

## LA CRUZ HABITAT PROTECTION PROJECT

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www.ForestsForMonarchs.org



#### **MISSION**

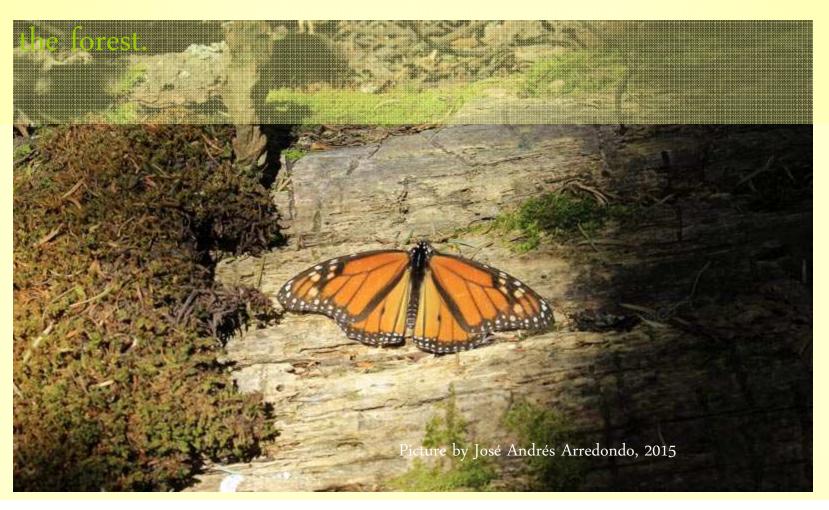
To protect the migratory
monarch butterfly and other
endemic species by reforesting
the land within the Monarch
Butterfly Biosphere Reserve in
Michoacán, Mexico.





#### **MISSION**

To promote sustainable forest management among the local landowners for their economic benefit and the conservation of



#### COMPONENTS OF FORESTS FOR MONARCHS

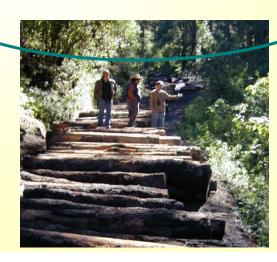


**Environmental Education** 

Forest Restoration



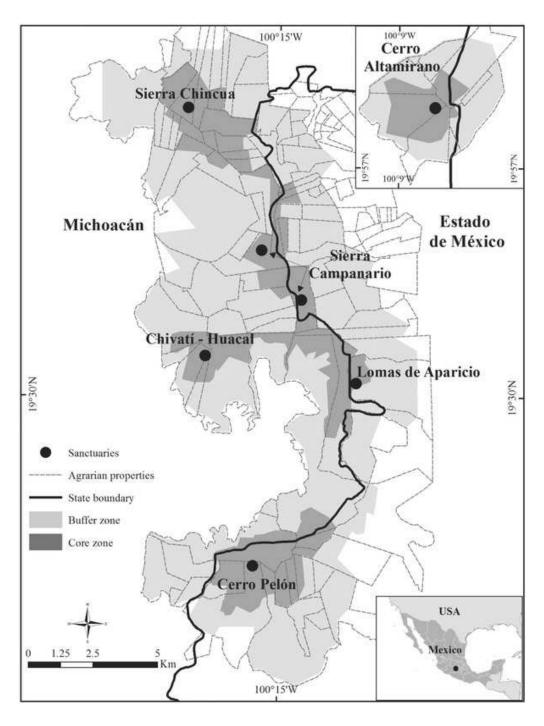
Sustainable Wood Harvest









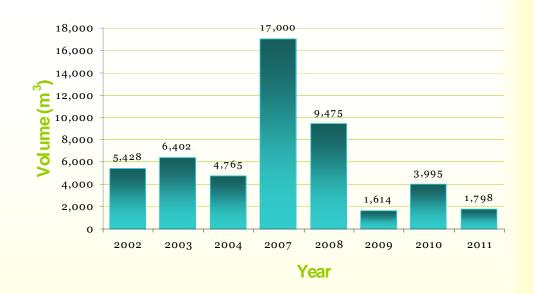


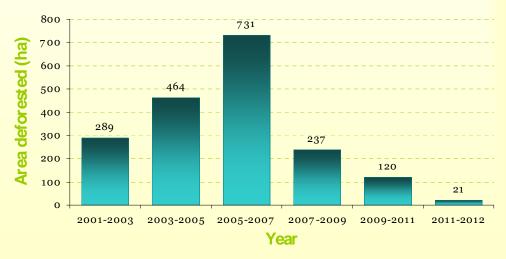
### MBBR history:

- •1980: First Decree as Wildlife and Refuge area. Logging was allowed most of the year.
- •1986: Five isolated areas were delimited. Special MBBR, delimiting the core zone (4,991 ha), and the buffer zone (11,619 ha)
- •2000: The actual MBBR: Buffer zone area is 42,707 ha, and core zone area is 13,552

# Solving an environmental problem

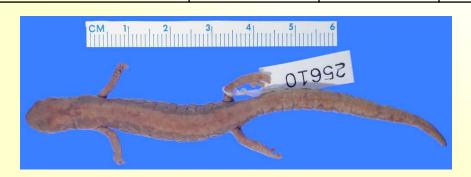
- High rates of annual deforestation within the MBBR
- Create unsuitable habitat for monarch hibernation and reproduction
- Cause habitat loss of endemic species
- Hydrology is disrupted
- Loss of Sequestered CO<sub>2</sub>
- Increased soil erosion





Data source: Vidal et. al., 2014

SCIENTIFIC NAME	COMMON NAME	IUCN CATEGORY	IUCN CRITERIA	SEMARNAT CATEGORY <sup>1</sup>	FORESTS FOR MONARCHS
Invertebrates					
Danaus plexippus	Monarch butterfly	Its annual migration is considered threatened		Subject to special protection	
Amphibians					
Ambystoma ordinarium	Michoacan Stream Salamander	Endangered	B1ab(iii)+2a b(iii)	Subject to special protection*	
Pseudoeurycea robertsi	Tlaconete de Roberts	Critically Endangered	B1ab(iii)	Threatened*	
Pseudoeurycea bellii	Bell's False Brook Salamander	Vulnerable	A2ace	Threatened*	
Mammals					
Nelsonia neotomodon	Diminutive Woodrat	Near Threatened	7	Subject to	Maria





#### Forest Restoration

- Germination of seeds
- Direct seeding to copper-treated styro-blocks

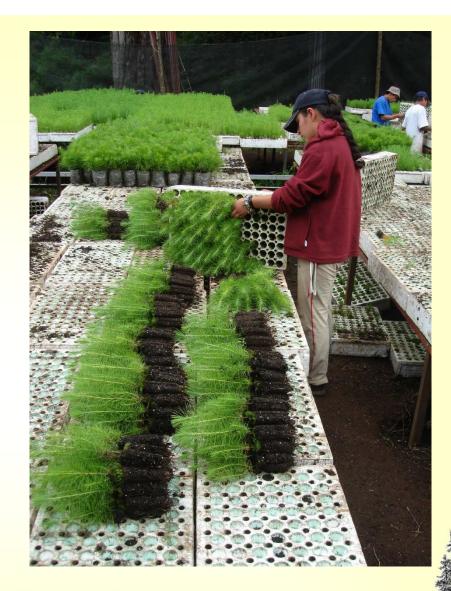




### Forest Restoration







Careful packing and transportation of native tree seedlings







We deliver trees to planting sites at the optimal planting time, and provide other logistical support



#### Education is Reforestation





The conservation of our forests is in the hands of our future generations.

Forests for Monarchs:

• Teaches local landowners to sustainable harvest restored forests on former agricultural land.

- Promotes environmental education among the local children and their families, and
- •Encourages the participation of higher education students at our reforested sites and our partner Nursery,





#### Technical assistance





To teach the local participants to maintain healthy trees in a healthy land.



The rate of development of trees is encouraging to local participants —up to 50 feet in height in 10 years

Local people set the example for their neighbors — Increasing the quality and value of land.

Site in El Rosario in 2000, two years after planting The same site in 2009

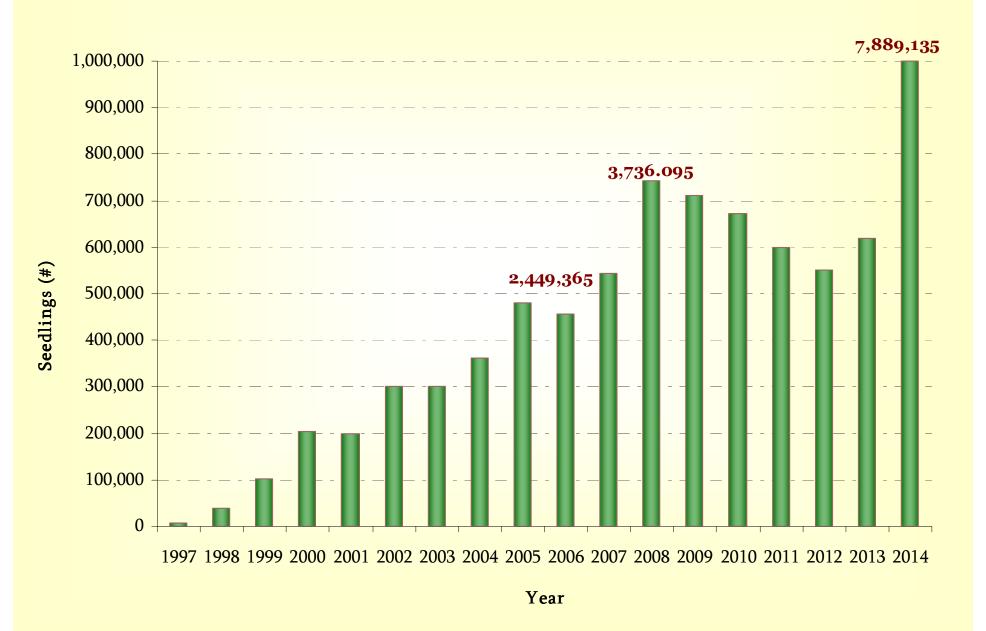






The participation of higher education students at our reforested sites and our partner Nursery is one of our priorities.

## Almost 8 million native seedlings planted







WHAT WE DO

**BENEFITS** 

**NEWS & MEDIA** 

WHO WE ARE

CONTACT US



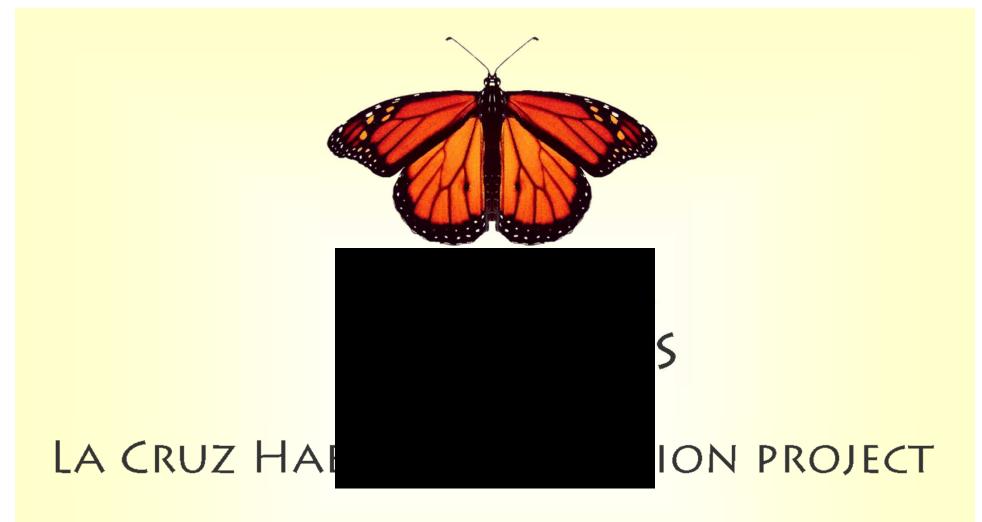
Forests for Monarchs is dedicated to protecting the monarch butterfly and other endemic species by reforesting the land surrounding the Monarch Butterfly Biosphere Reserve, and to promote sustainable forest management among the local landowners for their economic benefit and forest conservation.



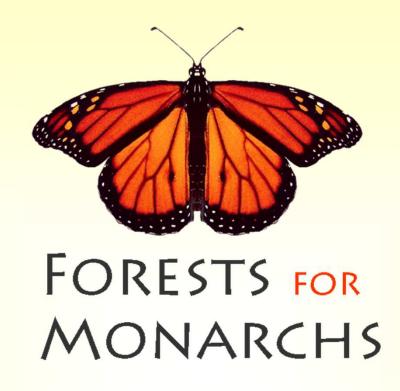








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