SEEA EEA Revision
Ecosystem services
Recreation services and benefits

Virtual Expert Forum
25 August 2020

Rocky Harris
Defra, UK
Recreation-related services

An important use of ecosystems occurs when people undertake recreation in them. In many cases the activity is supported by businesses providing access, material support (food, equipment, guidance) and transport services.

Where payments are made to these businesses by people undertaking recreation the precise set of accounting entries needs to be determined such that the links between the ecosystem, the people undertaking the recreation and the businesses involved are appropriately recorded.

Questions:

• Is it appropriate for households, as the sector undertaking the recreation, to be considered the sole user of the recreation related ecosystem services?
• If so, how should the connection between ecosystems and local businesses be recorded?
Recreation-related services

Chapter 6
Recreation-related services are the ecosystem contributions, in particular through the biophysical characteristics and qualities of ecosystems, that enable people to use and enjoy the environment through physical and experiential interactions with the environment. They are final ecosystem services.

Physical metrics: Number and length of visits
Benefits: Physical and mental health; Enjoyment
Users: Households; Tourism and Outdoor Leisure sectors
Chapter 7

7.46 The recommended treatment … is to record the supply from the relevant ecosystem type and **households as users of the service**. This flow should be recorded irrespective of the … involvement of businesses in facilitating or supporting the activity.

7.47 In addition, a **supplementary row** to the use of ecosystem services should be recorded showing the connection between the ecosystem and relevant businesses. This entry does not add additional supply but provides complementary data on the use of ecosystem services. Further, **whether recorded as use by households or businesses**, the flows still reflect final ecosystem services.

**Users and beneficiaries**
Businesses: users or just beneficiaries?

The businesses are clearly beneficiaries. But do they have a sufficiently direct relationship with the ecosystem to count as users or are they just downstream beneficiaries?

If they are not seen as users, what kind of supplementary row should we record in the use table in order to register the benefits?

If they are seen as users, how do we record the supply and use in physical terms?
Option 1: Households are the only users

Supply table records 100 visits

Use table records 100 visits made by households

*The supplementary row(s) in the Use table would show … what?*

Transactions relating to recreation visits, by sector:

- Canoe hire 40
- Visitor permits 80 (20 free entry)

*NB. The total number of transactions could be many times more than the number of visits; the monetary supply-use table will show the value to households but will include the benefit which is transferred to businesses*
Recreation service physical supply and use
Option 1 Households as sole users

<table>
<thead>
<tr>
<th>Unit</th>
<th>Economic unit (selected)</th>
<th>Ecosystem asset (selected types)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Owner</td>
<td>Off-site provider</td>
</tr>
<tr>
<td></td>
<td>Households</td>
<td>Total use</td>
</tr>
<tr>
<td></td>
<td>Open water</td>
<td>Farmland</td>
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<tr>
<td></td>
<td>Total supply</td>
<td></td>
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<tr>
<td><strong>SUPPLY</strong></td>
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<tr>
<td>ES #1: Recreation</td>
<td>Visits</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100</td>
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<tr>
<td><strong>USE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ES #1: Recreation</td>
<td>Visits</td>
<td>100</td>
</tr>
<tr>
<td>Supplementary row – transactions relating to recreation</td>
<td>80</td>
<td>40</td>
</tr>
</tbody>
</table>
Option 2: Joint (simultaneous) use by households and businesses

Supply table records 240 recreation-related interactions

Use table records:

Canoe use 40
Visitor access use 100 (includes 20 free entry)
Household canoe use 40 plus visits 100 = 140

NB The monetary supply and use tables will include the contribution to benefit to businesses from the canoe hire and entrance fees, as well as any (residual) benefit to households
Recreation service physical supply and use
Option 2- joint users

<table>
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<td>SUPPLY</td>
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<tr>
<td>ES Recreation #1: Interactions</td>
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<tr>
<td>USE</td>
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<tr>
<td>ES Recreation #1: Interactions</td>
<td>40</td>
<td>100</td>
</tr>
</tbody>
</table>
Option 1. Businesses are downstream beneficiaries. A supplementary row could record “transactions” relating to the visits. In the monetary supply-use table, the benefit to households would include the benefit which would ultimately be transferred to businesses.

Option 2. Businesses are joint users, interacting with the ecosystem at the same time as the household visitor. The physical supply and use tables record these “interactions”. The monetary supply and use tables record the benefit to the relevant business as well as any residual benefit to households.

Any other options?

Views, comments, preferences?