**Select the ecosystem services delivered by the site**. For those services for which the site is particularly important, because the service is essential or non-substitutable, or a high proportion of people in the surrounding area benefit from it, please also record additional information using the tickboxes, along with information on beneficiaries and any additional relevant details.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Ecosystem Service** | **Provided** | **Beneficiaries of ES** | | | **Importance of ES** | | **Change in ES** | |
| Within the site | Adjacent to the site | Distant from the site | Most important services | Additional detail on the ES, beneficiaries and/or importance | Change in past 10 yrs  [arrows] | Additional detail on changes |
| **Provisioning services** |  |  |  |  |  |  |  |  |
| Food | ✓ | ✓ | ✓ | ✓ | ★ | Farms provide food but also other services through environmental payments scheme | ⇧ | Increase in availability of local produce |
| Timber and other raw products | ✓ |  |  | ✓ |  | Timber is produced but hard to source locally |  |  |
| Biomass fuel / renewable energy | ✓ |  |  |  |  |  |  | More renewable energy and local interest in this |
| Fresh water | ✓? | ✓ |  | ✓ |  |  |  |  |
| Genetic material | ✓ |  |  |  |  | Osprey project contributes to genetic research on UK individuals |  |  |
| Biochemical and medicinal resources | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| **Regulating services** |  |  |  |  |  |  |  |  |
| Air-quality regulation | ✓ | ✓ | ✓ | ✓ |  | Local air quality is good, presence of lichens as indicator |  |  |
| Climate regulation | ✓ | ✓ | ✓ | ✓ | ★ | Increased awareness of the role of habitats in regulating climate | ⬄ | More awareness |
| Water-flow regulation | ✓ | ✓ |  |  |  | Closing ditches that were opened up for forestry and agriculture in the past and restoration of water storing ecosystems (peat) |  |  |
| Erosion regulation | ✓ |  |  |  |  |  |  |  |
| Water purification /waste treatment | ✓ |  |  |  |  | Water quality is affected from historic mining and acidification of forestry plantations. This is regularly monitored for the WFD |  |  |
| Disease regulation | ✓ |  |  |  |  |  |  |  |
| Pest regulation | ✓ |  |  |  |  |  |  |  |
| Pollination | ✓ |  |  |  |  | Diversity of habitats available including semi-natural grassland and woodlands for flower and tree pollen. Increase in organic farms and gardens. | ⇧ | Increase in bee-keeping |
| Natural hazard mitigation | ✓ |  |  |  |  |  |  |  |
| **Cultural services** |  |  |  |  |  |  |  |  |
| Cultural identity and heritage | ✓ | ✓ |  |  | ★ |  | ⬄ | Dyfi has always been important for culture and heritage though young people are moving away. |
| Spirituality and religion | ✓ | ✓ |  |  |  |  |  |  |
| Knowledge systems and education | ✓ | ✓ | ✓ | ✓ |  |  |  |  |
| Cognitive development, health, wellbeing | ✓ | ✓ |  |  |  |  |  |  |
| Aesthetic experience | ✓ | ✓ |  |  | ★ |  |  |  |
| Inspiration for human creative thought and work | ✓ | ✓ | ✓ | ✓ |  | Lots of festivals relating to arts and culture. Creative community, people moving to area with this interest | ⇧ | Recently increase in festivals and events around |
| Recreation, ecotourism | ✓ | ✓ | ✓ | ✓ | ★ |  | ⇧ | Green tourism, cycling, Coast Path |
| Sense of place | ✓ | ✓ |  |  | ★ |  |  |  |

**Essential or non-substitutable** = Critical to the lives, livelihoods or culture of a particular group or groups. These include services upon which one or more groups of people are highly dependent, or services which cannot be substituted or replaced. Examples include unique cultural values as well as biophysical values such as sources of water, food, or materials that are essential to the well-being or cultural identity of one or more groups of people.

**Adjacent to the site** = Living in close proximity to the site and/or physically linked or connected to the site, for example through a river

**Distant from the site** = Not living in close proximity to the site and/or not physically linked or connected to the site.