



**15TH NATIONAL
CONVENTION
ON STATISTICS**

03-05 OCTOBER 2022

*Organized by the Philippine Statistical System
Spearheaded by the Philippine Statistics Authority*



Developing Biodiversity Asset Accounts of the Philippines using SEEA Ecosystem Accounting Framework

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Environmental and Ecosystem Accounts

Crowne Plaza Galleria Manila

8:00-10:30 AM, 5 October 2022



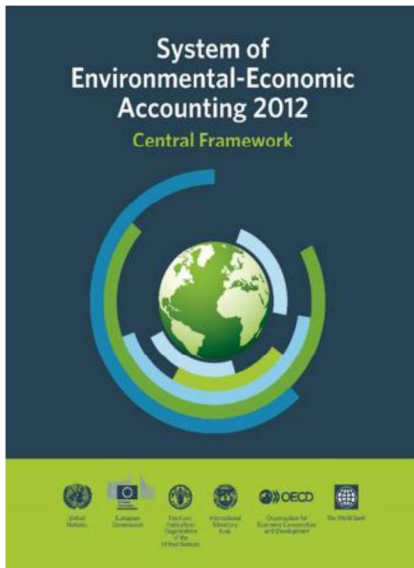
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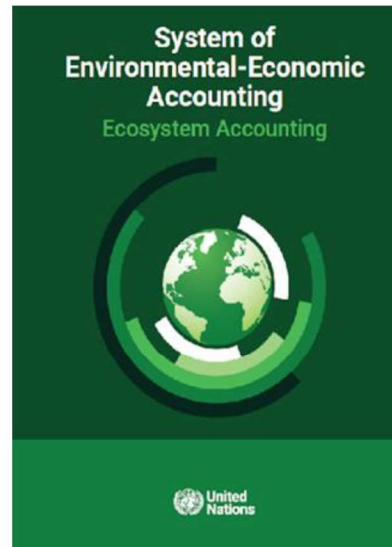
System of Environment-Economic Accounting



SEEA

CENTRAL FRAMEWORK

Focuses on individual
natural assets



SEEA

ECOSYSTEM ACCOUNTING

Focuses on ecosystems and
the services they provide



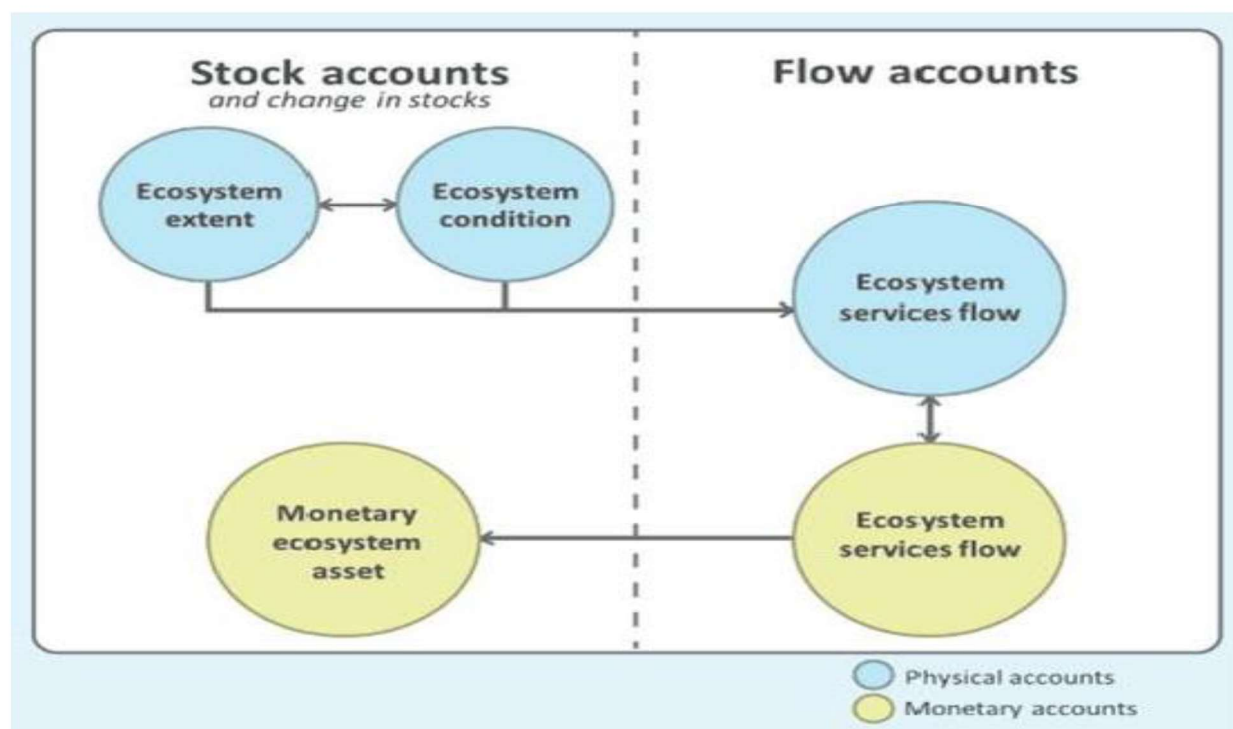
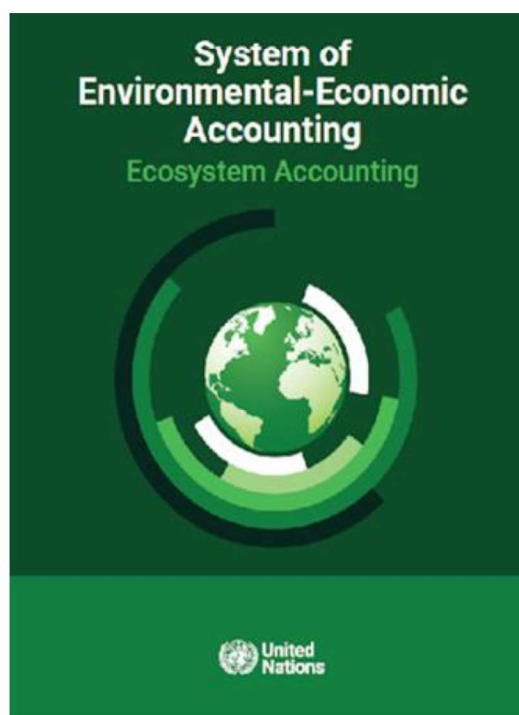
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SEEA Ecosystem Accounting





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Biodiversity

Biodiversity is *“the variability among living organisms from all sources including inter-alia, terrestrial, marine, and other aquatic ecosystems”* (Convention on Biological Diversity).

Biodiversity

- supports ecosystems that provide provisioning, regulating, cultural, and supporting services
- biological resources play a vital role in contributing to at least 40 percent of the world's economy and providing 80 percent of the needs of the marginalized sector
- provides basic needs such as food, water, shelter, clothing
- integral part of culture and identity



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SEEA Ecosystem Accounting: Biodiversity Accounts

Table 1. Species account for Ecosystem Accounting Area from SEEA-EA

	Species/ Group 1	Species/ Group 2	Species/ Group 3	Species/ Group 4	Species/ Group 5
Opening Measure					
Additions					
Managed					
Unmanaged					
Reductions					
Managed					
Unmanaged					
<i>Net Change</i>					
Closing Measure					

Source: SEEA Ecosystem Accounting



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Operationalizing the framework

Methodology

The number of additions and reductions to stocks of flora and fauna is estimated using a baseline data

In order to identify the number of additions and reductions to stocks, the baseline data were compared with the updated list of threatened flora and fauna

Scope and limitations

Only two official data sets used each for threatened flora and fauna species that are ten and fifteen years apart, respectively.



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Operationalizing the framework

Data		Years covered
DAO 2004-15	List of threatened wild fauna	2004-2018
DAO 2019-09		2019-Present
DAO 2007-01	List of threatened wild flora	2007-2016
DAO 2017-11		2017-Present

Data source:

**Department of Environment and Natural Resources-
Biodiversity Management Bureau**



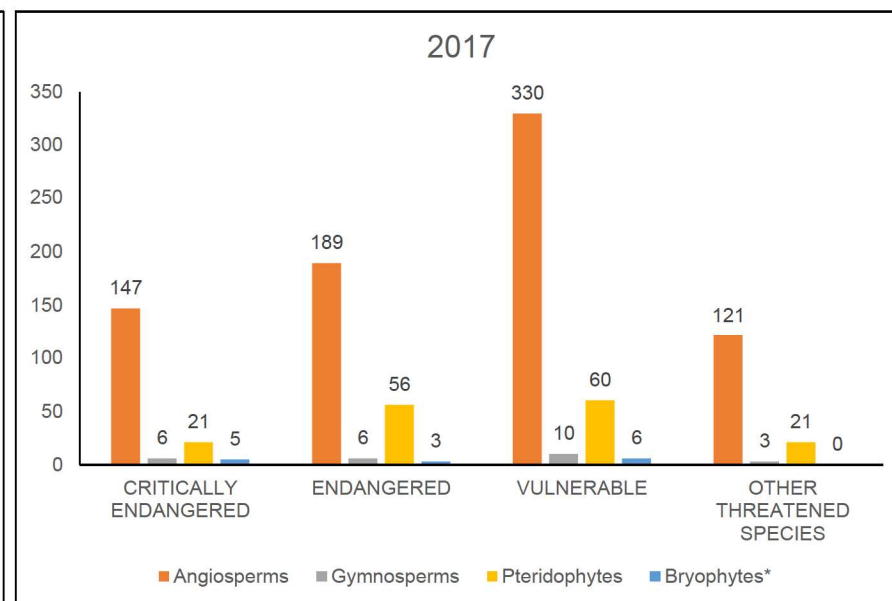
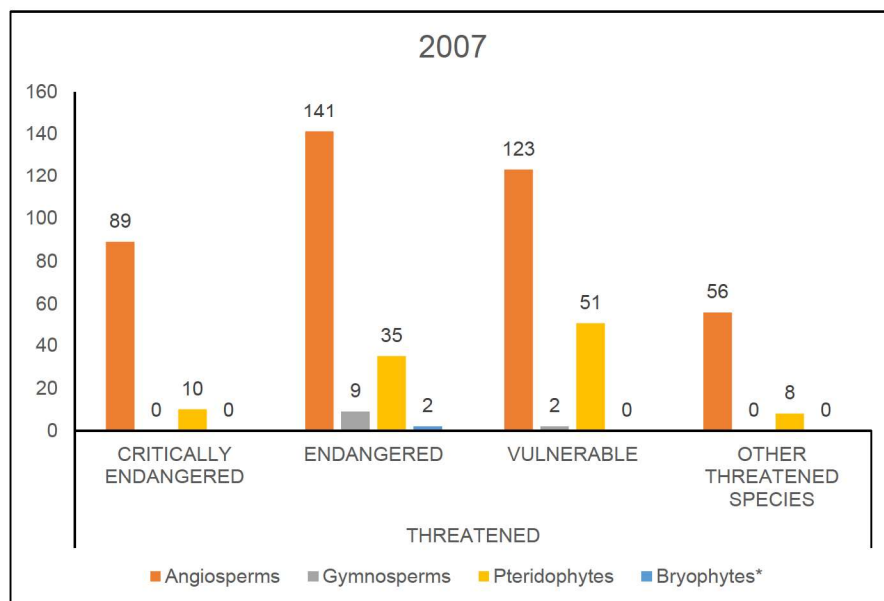
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Results: Threatened Flora





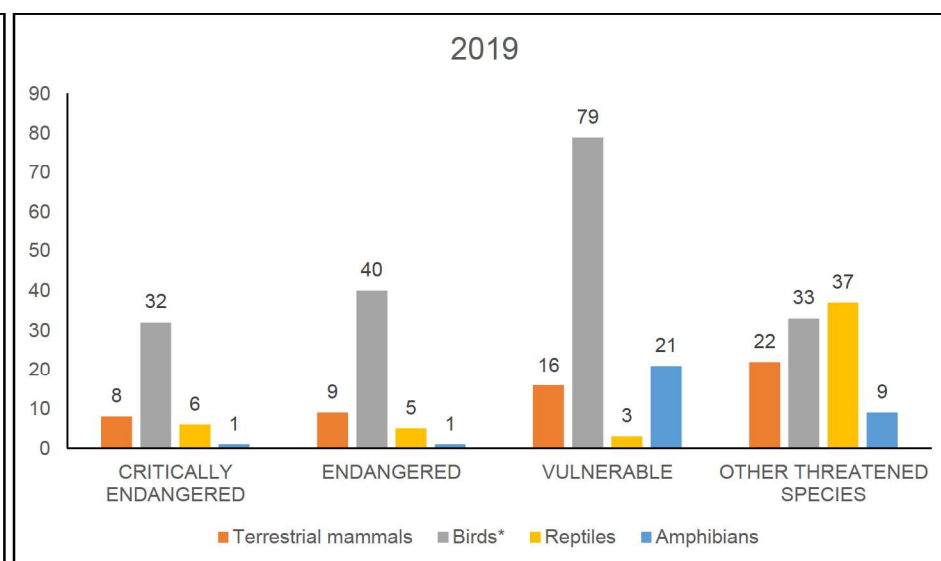
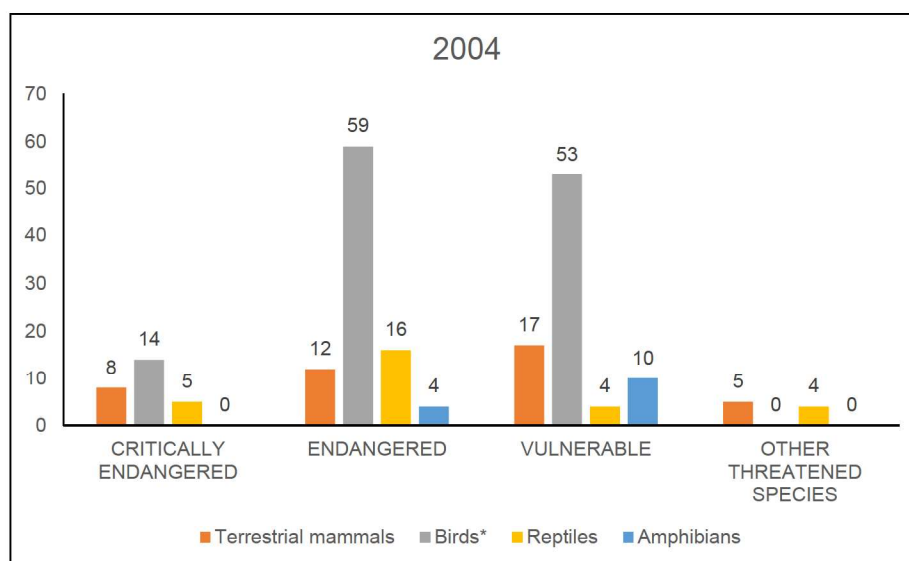
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Results: Threatened Fauna





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Ways forward

- Update
- Disaggregation to subnational level
- Development of geospatial data on the threatened flora and fauna species



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Thank you!



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