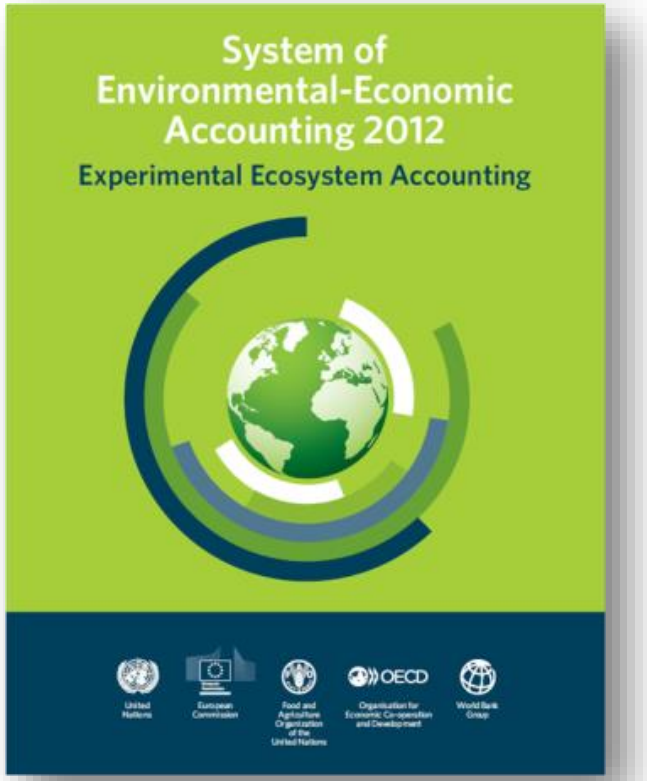
Experimental Ecosystem Accounting (SEEA-EEA) – Mexico

Pilot project



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Background

UNSD has promoted an approach with **INEGI** in order to establish the first working scheme about **Experimental Ecosystem Accounting (SEEA-EEA)**, which measures the contribution of **ecosystem services** to the economy and other human activities.

Why Mexico?

SEMARNAT
SECRETARÍA DE MEDIO AMBIENTE Y RECURSOS NATURALES

CONABIO
COMISIÓN NACIONAL PARA EL CONOCIMIENTO Y USO DE LA BIODIVERSIDAD

CONANP
COMISIÓN NACIONAL DE ÁREAS NATURALES PROTEGIDAS

CONAGUA
COMISIÓN NACIONAL DEL AGUA

INECC
INSTITUTO NACIONAL DE ECOLOGÍA Y CAMBIO CLIMÁTICO

CONAFOR
COMISIÓN NACIONAL FORESTAL

cooperación alemana
DEUTSCHE ZUSAMMENARBEIT

Implementada por
giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

BIOFIN
Biodiversity Finance Initiative

Aims of the mexican participation

To teste the application of SEEA-EEA

To collect experiences from Mexico and share it with other countries

Based on this, the Handbook will be updated

1st. Stage. 2014-2016.

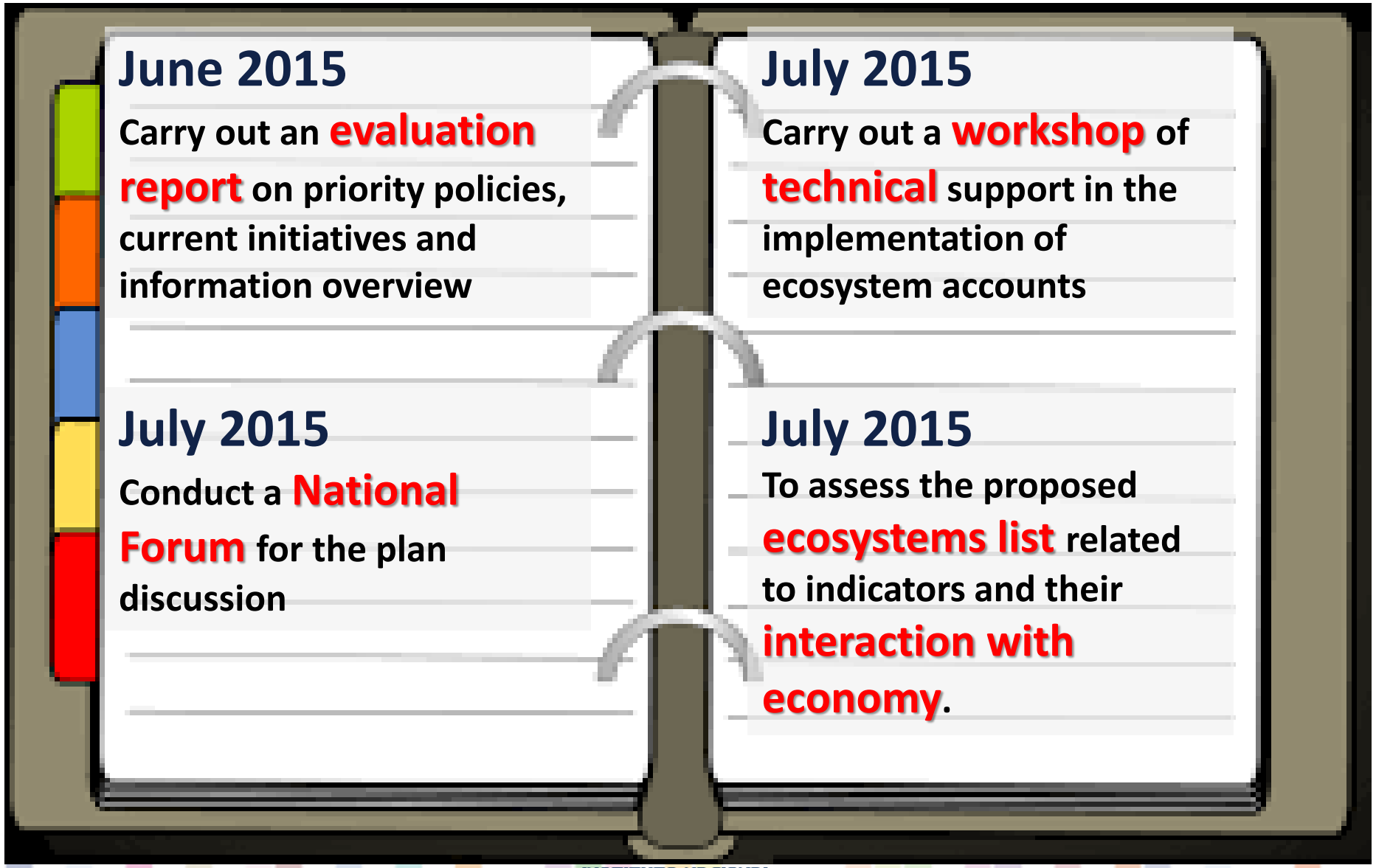
Two missions from UNSD to Mexico

Setting a **National Plan, wich is linked to ANCA Project**

2nd. Stage. 2017-2019.

Implementation of the accounts at countries

Main items at National Plan



June 2015

Carry out an **evaluation report** on priority policies, current initiatives and information overview

July 2015

Conduct a **National Forum** for the plan discussion

July 2015

Carry out a **workshop** of **technical** support in the implementation of ecosystem accounts

July 2015

To assess the proposed **ecosystems list** related to indicators and their **interaction with economy**.

Commitments

- *Due to **National Plan**, and using **SEEA-EEA** as well as the **Temathic Technical Guide** in developing:*
  - ✓ *Ecosystem **extensions** accounts (**land cover**).*
  - ✓ ***Condition** accounts of **ecosystem components**:*
    - ***land**;*
    - ***water**;*
    - ***biodiversity**;*
    - ***carbon**.*
  - ✓ *Ecosystem services supply and use tables accounts (**physical and monetary terms**).*

Main objectives of SEEA-EEA

To measurement the ecosystem **assets**

Physical terms

To measurement the ecosystem **services**

Physical terms

To estimate the **economic value** of the ecosystem services

To incorporate the information to SNA

Generate economic and hybrid indicators

Accounts included into SEEA-EEA

EXTENTION ACCOUNT	CONDITION ACCOUNT				SUPPLY AND USE TABLES	ECONOMIC VALUATION
	Ecosystem components					
	Land	Water	Biodiversity	Carbon		
•Extension	•Erosion	•Water quality	•Species abundance	•Carbon in soil	•Supply and use tables	•Land
•Changes in land cover and land use	•Soil types	•Extraction	•Threatened species			•Water
		•Aquifer condition (over/sub exploitation)	•Genetic diversity			•Vegetation
						•Biodiversity
						•Carbon

NATIONAL PLAN: Detail of obtained results

PRIORITY ACCOUNTS

- Ecosystem **assets**
- **Water** accounts
- **Supply and use** table for food security and water

CASE STUDIES

- Human **dependence** on ecosystems

FEASIBILITY STUDIES

- **Carbon** accounts
- **Condition** accounts
- **Extended supply and use** tables

ECOSYSTEM ASSETS

Changes in land **cover** and land **use** tables

- 32 states

WATER ACCOUNTS

- Water **quality**
  - National and 11 municipalities of Aguascalientes
  - DBO, DQO and SST
- **Extraction**
  - 653 aquifers
- Aquifers **condition** (over/sub exploitation)
  - 653 aquifers

SUPPLY AND USE TABLES

- **Water** accounts
  - National
  - Aguascalientes
  - 11 municipalities of Aguascalientes

NATIONAL PLAN: Detail of obtained results

PRIORITY ACCOUNTS

- Ecosystem **assets**
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- **Supply and use** table for food security and water

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FEASIBILITY STUDIES

- **Carbon** accounts
- **Condition** accounts
- **Extended supply and use** tables

Human dependence of ecosystems

- SUT **Agriculture (Ha)**
  - Cultivated area, harvested, yield per hectare
  - STATE AND MUNICIPALITIE: Aguascalientes, Colima and Veracruz
- SUT **Raising (Ha)**
  - Cattle standing, meat, milk and wax
- SUT **Forestry (Ha)**

NATIONAL PLAN: Detail of obtained results

PRIORITY ACCOUNTS

- Ecosystem **assets**
- **Water** accounts
- **Supply and use** table for food security and water

CASE STUDIES

- Human **dependence** on ecosystems

FEASIBILITY STUDIES

- **Carbon** accounts
- **Condition** accounts
- **Extended supply and use** tables

Carbon accounts

- Carbon in **soil**
  - National
  - State and Municipal: Aguascalientes, Chihuahua and Yucatán

Condition account

- **Soil**: Erosioned area and soil types
  - Aguascalientes, Colima, Veracruz and Yucatán
- **Biodiversity**: Abundance and threatened species
  - National

Extended supply and use tables

Changes in land cover **matrix**

- 32 States

NATIONAL PLAN: Detail of obtained results

PRIORITY ACCOUNTS

- Ecosystem **assets**
- **Water** accounts
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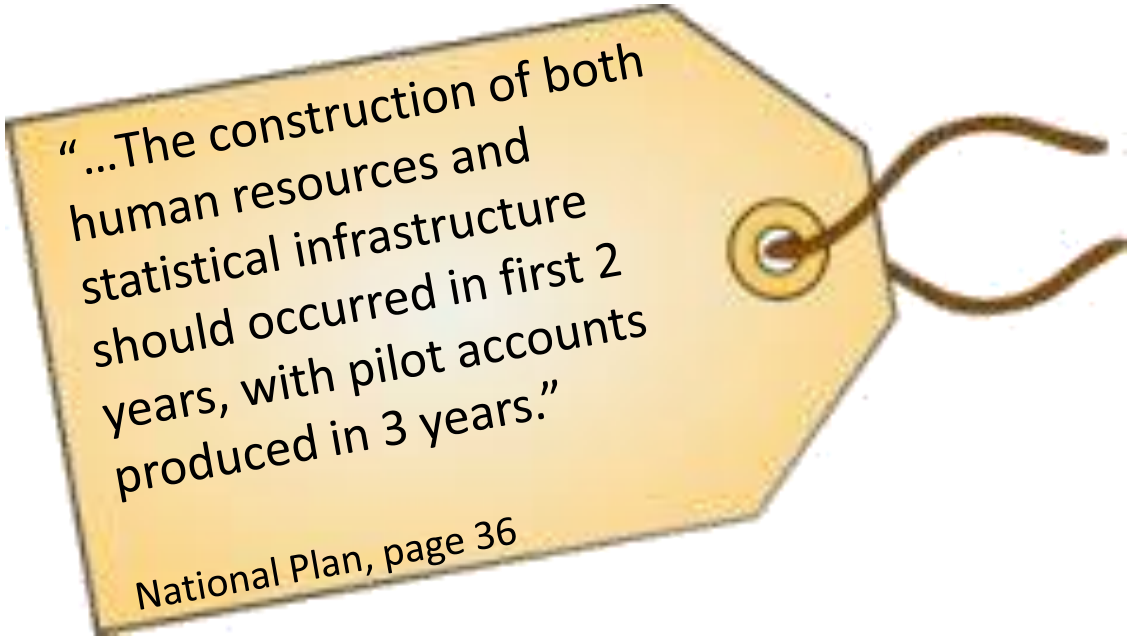

NATIONAL PLAN: Detail of obtained results

PRIORITY ACCOUNTS

- Ecosystem **assets**
- **Water** accounts
- **Supply and use** table for food security and water

CASE STUDI

- Human **dep**

FEASIBILITY STUDIES

- **Carbon** accounts
- **Condition** accounts
- **Extended supply and use** tables

5 national technical meetings in 2015

6 national technical meetings in 2016

Experiences in the application of SEEA-EEA

- ✓ The project is strengthened by using vector format (polygons).
- ✓ The use of homogenized cartography (Albers Equal Area ITRF92) allows the comparability in space and time.
- ✓ It is considered that the use of municipality as minimum unit of study is suitable than LCEU (Land Cover / Ecosystem Unit)
- ✓ A tutorial was written for development the extension accounts based on Digital Map of Mexico "Mr. Pancho"

Mapa Digital de México

ITRF92 (International Terrestrial Reference Framework)

Commitments of Mexico in the international agenda

- **Strategic Plan for Biodiversity 2011-2020**

  "To incorporate the **biodiversity value** in **national accounts**"

- **Aichi Targets. (Target 2)**

"For 2020, as a deadline, the **biodiversity values will has to been integrated** into development planning strategies and processes (...) and will being integrated into **systems of national accounts**, as appropriate."

Commitments of Mexico in the international agenda

- **Sustainable Development Goals and ecosystem accounting**
  - Ensure the conservation, restoration and sustainable use of terrestrial ecosystems
  - Promote sustainable management of all types of forest
  - Combating desertification, rehabilitation degraded lands and soils
  - Take urgent and significant measures to reduce natural habitats degradation
  - …

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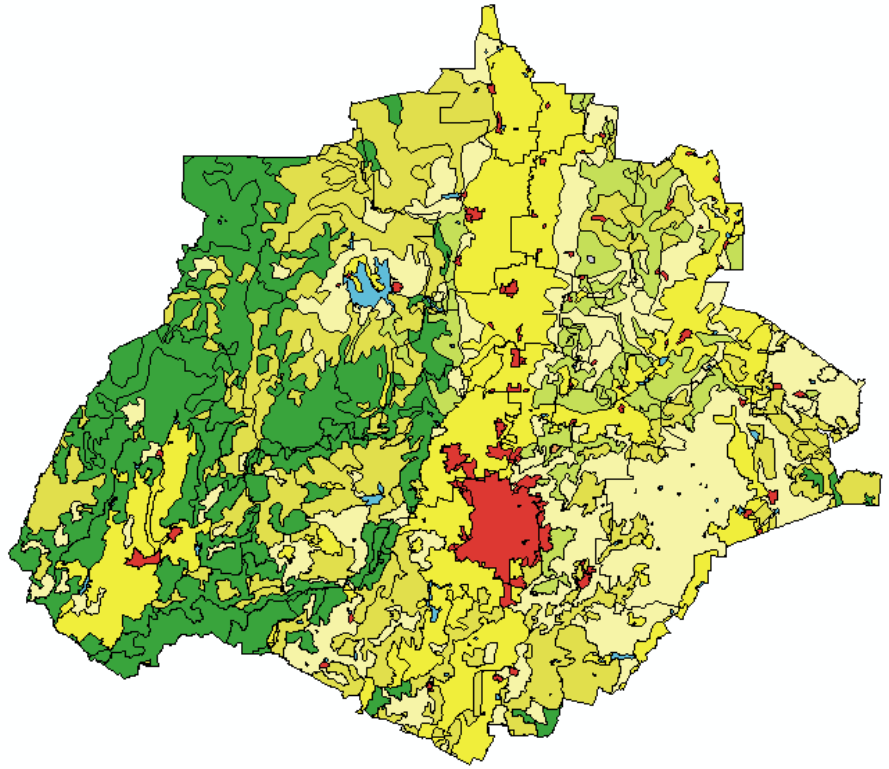
Ecosystem extension accounts:
Example Aguascalientes

11 Municipalities

9 Types of land use and vegetation

- Áreas urbanas y asociadas desarrolladas
- Pasturas y pastizales naturales
- Matorrales, zonas de arbustos, brezales
- Cultivos permanentes, plantaciones agrícolas
- Cuerpos de agua continentales
- Cobertura forestal
- Campos medianos a grandes, tierra de cultivo herbácea irrigada
- Campos medianos a grandes, tierra de cultivo herbácea alimentada por lluvia
- Tierra estéril



1.2 Area data by type of soil / ecosystem cover unit (SEEA-EEA classification): Example Aguascalientes (Municipality)

Clasificación SEEA	SERIE III Km² por LCEU	SERIE V Km² por LCEU
Áreas urbanas y asociadas desarrolladas	80.2	119.48
Campos medianos a grandes, tierra de cultivo herbácea alimentada por lluvia	277.12	29.25
Campos medianos a grandes, tierra de cultivo herbácea irrigada	301.81	301.78
Cultivos permanentes, plantaciones agrícolas	0.76	0.76
Asociaciones y mosaicos agrícolas	0	0
Pasturas y pastizales naturales	380.44	323.21
Cobertura forestal	58.59	56.61
Matorrales, zonas de arbustos, brezales	72.13	68.66
Áreas con escasa vegetación	0	0
Mosaicos y asociaciones de vegetación natural	0	0
Tierra estéril	0	0
Nieve permanente y glaciares	0	0
Humedales abiertos	0	0
Cuerpos de agua continentales	7.05	8.35
Cuerpos de agua costera	0	0
Mar	0	0
Total	***1,178.10***	***1,178.10***

1.3. Tables of changes of use and land cover: Example Aguascalientes (Municipality)

	Áreas urbanas y asociadas	Cultivos	Pastizales	Cobertura forestal	Matorrales	Tierra estéril	Cuerpos de agua cont.	Total
Stock de apertura de recursos (serie III)	80.2	579.69	380.44	58.59	72.13	0	7.05	**1178.10**
Adiciones a stock								
Expansión controlada	39.28	22.1						
Expansión natural								
Revaluación a la alta								
Adiciones totales a stock	39.28	22.1					1.3	
Reducciones en stock								
Regresión controlada								
Regresión natural								
Revaluación a la baja								
Reducciones totales en stock			57.23	1.98	3.47			
Stock de cierre de recursos (serie V)	**119.48**	**601.79**	**323.21**	**56.61**	**68.66**	**0**	**8.35**	**1178.10**

1.3 Tables of changes of use and land cover: Example Aguascalientes

	Áreas urbanas y asociadas	Cultivos	Pastizales	Cobertura forestal	Matorrales	Tierra estéril	Cuerpos de agua cont.	Total
Stock de apertura de recursos (serie III)	80.2	579.69	380.44	58.59	72.13	0	7.05	**1178.10**
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Stock de cierre de recursos (serie V)	**119.48**	**601.79**	**323.21**	**56.61**	**68.66**	**0**	**8.35**	**1178.10**

1.4. Matrix of changes in land cover: Example Campeche

Serie V / Serie III	A	B	C	D	E	F	G	H	I	J	K	Total	USV3_SEEA (sin ajustes)	Ajustes a la medición de Serie III a Serie V		USV3_SEEA (ajustado)
														K	L	
Superficie sin cambio																
A	180.0	0.3	0.4	1.3	0.0	2.0	0.2	0.0	0.0	0.0	0.0	**184.3**	184.3			184.3
B	8.3	1,187.0	95.3	55.9	2.8	323.6	0.0	0.0	2.4	0.2	0.0	**1,675.4**	1,675.4			1,675.4
C	4.8	25.8	518.3	22.9	1.3	79.1	0.0	0.0	0.3	0.0	0.0	**652.5**	652.5			652.5
D	23.1	86.8	34.6	4,823.2	19.8	1,451.3	0.0	0.0	67.1	6.8	0.0	**6,512.8**	6,512.8		0.2	6,512.9
E	3.8	20.9	5.3	44.9	997.4	279.7	0.0	0.0	13.8	0.0	0.0	**1,365.8**	1,365.8			1,365.8
F	38.8	609.7	155.6	1,869.9	73.4	37,510.6	0.0	0.3	219.3	2.5	0.0	**40,480.0**	40,480.0		2.4	40,482.4
G	0.0	0.0	0.0	0.0	0.0	0.0	248.1	0.0	12.3	0.0	3.2	**263.5**	263.5			263.5
H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	**2.4**	2.4			2.4
I	0.5	0.0	0.9	97.8	0.6	41.8	34.3	0.0	3,981.0	0.0	0.0	**4,157.0**	4,157.0			4,157.0
J	0.0	0.2	0.2	2.1	0.0	0.7	0.0	0.0	0.2	200.2	0.0	**203.7**	203.7			203.7
K	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	**4.9**	4.9			2,015.8
Total	**259.5**	**1,930.6**	**810.5**	**6,918.1**	**1,095.4**	**39,688.8**	**282.6**	**2.7**	**4,296.3**	**209.7**	**8.1**	**55,502.3**	**55,502.3**			
USV5_SEEA (sin ajustes)	259.5	1,930.6	810.5	6,918.1	1,095.4	39,688.8	282.6	2.7	4,296.3	209.7	2,019.0	**57,513.2**				
Ajustes a la medición de Serie III a Serie V K														2,010.9		
Ajustes a la medición de Serie III a Serie V L					0.2	2.3									**2.5**	
USV5_SEEA (ajustado)	259.5	1,930.6	810.5	6,918.1	1,095.6	39,691.2	282.6	2.7	4,296.3	209.7	2,019.0					**57,515.7**

Discrepancia de la información geográfica

A: Áreas urbanas y asociadas desarrolladas
B: Campos medianos a grandes, tierra de cultivo herbácea alimentada por lluvia
C: Campos medianos a grandes, tierra de cultivo herbácea irrigada
D: Cultivos permanentes, plantaciones agrícolas
E: Pasturas y pastizales naturales
F: Cobertura forestal
G: Áreas con escasa vegetación
H: Tierra estéril
I: Humedales abiertos
J: Cuerpos de agua continentales
K: Cuerpos de agua costera
L: País extranjero

Nota: La suma de los parciales puede no coincidir con los totales debido al redondeo de las cifras.

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2.1.1 Area eroded by SEEA-EEA classification and types of erosion (Erosion): Example Aguascalientes (Municipality)

RESULTADOS ESTATALES	Extensión del ecosistema	UNIDADES DE EROSIÓN DEL SUELO (%)*															SUELO ESTABLE (km2)	UNIDADES GEOMOR-FOLÓGICAS (%)	UNIDADES COMPLEMENTARIAS (%)				Total (%)
Tipos de LCEU**	Área Km^2	HÍDRICA LAMINAR				HÍDRICA SURCOS				HÍDRICA CÁRCAVAS				EÓLICA			ANTRÓPICA			AH	H2O	ISLAS	ZU	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3								
Tierra de cultivo de temporal	**299.25**	4.95	3.10	7.32		0.84	0.79	0.61		10.98							0.06	66.45	3.57	1.30	0.00		0.01	**100.00**
Tierra de cultivo irrigada	**301.78**	8.92	4.70	6.53		0.18	0.01	0.16		3.16	0.51	0.22					0.04	65.78	7.47	2.27	0.00		0.05	**100.00**
Cultivos permanentes	**0.76**						4.03											95.97						**100.00**
Pasturas y pastizales naturales	**323.21**	16.51	14.54	20.76	0.18	0.05	1.10	1.48		20.72							0.32	21.28	2.81	0.23	0.00		0.00	**100.00**
Cobertura forestal	**56.61**	1.30	17.26	2.40			1.30	0.22		65.86								11.07	0.60					**100.00**
Matorrales, zonas de arbustos, brezales	**68.66**	23.29	25.60			0.94												49.32	0.14	0.69	0.00		0.02	**100.00**
Tierra Estéril	**0.00**																							
Total	**1,050.27**	**10.65**	**9.31**	**10.48**	**0.06**	**0.37**	**0.64**	**0.69**		**13.96**	**0.15**	**0.06**					**0.13**	**48.27**	**4.07**	**1.14**	**0.00**		**0.02**	**100.00**

2.1.2 Types of soil by classification SEEA-EEA: Example Aguascalientes (Municipality)

Tipos de LCEU**	Extensión del ecosistema	TIPOS DE SUELO * Participación (%)										TOTAL
	Área Km2	CL	CM	DU	FL	KS	LP	LV	PH	PL	RG	
Tierra de cultivo de temporal	299.25	0.00	0.36	22.69	1.25	0.04	1.26	0.00	62.25	1.23	10.93	100.00
Tierra de cultivo irrigada	301.78	0.11	0.49	5.75	0.62	1.85	0.95	0.00	78.54	7.07	4.63	100.00
Cultivos permanentes	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	100.00
Pasturas y pastizales naturales	323.21	0.00	0.00	3.34	0.85	0.00	4.75	0.00	81.60	0.02	9.44	100.00
Cobertura forestal	56.61	0.00	0.51	2.05	0.00	0.00	42.59	0.00	48.88	0.00	5.97	100.00
Matorrales, zonas de arbustos, brezales	68.66	0.80	0.00	0.00	0.00	25.13	0.26	0.00	73.72	0.00	0.09	100.00
Discrepancia***	0.04	0.02	0.39	19.09	1.12	0.42	1.19	0.00	65.70	2.47	9.59	100.00
Total	1,050.31	0.08	0.27	9.26	0.80	2.18	4.41	0.00	72.94	2.39	7.68	100.00

2.2.2-4. Water quality (surface) extracted by BOD5, COD and TSS

2011					
Indicador	AGUA SUPERFICIAL (Distribución porcentual de sitios de monitoreo por indicador de calidad del agua)				
	Excelente	Buena	Aceptable	Contaminada	Fuertemente contaminada
DBO_5	--	--	71.40%	28.60%	--
DQO	--	--	--	100%	--
SST	--	--	--	100%	--
	2014				
Indicador	AGUA SUPERFICIAL (Distribución porcentual de sitios de monitoreo por indicador de calidad del agua)				
	Excelente	Buena	Aceptable	Contaminada	Fuertemente contaminada
DBO_5	--	--	83.30%	16.70%	--
DQO	--	--	--	91.70%	8.30%
SST	--	--	--	91.70%	8.30%

2.2.1. Data extraction of groundwater and surface water by municipality: Example Aguascalientes (municipality)

AGUASCALIENTES (extracción)	Aprovechamientos subterráneos		Aprovechamientos superficiales	
	2011 (m^3)	2014 (m^3)	2011 (m^3)	2014 (m^3)
TOTAL	178,683,173	180,301,278	36,836,524	36,657,687
Número de aprovechamientos	1,257	1,301	313	315

2.5 Aquifer status (Exploited over / under)

Condición del agua subterránea. Aguascalientes (2014)					
Acuífero	Área (km^2)	Extracción (hm^3)	Recarga (hm^3)	Relación Extracción / Recarga	Condición Geohidrológica
Venadero	111	2	2	1.11	Sobreexplotado
Valle de Chicalote	725	48	35	1.37	Sobreexplotado
Valle de Calvillo	1,048	40	25	1.60	Sobreexplotado
Valle de Aguascalientes	3,129	430	235	1.83	Sobreexplotado
El Llano	555	24	15	1.60	Sobreexplotado

2.4.1. Abundance of species: Example Aguascalientes (State)

ESPECIE	NOMBRE COMÚN	ABUNDANCIA				ZONA
		RARA	POCO COMÚN	COMÚN	ABUNDANTE	ECOGEOGRÁFICA
Didelphis virginiana	Tlacuache o zarigüeya				X	TODAS
Cryptotis parva	Musaraña	X				FRÍA
Notiosorex crawfordi	Musaraña	X				FRÍA
Sorex saussurei	Musaraña	X				FRÍA
Dasypus novemcinctus	Armadillo	X				MUE, VAG, SAB
Balantiopteryx plicata	Murciélago sacóptero		X			VAG
Mormoops megalophylla	Murciélago bigotudo de cara plegada		X			HUA, CAL
Desmodus rotundus	Murciélago vampiro			X		FRÍA, PINA, MONT LAU, HUA
Choeronycteris mexicana	Murciélago nectarívoro	X				VAG, HUA
Glossophaga soricina	Murciélago sirocotero		X			VAG
Leptonycteris curasoae	Murciélago nectarívoro		X			PINA, LAU, HUA

2.4.2. Endangered Species(NOM-059): Example Aguascalientes (State)

Taxa	Familia	Género	Especie	Nombre común	NOM-059	Endémica	Criterios
Anfibios	Plethodontidae	Pseudoeurycea	bellii	Tlaconete pinto	A	Sí	2
Anfibios	Hylidae	Smilisca	dentata	Rana de madriguera	A	Sí	1,2
Reptiles	Kinosternidae	Kinosternon	hirtipes	Tortuga casquito	Pr	No	2
Aves	Accipitridae	Aquila	chrysaetos	Águila real	A	No	1,2,3,4
Aves	Anatidae	Anas	platyrhynchos diazi	Pato mexicano	A	Sí	2,3
Aves	Psittacidae	Ara	militaris	Guacamaya verde	P	No	1,2,3,4
Aves	Falconidae	Falco	mexicanus	Halcón mexicano	A	No	2
Aves	Strigidae	Strix	occidentalis	Búho moteado	A	No	2

2.3.1.1. Carbon in soils: Aguascalientes (Municipality)

AGUASCALIENTES	Serie III*		Serie V**	
	Extensión del ecosistema	BIOCARBONO (toneladas)	Extensión del ecosistema	BIOCARBONO (toneladas)
Tipos de LCEU	Área Km^2	Suelo	Área Km^2	Suelo
Áreas urbanas y asociadas desarrolladas	80.20	0.00	119.48	0.00
Tierra de cultivo de temporal	277.12	836,569.18	299.25	903,357.96
Tierra de cultivo irrigada	301.81	793,847.45	301.78	794,495.21
Cultivos permanentes	0.76	2,783.17	0.76	2,783.13
Pasturas y pastizales naturales	380.44	931,519.94	323.21	784,194.32
Cobertura forestal	58.59	179,863.55	56.61	173,982.52
Matorrales, zonas de arbustos, brezales	72.13	179,102.12	68.66	169,979.79
Tierra estéril				
Total	1,171.05	2,923,685.42	1169.75	2,828,792.93

Hybrid supply and use tables:
Example municipality El Llano

Cuadro híbrido de Producción Agrícola en el Municipio El Llano. 2011.							
Producto	Superficie sembrada (Ha)	Superficie cosechada (Ha)	Producción (Ton)	Rendimiento (Ton/Ha)	Producción (Miles de pesos)	Consumo intermedio (Miles de pesos)	Valor agregado bruto (Miles de pesos)
Agave	93	25	175	7	754	275	479
Alfalfa Verde	213	213	20,661	97	16,546	6,036	10,510
Avena Forrajera	673	143	3,319	23	1,267	462	805
Cebolla	4	4	80	20	259	94	164
Chile Verde	36	36	510	14	3,291	1,201	2,090
Frijol	3,145	30	63	2	855	312	543
Maíz Forrajero	9,597	277	16,305	59	10,169	3,710	6,459
Maíz Grano	7,302	208	1,414	7	4,602	1,679	2,923
Manzana	5	5	27	5	160	58	102
Nopal Forrajero	93	89	2,225	25	480	175	305
Nuez	2	2	3	1	102	37	65
Pastos	964	769	4,220	5	1,294	472	822
Tomate Verde	5	5	95	19	512	187	325
Tuna	58	58	104	2	225	82	143
Uva	96	93	751	8	4,859	1,773	3,086
Total	22,286	1,957	49,953	26	45,375	16,554	28,822

Hybrid supply and use tables :
Example municipality El Llano

Cuadro híbrido de Producción Agrícola en el Municipio El Llano. 2014.							
Producto	Superficie sembrada (Ha)	Superficie cosechada (Ha)	Producción (Ton)	Rendimiento (Ton/Ha)	Producción (Miles de pesos)	Consumo intermedio (Miles de pesos)	Valor agregado bruto (Miles de pesos)
Agave					0	0	0
Alfalfa Verde	336	336	29,504	88	19,172	7,132	12,040
Avena Forrajera	200	200	4,956	25	2,337	870	1,468
Cebolla					0	0	0
Chile Verde	1	1	8	8	49	18	31
Frijol	2,436	2,421	925	0	4,969	1,849	3,120
Maiz Forrajero	10,427	10,427	103,787	10	62,430	23,225	39,205
Maiz Grano	8,775	8,745	6,696	1	19,197	7,142	12,056
Manzana	2	2	12	6	48	18	30
Nopal Forrajero	88	88	2,804	32	1,002	373	629
Nuez	2	2	3	2	104	39	66
Pastos	761	716	5,376	8	2,593	965	1,629
Tomate Verde					0	0	0
Tuna	32	32	102	3	296	110	186
Uva	91	87	1,226	14	4,766	1,773	2,993
Total	23,151	23,057	155,400	7	116,963	43,511	73,451