Progress in Experimental Ecosystem Accounting in Mexico















Cuentas experimentales de los ecosistemas (SEEA-EEA) – México Proyecto Piloto





Background



 With support from UNSD and UNEP, Mexico participates as pilot country together with Bhutan, Chile, Indonesia, Vietnam, South Africa and Mauritius.



- Institutions from the Mexican environmental sector participate: Secretary of Environment and Natural Resources (SEMARNAT), National Commission for Knowledge and Use of Biodiversity (CONABIO), National Commission of Natural Protected Areas (CONANP), National Commission of Water (CONAGUA), National Institute of Ecology and Climate Change (INECC);
- As well as **international organizations** with projects in Mexico: German Agency for International Cooperation (GIZ) and the Biodiversity Finance Initiative (BIOFIN).



• Rolando Ocampo, Vice President of Geographic and Environmental Information of INEGI, was assigned as focal point in Mexico.



Work scheme

- After the National Plan, SEEA-EEA and the Thematic Technical Guides were used for the development of:
 - ✓ Ecosystem extent accounts (land cover).
 - ✓ Condition of ecosystem components accounts:
 - soil;
 - water;
 - biodiversity;
 - carbon.
 - Ecosystem services supply and use accounts (physical and monetary units).



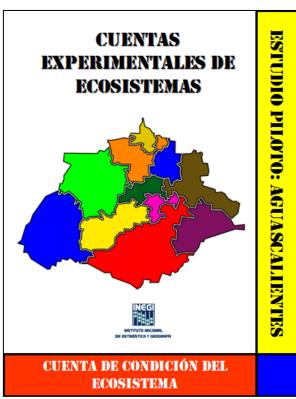
Summary of Mexico's progress

	AGS	COL	VER	СНІН	САМР	MOR	CHIS	вс	BCS	
1. Ecosystem extent accounts										
2. Ecosystem condition accounts										
2.1. Soil										
2.2. Water										
2.3. Carbon										
2.4. Biodiversity										Finat
3. Ecosystem services supply and use										First
accounts (physical units)										Semester
3.1. Soil										of 2016
3.2. Water										
3.3. Biodiversity										
3.4. Carbon										
4. Ecosystem services supply and use										
accounts (monetary units)										
4.1. Soil	Se	cond	t							Finished
4.2. Water		mes								
4.3. Biodiversity		201								In process
4.4. Carbon	O.									To do
	DE 651	STITUTO N	ACIONAL F GEOGRAF	in						To do

PROGRESS EXAMPLE: AGUASCALIENTES

CUENTAS EXPERIMENTALES DE ECOSISTEMAS

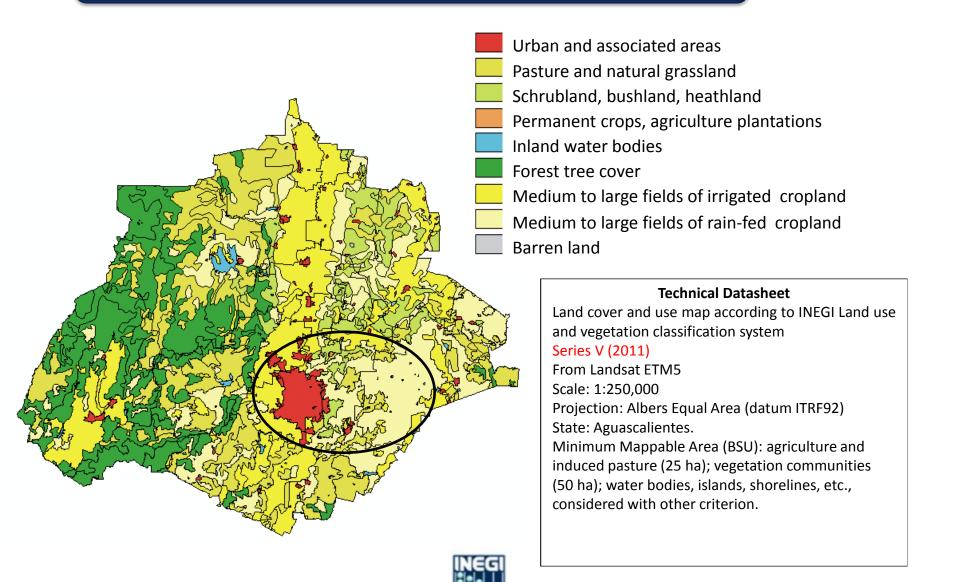








Extent Account





Cuentas experimentales de los ecosistemas (SEEA-EEA) - México

Inicio

Contenido















Cuentas experimentales de los ecosistemas (SEA-EEA) - México

Presentación

La División de Estadística de las Naciones Unidas (UNSD), ha seleccionado a México para participar como país piloto junto con Bután, Chile, Indonesia, Vietnam, Sudáfrica y Republica de Mauricio, en la implementación del System of Environmental-Economic Accounting. Experimental Ecosystem Accounting. (SEEA-EEA).

Los objetivos principales del proyecto son: la medición en unidades físicas y monetarias de los servicios y los activos de los ecosistemas que contribuyen con el bienestar de la sociedad, integrados en el esquema actual de la contabilidad nacional y ambiental.

En este sentido el INEGI, como punto focal, junto con SEMARNAT y a la par con diversas instituciones del sector ambiental de México, ha iniciado desde el año 2014 los trabajos relacionados con el proyecto. Con el propósito de revisar los avances alcanzados, así como para planear los siquientes pasos, se llevó a cabo una Primera Misión de UNSD a México (octubre, 2014); una Segunda Misión se ha programado para la semana del 13 al 17 de julio del año en curso.

En este contexto y como parte de los acuerdos del grupo de trabajo, se construyó la presente plataforma virtual, la cual constituye una herramienta de comunicación y coordinación entre los participantes del proyecto, con la finalidad de compartir en tiempo real todo tipo de materiales relacionados, incluyendo presentaciones, documentos, archivos de cálculo, información de foros internacionales relacionados, un directorio de contactos, entre otros elementos,

Se invita a los miembros del equipo a incrementar este acervo documental, además de dar sugerencias para mejorar este sitio de intercambio.

Próximos eventos

Segunda Misión de Naciones Unidas a México Implementación de las Cuentas Experimentales de Ecosistemas



- Reuniones bilaterales entre representantes de UNSD, el sector ambiental en México y otros organismos nacionales e internacionales.
- Taller técnico para la construcción de las cuentas de

Steps forward

- To continue with the development of the accounts for all entities and municipalities of the country.
 - 32 federal entities in the country
 - 2,456 municipalities
- •To evaluate the **minimum mappable level**. Each Federal Entity has different level of statistical and geographic information development.
- •Economic valuation → Ecosystem services supply and use accounts in monetary units

Uses of Information of SEEA-EEA Mexico





Strategic Plan for Biodiversity 2011-2020

"inclusion of biodiversity and ecosystem values in national accounts"

Sustainable development goals

Objectives 2, 6, 14 y 15 (the nine targets)

Aichi Targets. (Target 2)

"By 2020, at the latest, biodiversity values have been integrated into national and local development (...) planning processes and are being incorporated into national accounting, as appropriate, and reporting systems."



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Condition account (superficial water)

AGUASCALIENTES (municipality)

AGUASCALIENTES		dwater action	Surface water abstraction		
(abstraction)	2011 (m³)	2014 (m³)	2011 (m³)	2014 (m³)	
TOTAL	178,683,173	180,301,278	36,836,524	36,657,687	
Number of abstraction points	1,257	1,301	313	315	

2014

SUPERFICIAL WATER (AGUASCALIENTES)

(Percentage distribution of monitoring sites by water quality indicator)

Indicator	Excellent	Good	Acceptable	Polluted	Strongly polluted
DBO ₅			83.3%	16.7%	
DQO				91.7%	8.3%
SST				91.7%	8.3%



Source: CONAGUA, General Subdirection of Planning.

Supply and use account (water)

AGUASCALIENTES	Groundwate	r abstraction	Surface water abstraction		
(USES)	2011 (m³)	2014 (m³)	2011 (m³)	2014 (m³)	
Agricultural	53,099,040	49,028,510	31,346,921	31,368,084	
Agroindustrial	0	0	0	0	
Households	297,000	297,000	0	0	
Aquaculture	0	0	0	0	
Services	2,593,455	3,597,655	1,892,160	1,892,160	
Industrial	6,203,624	6,716,379	0	0	
Animal breeding and production	327,852	327,852	1,428,689	1,428,689	
Urban public	95,705,599	98,919,452	0	0	
Multiple	20,456,603	21,414,430	2,168,754	1,968,754	
Hydroelectric developments	0	0	0	0	
Trade	0	0	0	0	
Others	0	0	0	0	
Thermoelectric plants	0	0	0	0	
TOTAL	178,683,173	180,301,278	36,836,524	36,657,687	
Number of abstraction points	1,257	1,301	313	315	

Sustainable Development Goals and Ecosystem Accounts

Goal	Target	Description
2. Zero	2.4	By 2030 implement resilient agricultural practices that increase
Hunger		productivity and production, that help maintain ecosystems
6. Clean	6.6	By 2020, protect and restore water-related ecosystems
water and		
sanitation		
14. Life	14.2	By 2020, sustainably manage and protect marine and coastal
below water		ecosystems



Sustainable Development Goals and Ecosystem Accounts

Objetivo	Meta	Descripción
15. Life on	15.1	By 2020, ensure the conservation, restoration and sustainable use of
land		terrestrial and inland freshwater ecosystems and their services
	15.2	By 2020, promote the implementation of sustainable management of all types of forests
	15.3	By 2030, combat desertification, restore degraded land and soil
	15.4	By 2030, ensure the conservation of mountain ecosystems
15.5 15.6	Take urgent and significant action to reduce the degradation of natural habitats	
	Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources	
	15.7	Take urgent action to end poaching and trafficking of protected species of flora and fauna
15.8	By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species	
	15.9	By 2020, integrate ecosystem and biodiversity values into national and local planning