

SUPPLEMENTARY MATERIAL

Part 1

Semi-structured interview to identify ecosystem services, disservices and drivers of change for key stakeholders in the municipality of Coyaima

1. Socio-demographic characteristics

Date:_____ Name:_____ Age:_____
Gender:_____ Education:_____ Occupation:_____
Place of Birth:_____ Municipality of residence:_____ If
the answer is "Coyaima": where in Coyaima?_____
Time of residence in the municipality of
Coyaima:_____
Do you belong to an indigenous reservation?(Y/N)_____
Which one?_____

2. Perception of services and disservices of the municipality of Coyaima.

- What benefits do you obtain from nature in Coyaima for your life??
- Why did you identify these benefits?
- How do you use the benefits you mentioned before?
- What damages or losses do they get from nature?
- Why these damages affected you?
- What activities do you do to reduce these damages?

3. Identification and perception of possible drivers of change in the municipality of Coyaima.

- Which land cover classes are present in Coyaima?
- What activities or factors change the above-mentioned land cover classes?

Part 2

Ecosystem services, disservices and drivers of change identified by the interviewees in Coyaima (answers; no particular order).

Services	Disservices	Drivers of change
<ol style="list-style-type: none">1. Cultural belonging2. Agriculture3. Drinking water4. Livestock5. Food trade6. Climate regulation7. Traditional medicine8. Soil nutrients9. Oxygen production10. Pest animals11. Pet food12. Pig farming13. Poultry14. Sheep farming15. Shadow for the animals16. Tourism17. Conservation of fauna and flora18. Healthy environment19. Air quality20. Food production21. CO2 regulation22. Fish farming23. Keeping of pets24. Soil fertility25. Decrease in soil erosion	<ol style="list-style-type: none">1. Unstable weather2. High temperatures during the day3. Pests (animals or plants)4. Vector diseases5. Forest fires6. Gales7. Desertification8. Drought9. Floods10. Fear of dark areas	<ol style="list-style-type: none">1. Natural and anthropic fires2. Agricultural expansion3. Deforestation4. Over-exploitation of soils5. Accumulation of fertilizers6. Garbage disposal7. Water pollution8. Mining activities9. Rice cropping activities10. Urban expansion11. Soil erosion12. Lack of environmental education of people13. Lack of compliance in the realization of the Land Use Plan (POT)

Part 3. Survey used for assessing the ecosystem services of the municipality of Coyaima, Colombia

Name _____ Age (<18) (18-30) (31-45) (46-60) (>60) Gender F () M ()

Education: None () Preschool () Primary () Secondary () Professional () Technical () Other: _____

Occupation: Agriculture (), Services/commerce (), State (), Transportation (), Education (), Health (), Home (), other _____ Place of origin _____ Place where you live _____ Name of the *vereda* where you live in Coyaima _____ Time of living there (years): _____

Indigenous reservation () cabildo () Which one? _____

1. What benefits are offered to you by ecosystems in the municipality of Coyaima? Pick the two that are most important.

Air purification
Climate regulation
Cultural identity Biodiversity
Provision and purification of water
Economic support
Food production
Recreation / Ecotourism
Spiritual and / or religious
Keeping and obtaining pets
OTHER: _____

2. What damages or costs are occurring in the municipality of Coyaima? Pick the two that are most important to you.

Unsafety
Human diseases
Livestock / agricultural pests
Drought and floods
Fear of wildlife
Unstable weather
High temperatures
Pests of animals and plants
Fires
Gales
Fear and stress in dark areas
OTHER: _____

3. Which activities are causing damage to ecosystems in and

around the Municipality of Coysima. Pick the two most important ones.

Garbage and debris dumping
Selective logging
Farming
Cattle raising
Fires
Lack of education
Mining activity
Rice cropping activities
Soil erosion
OTHER: _____

4. Can you name 3 entities that regulate activities carried out in the municipality of Coyaima?

YES__ NO__ Which ones?

A: _____
B: _____
C: _____
Other: _____

5. Would you participate during your weekends in restoration, management or nature care activities in the municipality of Coyaima?

NO () YES ()
No: Why? _____

Yes: How many hours per month? _____

Yes: Which type of activities?:

Allocate part of your property to conservation ()
Plant trees and vegetation ()
Recover waterbodies ()
Construction of living fences ()
Agriculture without agrochemicals ()
Recycling ()
OTHER: _____

Would you participate in these activities with any of the entities that have a presence in the region (listed below)?

NO () YES ()
Why? _____

LIST OF ENTITIES

1. Autonomous region of Tolima (Cortolima)
2. Town Hall
3. Coordination of the ecological rural area (CARE)
4. Agency for rural development (ADR)
5. Colombian Agricultural Institute

Table S1. Map of Continental, Coastal and Marine Ecosystems of Colombia (MEC) and Cortolima land use land cover classes (LULC; ha and %) for the municipality of Coyaima (Cortolima, 2011; IDEAM et al., 2017).

LULC MEC	LULC Cortolima	Hectares	% of Coyaima surface
Lake River	Water bodies	1,909	2.9
Gallery forest and riparian zones Secondary vegetation	Forest and semi- natural areas	3,288	5
Open shrubland Dense shrubland Open areas with no vegetation Open grassland Dense grassland	Degraded areas	9,798	15
Rice Temporary crops	Agricultural areas	2,059	3
Pasture	Pasture areas	30,935	46
Artificial land	Artificial/Built areas	66	0.1
Mosaic of crops and pastures Mosaic of crops, pastures and natural spaces Mosaic of crops and natural spaces	Mosaic of crops, pastures and natural spaces	18,997	28

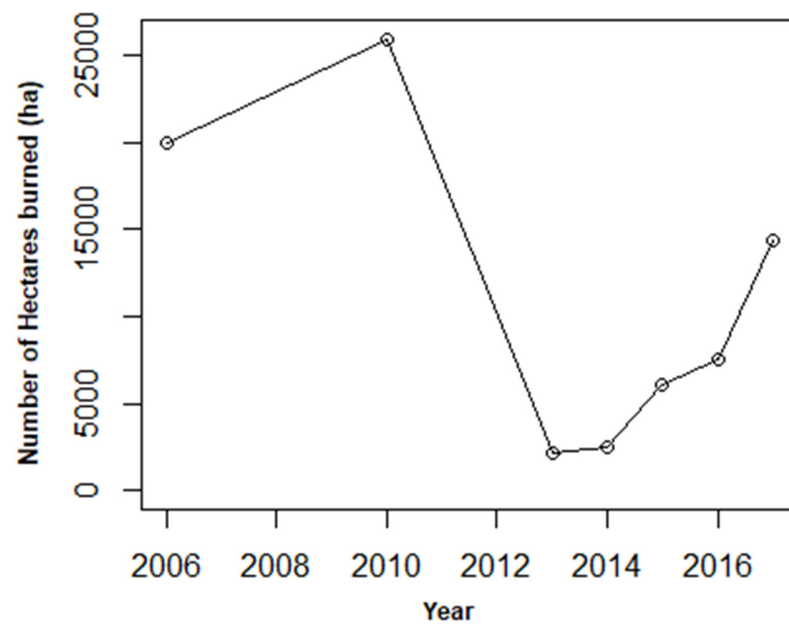


Figure S1. Burned area (ha) between years 2006-2017 in Coyaima, Colombia