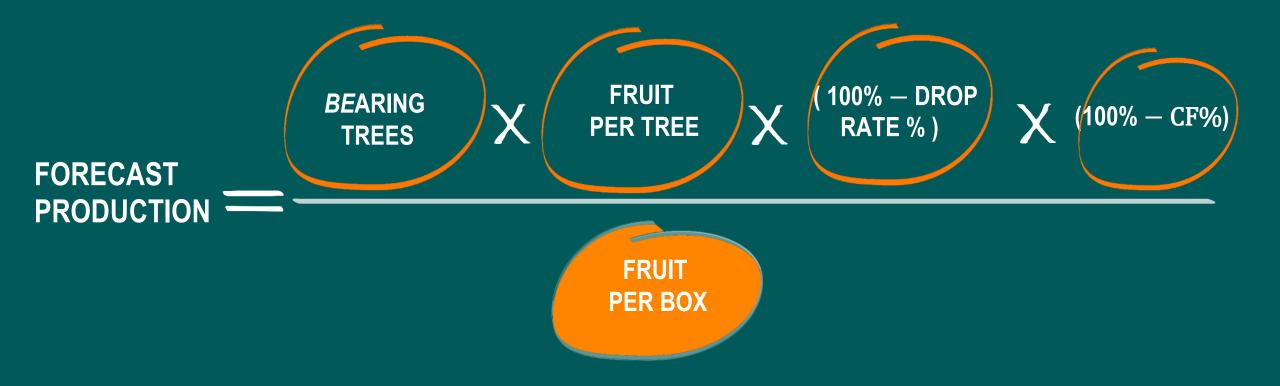


PROJECTED FRUIT DROP FOR 2023-2024



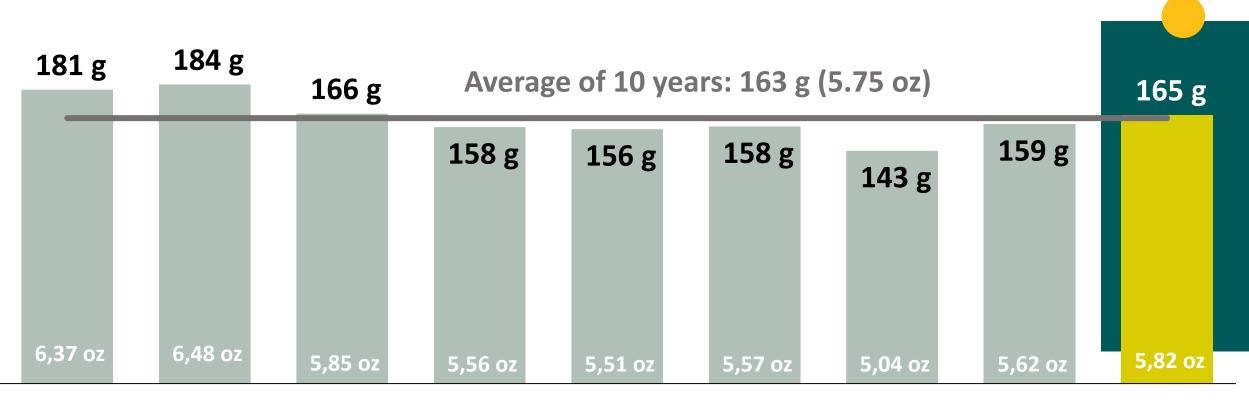








FRUIT SIZE IS PROJECTED BY A REGRESSION



2015-2016 2016-2017 2017-2018 2018-2019 2019-2020 2020-2021 2021-2022 2022-2023 2023-2024



HARVEST PROGRESSES

FRUIT SIZE AND FRUIT DROP RATE

M

JL

JL

A

SE

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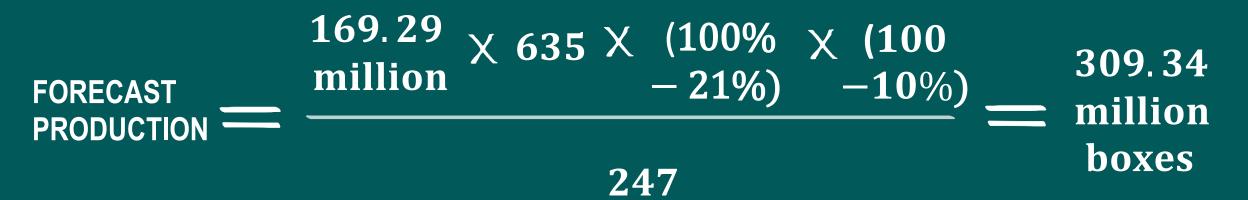
 	
AY, 10	CROP FORECAST
JNE	
JL	
UG	
EP, 11 —	
СТ	
OV	
EC, 11 -	
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B,09 —	
IAR	
PR, 10 -	





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CF = Correction Factor



PUBLIC ANNOUNCEMENT / BROADCAST LIVE



www.fundecitrus.com.br/pes/estimativa



O FUNDECITRUS	DOENÇAS E PRAGAS	PESQUISA	PÓS-GRADUAÇÃO	PES	COMUNICAÇÃO	SUSTENTABILIDADE	DOWNLOADS	TECNOLOGIAS	EMU	CONTATO
		Home / PES / Estimativa Arquivos para downlor 2023/24 2022/23 2021/22 2020/21 2019/20 2018/19 2016/17 2015/16	ad		DODATION OF CONTRACTOR OF CONT	narkestrat	<image/> <image/> <image/> <text><text><text><text></text></text></text></text>	Specimizer, 11 2023 Parkingtime register: (breacher 2023-3324] Descriptions register: (breacher 2013-3324) Statume register: (b	<section-header><section-header><section-header><section-header><text><text></text></text></section-header></section-header></section-header></section-header>	
				ACESSE O VÍCEO E			fruit year	s to compose a 40.8 kg box. This is equivalent to oranges of s, which is 163 grams/5.75 oz. The sizes by sector and variet	the in relation to the projection made in May 2023, which is 247 (65 grams/5.82 oz, weight slightly above the average of the last 10 y are shown in Table 2.	

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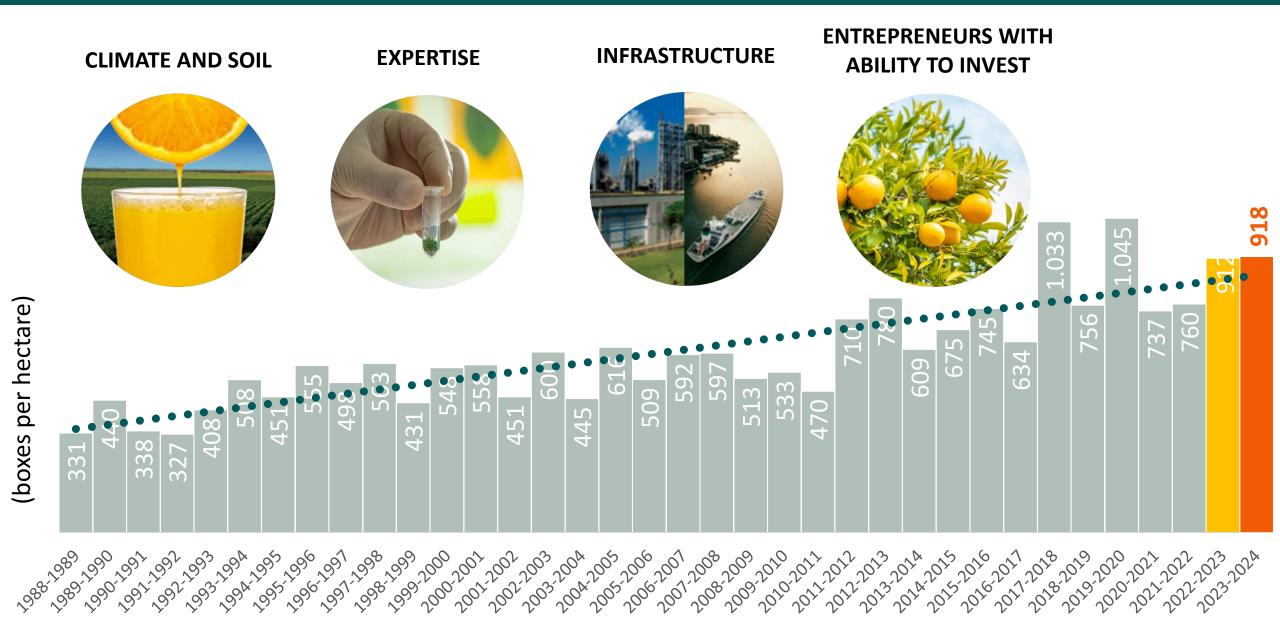
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WHAT TO EXPECT FROM BRAZIL AS A GLOBAL SUPPLIER OF ORANGE JUICE?

A REAL PROPERTY AND ADDRESS OF TAXABLE PARTY.



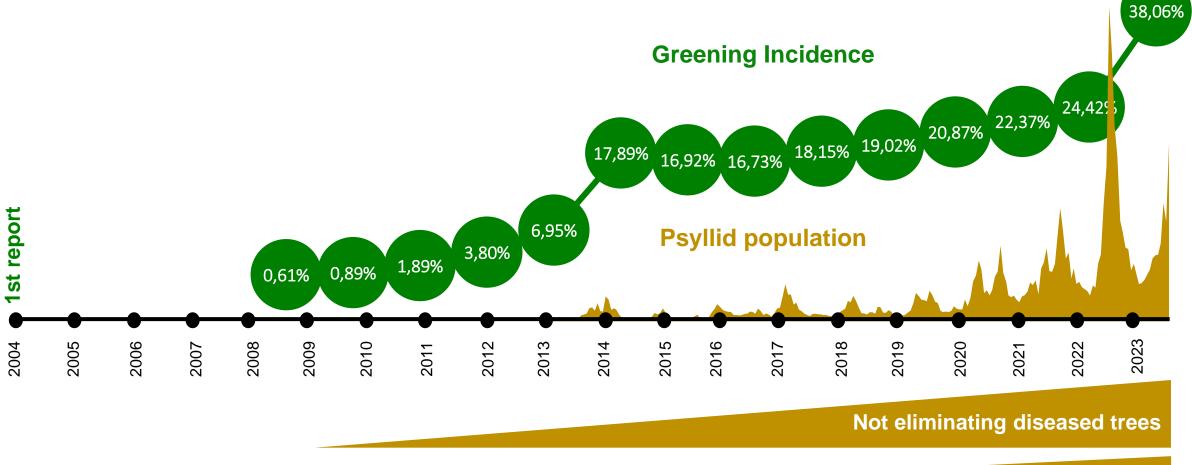
BRAZIL HAS COMPETITIVE ADVANTAGES



BUT HOW GREENING IS IMPACTING PRODUCTION?



GREENING INCIDENCE HAS SIGNIFICANTLY INCREASED THIS YEAR

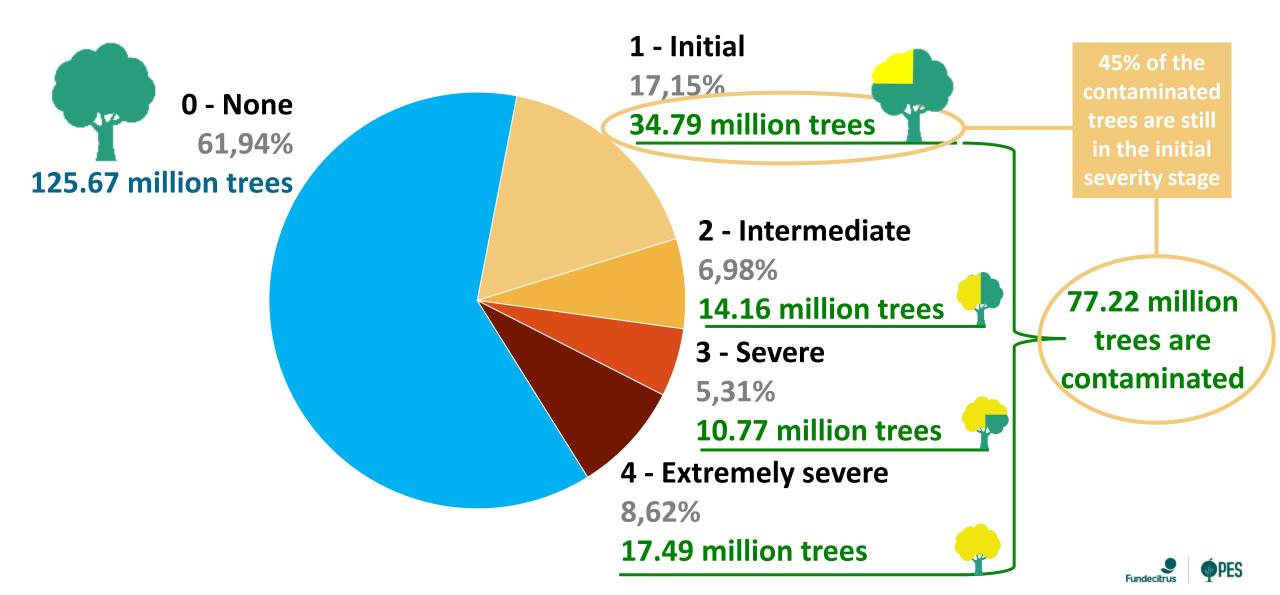


Intensification of flushing due to increased irrigation and pruning

Non-rotation "psyllid resistance"



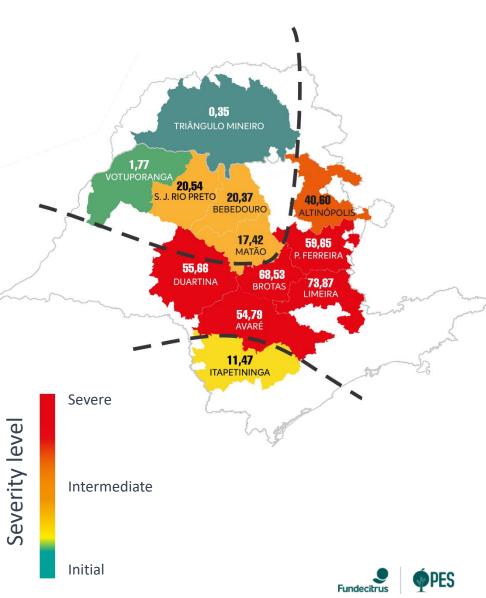
SEVERITY IS STILL LOW



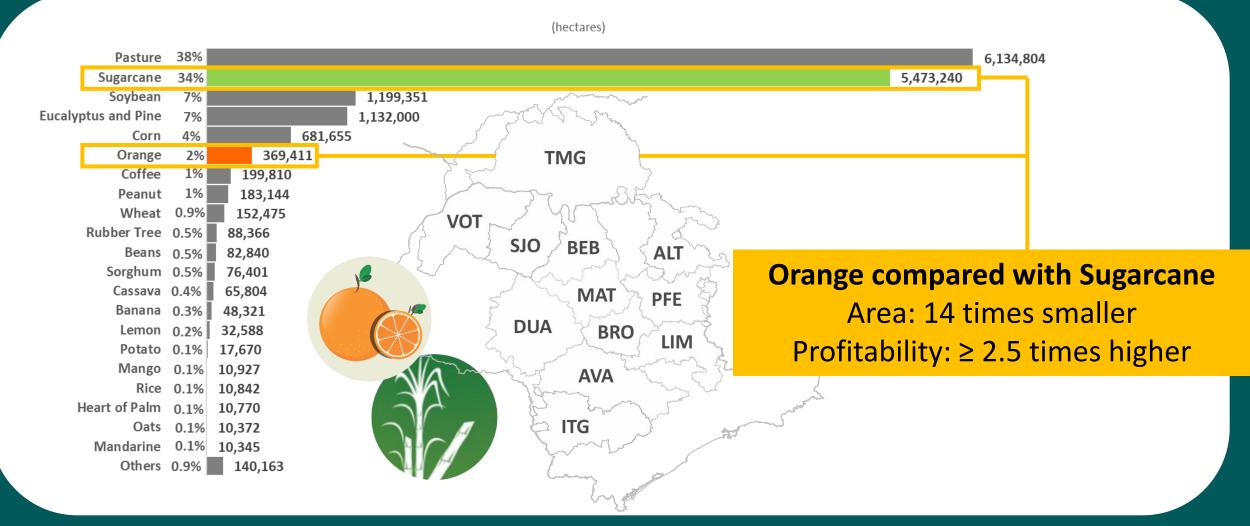
WHAT ARE CITRUS GROWERS DOING NOW TO MAINTAIN PRODUCTION STABILITY IN THE FUTURE?

AREAS WITH LOW GREENING INCIDENCE WITHIN THE BELT AND ISOLATED





AREAS USED FOR OTHER CROPS AND LIVESTOCK IN SÃO PAULO THAT CAN BE CONVERTED TO ORANGE PRODUCTION

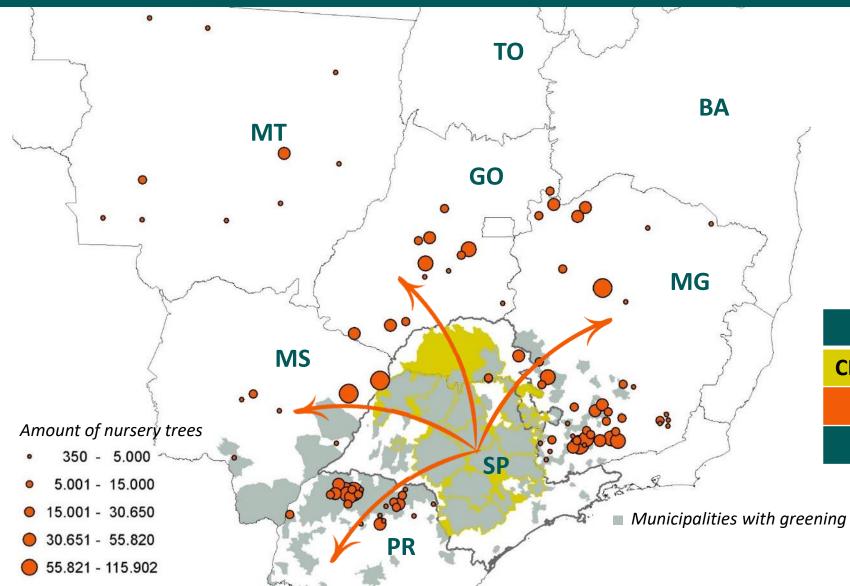






AREAS OUTSIDE THE BELT WITHOUT GREENING

ORANGE PLANTINGS IN 2022, LOCATED OUTSIDE THE CITRUS BELT, WITH NURSERY TREES ORIGINATING FROM SÃO PAULO



Trade-off It will lead to incresead costs: logistics, irrigation and worfoce attraction

REGION	NURSERY TREES	%
CITRUS BELT	15.363.102	91%
OUTSIDE	1.533.233	9%
TOTAL	16.896.335	100%

Source: CDA-SP

Munipalities that received more than 300 nursery trees



ADOPTING EFFICIENT CONTROL MEASURES









HEALTHY NURSERY TREES

PREVENTING PSYLLID ENTRY

MONITORING PSYLLID AND FLUSHING PSYLLID CONTROL THROUGH INSECTICIDE ROTATION





REGIONAL MONITORING AND COORDINATED CONTROL



FREQUENT INSPECTION AND IMMEDIATE REMOVAL OF DISEASED PLANTS



GROVE PLANNING

SEEKING MORE SUPPORT FROM FUNDECITRUS



From a sustainability perspective, WHY IS IT IMPORTANT TO MAINTAIN THE ORANGE PRODUCTION STABLE?



- 200,000 direct and indirect jobs

One job per 80 hectares

Orange creates 8 times more jobs than sugarcane per hectare

One job per 9 hectares





NATURE PRESERVATION

Same amount emitted by the city of São Paulo over the course of 8 years



Forests cover a total of 160,000 hectares

-133 million tons of CO2 eq. removed from the atmosphere

CO₂

0,

Thanks to Innocent Drinks for funding this research!



STABLE AND SECURE LANDSCAPES FOR WILDLIFE





KEEP TRACK OF THE SURVEY

- markestrat

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