

Sustainability Report 2019

SEED PRODUCTION

PanAmerican Seed®

Why Do We Care ?

- We are proud to say that we work together with nature and people to produce flower seeds in a sustainable way and in a cost effective manner.
- We care about how we use our resources and we are always looking for new techniques that can make us be more productive.
- We are constantly trying to produce more with less!
- Taking care of our people and the environment has always been our number one priority .
- We are proud to present this sustainability data for 2019. The data in this report is from our main production sites, Linda Vista Costa Rica, Floricultura Guatemala, Ball Horticulture Kunming and Semillas PanAmerican Chile.

MPS
driven by
sustainability



MPS

All PanAmerican Production Sites are Currently MPS Certified

| | |
|----------------------------|------------|
| Floricultura Guatemala | since 2002 |
| Ball Horticultural Kunming | since 2007 |
| Linda Vista Costa Rica | since 2009 |
| Semillas PanAmerican Chile | since 2009 |

Integrated Pest Management (IPM)

Our Main Strategy to Control Pests and Diseases

1

Chemical Sprays

Constantly revising:

- How much chemicals we use.
- What kind of chemicals we use
- When we use.
- How we use.

2

Beneficial Insects and Microbes

We are working with Biological control since 2011. Every year we increase our knowledge and expand its use. Biocontrol is today a critical part of our IPM program.

3

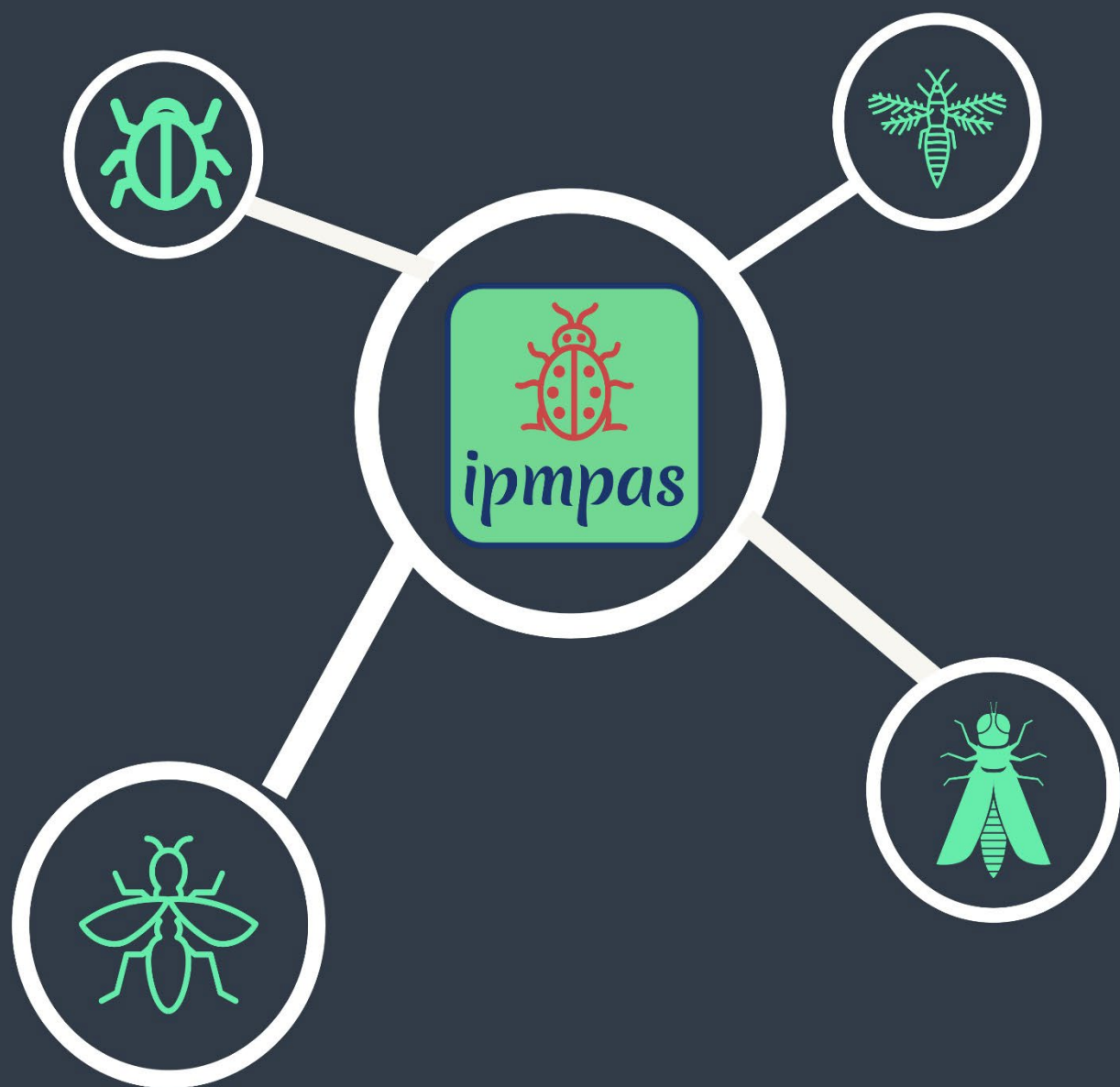
Education

- We believe that education is critical for the success of our IPM program.
- We have technical support from experts.
- We promote seminars and webinars.
- We created an IPM website that gives support and information on IPM and incentive communication to our growers.

4

Safety

- We believe the safety of our employees is our number one priority.
- Constant training and providing the appropriate personal protective equipment is always a main concern.
- Local rules and regulations are always followed.



**SEED PRODUCED
USING BIOCONTROL**

**800
MILLION**

8 MILLION
PREDATORS
RELEASED



474
MILLION
SEEDS

Produced
by
Bee Pollination



A large, stylized white number '4' is centered at the top of the left panel. The background of the entire left panel is a light green with a pattern of palm fronds.

REASONS TO USE COCO FIBER

1

100% organic

2

Recyclable

3

Renewable

4

Cost-effective

Growing Media

4,000 m³
of
coco fiber
used

**55 MILLION
LITERS OF
WATER SAVED**

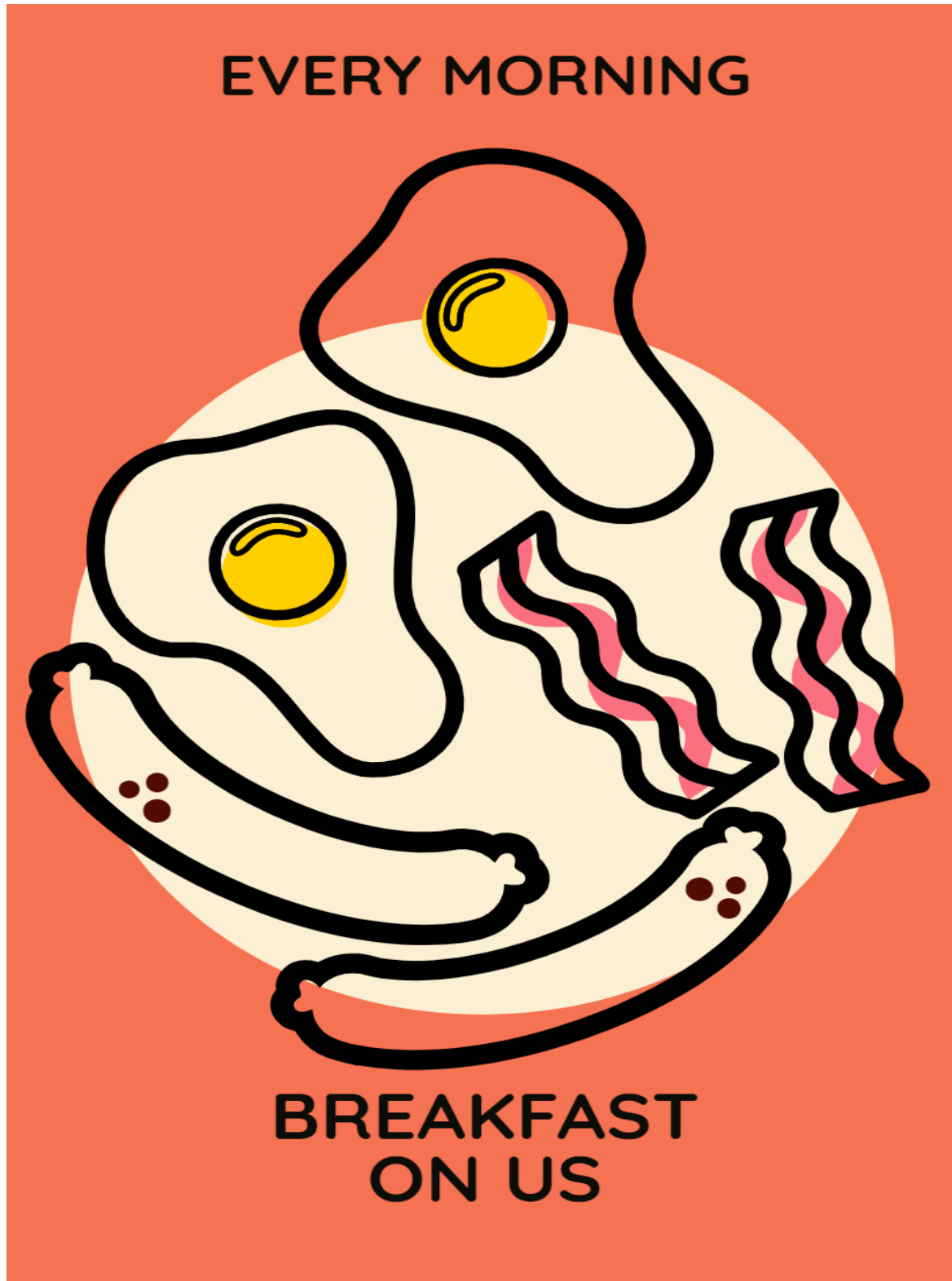
**NEW IRRIGATION
TECHNICS
MORE WATER
STORAGE**



A photograph of a forest path. The path is dark and appears wet, with sunlight reflecting off its surface. The path leads into a dense forest of tall, thin trees. Sunlight filters through the canopy, creating a hazy, golden glow. The trees have green foliage, and the ground is covered in fallen leaves and moss.

488

Trees Planted



47,000
Free Breakfast

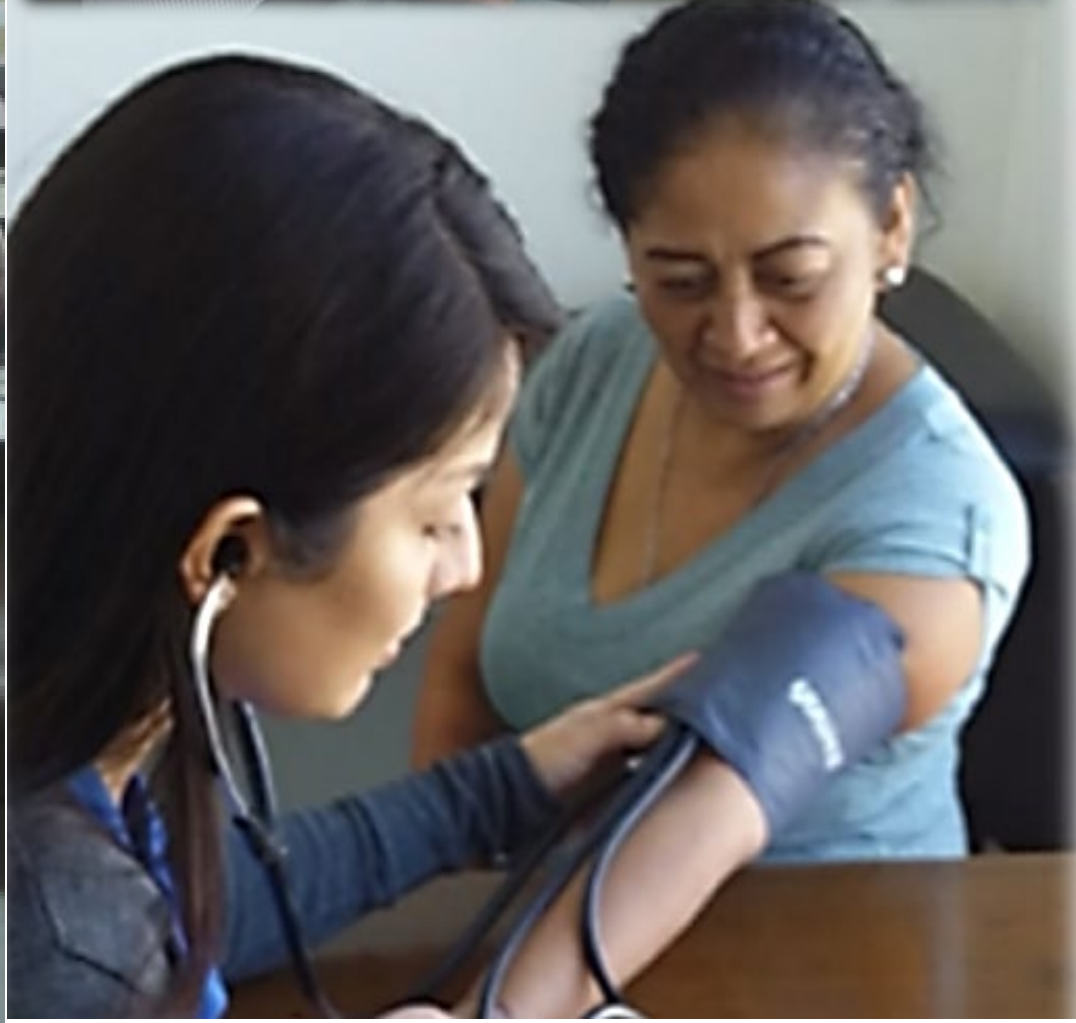




COMPLIMENTARY CHECKUPS

**5,070
EMPLOYEES
TREATED FOR FREE**

Vaccinations
Eye Exams
Dentistry
Blood Tests
HIV Talks





4,700
Employees
Attend Celebrations

2,090

Free
Food Baskets

- Christmas
- National Holidays
- Mother's Day
- Father's Day
- Kid's Day





Reduce
Reuse
Recycle



20 Tons
Metal



15 Tons
Plastic

3,331 Liters
Oil



Stop Using!

***600 Tons
Coal***

***3,800 liters
Bunker Oil***

650 People



Take Advantage of Discount Transportation



Educational Opportunities

THANK YOU!



PanAmerican Seed
2019