

Appendix 3. Identifying scales of ecosystem service benefit distribution

Table A.3.1

Ecosystem service	Scale of benefits	Rationale	Additional scales of demand
Crop production	Site	Farmers are the primary beneficiaries of crop production through harvesting and sale of crops. Crops are harvested directly from sites (fields).	Regional/global markets, provincial economy
Pork production	Site	Farmers are the primary beneficiaries of pork production through raising and sale of pigs. The final product is sold from the site (farm).	Regional/global markets, provincial economy
Drinking water	Local (municipal)	Surface water is harvested from local rivers for uptake into water treatment plants that serve municipalities. Entire municipalities consume water from the same treatment centre.	
Maple syrup production	Site	Farmers are the primary beneficiaries of maple syrup production through harvesting and sale of maple syrup. Maple syrup is harvested directly from sites (maple stands).	Regional/global markets, provincial economy
Deer hunting	Site to local (landscape)	Deer hunting occurs on specific sites or across local landscapes. The hunters are the primary beneficiaries of deer kills and may stay at one site (a field or forest site) or move over the landscape using multiple sites and tracking deer.	Regional interest – hunters from outside of area
Nature appreciation	Site to local (landscape)	Observers of rare species visit landscapes to observe nature and are the primary beneficiaries of nature appreciation. They sometimes appreciate plant or animal species at a particular site.	Regional interest – enthusiasts from metropolitan areas
Tourism	Site to local (landscape)	Tourists and tourism operators are the primary beneficiaries of tourism sites and enjoy this service either at a particular site or in a local area as they move across the landscape.	Regional and Provincial tourists
Summer cottages	Site to local (landscape)	Cottage dwellers are the primary beneficiaries of summer cottages and enjoy this service on site (cottage land) or at the level of the local landscape if their surrounding area and land use patterns are important for this enjoyment.	Regional property owners
Forest recreation	Site to local (landscape)	Recreators of different types are the primary beneficiaries of forest recreation services and generally move across the forest landscape to enjoy these services. In some cases (e.g. mushroom picking) they may utilize specific sites to enjoy a service.	Regional interest in recreation
Carbon	Global	Global populations are the primary beneficiaries of carbon sequestration as it	

sequestration		contributes to climate regulation. Global carbon markets exist to capture the consumption of this service.	
Soil retention of phosphorus	Site and regional (watershed)	Farmers are the primary beneficiaries of this service on sites where the service is produced as they benefit from phosphorus being retained in their fields to maintain soil fertility and contribute to crop production. Farmers are given incentives to maintain this service at the site level. Watershed populations are also primary beneficiaries of this service as it contributes to maintaining water quality at this higher scale.	Regional, provincial and national interest in maintaining water quality
Soil organic matter	Site	Farmers are the primary beneficiaries of soil organic matter as it contributes directly to crop production in their fields and makes their land more or less valuable.	