

## **Supplementary material for**

**Uncovering the hidden numbers of nature in the standard accounts of society:  
application to a case study of oak woodland *dehesa* and conifer forest farms in  
Andalusia-Spain**

Authors: Pablo Campos \*, Bruno Mesa and Alejandro Álvarez

\*Corresponding author. E-mail: pablo.campos@csic.es

This file includes:

Supplementary text S1	2
Supplementary tables S1-S26	7

**Supplementary texts for**

**Uncovering the hidden numbers of nature in the standard accounts of society:  
application to a case study of oak woodland *dehesa* and conifer forest farms in  
Andalusia-Spain**

<b>S1. Accounting frameworks</b>	<b>3</b>
<i>S1.1. Refined standard System of National Accounts</i>	3
<i>S1.2. Comparing the refined SNA and AAS frameworks</i>	4
<b>References</b>	<b>5</b>

## S1. Accounting frameworks

### S1.1. Refined standard System of National Accounts

The standard System of National Accounts (SNA), at nation/region scale, and the standard Farm Accounting Data Network (FADN), at farm scale, omit the contribution of the nature embedded in the products with market prices estimated for silvopastoral landscapes at either scale of application. The standard SNA and FADN methodologies coincide in the estimates of the values added of the farmer, except for the omission in the FADN of the manufactured gross capital formation. The FADN does not include the accounts for the economic activities of the government. Furthermore, the standard SNA and FADN methodologies omit the incorporation of net operating margins in their valuations of final products consumed without market prices. The FADN methodology estimates the farm aggregated values added of the final products consumed of the economic activities of the livestock and vegetables crops. The farms are classified according to predominant final product with market prices consumed type [36]. Hence, the FADN in practice omits the silvopastoral *dehesa* and forest farms.

The standard SNA accept the scientific inconsistency of valuing the final products consumed without market prices at cost prices in the belief that this reduces the uncertainty in their estimated value. In other words, governments reject a more complex and complete understanding of the economic statistic of accounts of society for the *dehesa* and forest farms. Thus, governments have opted for an incomplete official value added measurement by limiting it to the valuations of market final products consumed with market prices at producer (market) prices, and those without market prices at cost prices [31,32]. We believe that this hypothetical valuations of the public products consumed at cost prices, rejecting the simulated market social prices of non-commercial products is both controversial and inconsistent. The valuations of final products without market prices consumed can vary considerably under the SNA and AAS applications, depending on whether the cost prices are applied or the simulated transaction prices of the willingness to pay stated/revealed by the beneficiaries (consumers). In the case of public products, it is not clear whether the AAS simulation of social prices stated/revealed by the beneficiaries, or the SNA simulation of valuations according to the government cost prices, is closer to the real, observed consumption of products. Given the potentially greater consistency of the social prices as opposed to the cost prices valuations, we believe that the AAS valuations of final products without market prices consumed are likely to be closer to the reality than the SNA estimates at cost prices.

To the aim of results comparison, we refine lightly the SNA (rSNA), on the one hand, separate the components of self-employed compensation and the operating surplus of the net mixed income, and on the other, incorporate the government economic activities in the accounts of the *dehesa* and forest farms, which rSNA value the products at cost prices. Thus, the rSNA creates a new institutional sub-sector of the government as trustee in the name of society as a whole for the public activities of the *dehesa* and forest farms (*montes*). This rSNA does not modify the value added of the SNA at the farm scale, but it does modify the value added of the farmer and government case-study *dehesa* and forest farms. The rSNA splits the farm records from the general government accounts of the SNA and adds them to the new government sub-sector which we incorporate in the accounts of the *dehesa* and forest farms. In summary, the rSNA itemizes the net mixed income of the SNA, grouping the compensations of

employees and self-employed labour and the net operating surpluses of the activities with and without self-employed labour. Furthermore, the rSNA incorporate the register of the government public activities of the *dehesa* and forest farms that accruing from the general government sector.

### *S1.2. Comparing the refined SNA and AAS frameworks*

The greatest uncertainties as regards the estimates for individual activities in the rSNA and AAS applications to the case-study *dehesa* and forest farms are those related to: (1) self-employed labour compensation; (2) farmer voluntary opportunity cost; (3) intermediate product of services of the conservation forestry activity; (4) final product consumed of the recreation, landscape and threatened wild biodiversity activities; (5) ecosystem services; (6) revaluation of the environmental asset; (7) environmental income. All of these concepts have been developed and applied in our previous publications (see selected concept explanations in the main text 3.1.1-3.1.3, 3.1.5, 3.2.4-3.2.6). In this subsection we focus on describing the similarities and differences in the concepts of the rSNA and the AAS applied to the case-study *dehesa* and forest farms in Andalusia.

Both the rSNA and the AAS apply producer prices to the final products with market prices (includes both the transaction prices observed in formal markets, and the imputed transaction prices observed for flows consumed -e.g. mushrooms-, and stocks - e.g. long-term concessions of water consumption for irrigation of agricultural crops-), the cost prices to the products of own-account of inanimate gross capital formation (plantations, infrastructures and equipment), and both incorporate the compensations (operating “subsidies” net of taxes on production) in the estimation of the net value added at basic prices (see accounting details of the AAS methodology in the main text 3.2.2-3.2.6).

The differences between the rSNA and AAS relate to the following aspects: (1) final products without market prices (includes the private amenity activity as well as the public activities of recreation, landscape and threatened biodiversity) consumed are valued in the rSNA at cost prices and in the AAS at simulated transaction prices stated/revealed in accordance with the marginal willingness to pay of the consumers; (2) government compensations for inanimate fixed capital are annualized in the AAS and incorporated in the ordinary inanimate consumption of fixed capital of the forest conservation activity; (3) AAS incorporates the carbon activity (the public forest carbon activity is omitted in the rSNA as it is not included in the standard ISIC); (4) values added are estimated at social prices in the AAS and at basic prices in the rSNA; (5) rSNA omits the valuation of natural growth of woody forest products and of game animals in the final product and the respective extractions of work-in-progress products in the intermediate consumption of the period; (6) values added in the rSNA may incur a timing bias when the natural growth of the woody products and game animals does not coincide with the extractions of these products in the period; (7) values added in the rSNA is also limited by the inconsistency of incorporating the livestock fixed capital gain; (8) in the rSNA, net mixed income of activities involving self-employed labour compensation is not separated into the values for self-employed labour compensation and net operating surplus; (9) AAS separates the components of net mixed income of self-employed labour compensation and net operating surplus; (10) rSNA does not estimate the capital gain, except for that of the livestock, and therefore omits the valuation of the total income; and (11) rSNA does not measure the total immobilized capital for regional/national economic activities, thus making it impossible to estimate the total and operating profitability rates of the case-study *dehesa* and forest farms.

In the rSNA and AAS applied to the case study farms, the labour compensation (LC) and the manufactured consumption of fixed capital (CFCm) have the same concepts and valuations. Hence, the gross values added (GVA) differ in the gross operating margins/surpluses and the types of prices applied; producer, basic and social prices. The surpluses in the rSNA and the margins in the AAS measurements differ. The gross operating surpluses of the commercial products of the farmers are the only ones considered by the rSNA (the SNA simulates an operating surplus of zero for the final products without market prices consumed). The surpluses differ from the margins of the same products of the farmer in that the AAS excludes the capital gains of the breeding livestock and incorporates the difference given by the environmental natural growth at the closing of the period (NGc) less the environmental work in progress used (WPeu) in the margin at basic prices. In the estimates of the operating margins at social prices for the private *dehesa* and forest farms, the AAS adds the non-commercial intermediate product of private amenity self-consumption services (ISSnca) to the individual activity which generates them. The counterparts, of the same value, are incorporated as ordinary own non-commercial intermediate consumption of private amenity services (SSncooa) in the private amenity activity which uses them [6,7,13]. In the case of the public *dehesa* and forest farms, the AAS incorporates the same concepts as donated products (ISSncd) and ordinary own intermediate consumptions (SSncood), except for the livestock activity, for which the ISSnca is maintained. The SSncood are used by the production functions of the government activities [6,7,13]. For accounting details see main text 3.1.2, 3.1.5, and [6] (Supplementary text S3).

The consistency of the gross values added of the farmer in the AAS is corroborated by the market prices of the land. This is not the case for the resource rent estimated by the rSNA, which gives values for the net operating surpluses which may not be consistent with the market prices of the land. This inconsistency is due to the omission of the environmental margins of the private amenities in the rSNA. This statement is true if other changes of use and the autonomous component of the land price are assumed to have a value of zero. However, the differences in the values added of the commercial products under the rSNA and AAS do not have a predetermined sign given positive or negative values of the components of each specific activity.

## References

- 6 Campos, P.; Oviedo, J.L.; Álvarez, A.; Mesa, B.; Caparrós, A. The role of non-commercial intermediate services in the valuations of ecosystem services: Application to cork oak farms in Andalusia, Spain. *Ecosyst. Serv.* **2019**, 39, doi:10.1016/j.ecoser.2019.100996.
- 7 Campos, P.; Álvarez, A.; Mesa, B.; Oviedo, J.L.; Ovando, P.; Caparrós, A. Total income and ecosystem service sustainability index: accounting applications to holm oak *dehesa* case study in Andalusia-Spain. *Land Use Policy* **2020**, 97, 1–41, doi:10.1016/j.landusepol.2020.104692
- 13 Campos, P.; Mesa, B.; Álvarez, A.; Castaño, F.M.; Pulido, F. Testing extended accounts in scheduled conservation of open woodlands with permanent livestock grazing: Dehesa de la Luz Estate case study, Arroyo de la Luz, Spain. *Environments* **2017**, 4, 1–38, doi:10.3390/environments4040082.
- 28 INRA. Principes de la Nutrition et de L'alimentation des Ruminants; Besoins Alimentaires des Animaux, Valeur Nutritive des Aliments; Institut National De La Recherche Agronomique: Versailles, France, 1978; p. 597.

- 31 Alfsen, K.N.; Greaker, M. From Natural Resources and Environmental Accounting to Construction of Indicators for Sustainable Development; Discussion Papers; Statistics Norway, Research Department: Kongsvinger, Norway, 2006; Volume 478, p. 30.
- 32 OECD. *The new rural paradigm. Policy and governance*. Organisation for Economic Co-operation and Development: Paris, France, 2006. doi: 10.1787/19909284
- 36 European Commission. *Farm Accounting Data Network [FADN]. An A to Z of methodology*. Version 02/07/2018 14:46:12; European Commission: Brussels, Belgium, 2018, p. 119. Available online: [https://ec.europa.eu/agriculture/rica/pdf/site\\_en.pdf](https://ec.europa.eu/agriculture/rica/pdf/site_en.pdf) (accessed on 8 February 2021).
- 37 Martín, M.; Espejo, M.; Plaza, J.; López, T. Cálculo de la carga ganadera en la dehesa. In: *Conservación y Desarrollo de las Dehesas Portuguesa y Española*; Campos, P., Martín, M., Coord., Eds.; Secretaría General Técnica, Ministerio de Agricultura, Pesca y Alimentación: Madrid, Spain, 1987; pp. 239–258.

## **Supplementary tables for**

**Uncovering the hidden numbers of nature in the standard accounts of society:  
application to a case study of oak woodland *dehesa* and conifer forest farms in  
Andalusia-Spain**

Table S1. Livestock units by predominant vegetation type in case-study *dehesa* and forest farms in Andalusia (2010).

Class	Privately-owned <i>dehesa</i> farm		Publicly-owned <i>dehesa</i> farm		Privately-owned forest farm		Publicly-owned forest farm	
	N <sup>(1)</sup>	LU/100 ha	N	LU/100 ha	N	LU/100 ha	N	LU/100 ha
Meat cattle	12	6.4	1	1.3	1	4.5		
Sheep	8	3.0	2	1.0	2	0.3	6	1.4
Goats	6	1.6	1	0.0	1	0.0	7	0.6
Pigs	10	10.0			1	0.0		
Horses	8	2.1			2		1.1	1
Fighting bulls	2	12.3						0.0
Total	21	44.0	5	2.4	2	5.9	13	2.0

Notes: <sup>(1)</sup>N: Number of farms with the presence of this species more than 6 months per year.

LU: Livestock unit: Estimated as a coefficient of the annual energy requirements of a non-pregnant retinta cow with a weight of 450 kg [37]. A LU equals an annual requirement of 5,171.32 Mcal of metabolizable energy (For meat cattle, sheep and goats it equals the equivalent LU of adult breeders. For fighting bulls and horses it equals the equivalent LU of the animals older than one year. For pigs it equals the equivalent LU of the average number of Iberian pigs in *Montanera* per year and farm).

Total privately-owned *dehesa* farm area: 15,372 hectares; Average privately-owned *dehesa* farm area: 732 hectares. Total publicly-owned *dehesa* farm area: 17,909 hectares; Average publicly-owned *dehesa* farm area: 3,582 hectares. Total privately-owned forest farm area: 970 hectares; Average privately-owned forest farm area: 485 hectares. Total Total publicly-owned forest farm area: 53,923 hectares; Average Total publicly-owned forest farm area: 4,148 hectares.

Table S2. Grazed fodder consumption by species in privately-owned *dehesa* farm in Andalusia (2010: FU/ha).

Class	Grazing									Supplements	Total		
	Grass and browse			Acorn			Total						
	Commercial	Free	Total	Commercial	Free	Total	Commercial	Free	Total				
Grazing livestock (N <sup>(1)</sup> =21)	229.5	24.6	254.1	34.3		34.3	263.8	24.6	288.5	386.6	675.1		
<i>Meat cattle (N=12)</i>	83.9	10.7	94.6				83.9	10.7	94.6	36.6	131.2		
<i>Sheep (N=8)</i>	22.6	2.6	25.2	1.6		1.6	24.1	2.6	26.8	21.8	48.6		
<i>Goats (N=6)</i>	7.7	3.6	11.3	0.9		0.9	8.6	3.6	12.2	53.6	65.8		
<i>Pigs (N=10)</i>	30.8	1.1	31.8	31.9		31.9	62.6	1.1	63.7	143.4	207.1		
<i>Horses (N=8)</i>	9.9	0.2	10.0				9.9	0.2	10.0	40.6	50.7		
<i>Fighting bulls (N=2)</i>	74.7	6.5	81.2				74.7	6.5	81.2	90.5	171.7		
Hunting (N=21)	37.8	225.3	263.1	13.5	0.6	14.0	51.3	225.9	277.2	29.1	306.3		
<i>Red deer (N=11)</i>	33.9	165.6	199.5	11.6	0.1	11.6	45.4	165.7	211.1	11.8	223.0		
<i>Wild boar (N=11)</i>	3.5	37.3	40.9	1.9	0.5	2.4	5.4	37.9	43.3	16.9	60.2		
<i>Other species (N=16)</i>	0.4	22.3	22.7	0.0		0.0	0.4	22.3	22.7	0.4	23.2		
Total (N=21)	267.3	249.9	517.3	47.8	0.6	48.4	315.1	250.5	565.7	415.7	981.4		

Notes: <sup>(1)</sup>N: Number of estates with the presence of these species more than 6 months per year.

FU: Forage unit: refers to the energy content of a kilogram of barley with a humidity content of 14.1% and totals 2,723 kcal [28].

Total area: 15,372 hectares; Average area: 732 hectares.

Table S3. Grazed fodder consumption by species in publicly-owned *dehesa* farm in Andalusia (2010: FU/ha).

Class	Grazing									Supplements	Total		
	Grass and browse			Acorn			Total						
	Commercial	Free	Total	Commercial	Free	Total	Commercial	Free	Total				
Grazing livestock (N <sup>(1)</sup> =3)	35.4		35.4	1.4		1.4	36.8		36.8	10.6	47.5		
<i>Meat cattle (N=1)</i>	19.6		19.6				19.6		19.6	6.2	25.8		
<i>Sheep (N=2)</i>	14.9		14.9	1.3		1.3	16.2		16.2	4.1	20.2		
<i>Goats (N=1)</i>	1.0		1.0	0.1		0.1	1.0		1.0	0.4	1.4		
<i>Pigs (N=0)</i>													
<i>Horses (N=0)</i>													
<i>Fighting bulls (N=0)</i>													
Hunting (N=5)	4.2	125.4	129.6	0.7	9.3	10.0	4.9	134.7	139.6	3.7	143.3		
<i>Red deer (N=4)</i>	2.8	85.4	88.2	0.5	7.7	8.2	3.4	93.1	96.5	2.6	99.1		
<i>Wild boar (N=3)</i>	0.9	13.8	14.6	0.2	1.6	1.8	1.1	15.4	16.4		16.4		
<i>Other species (N=4)</i>	0.5	26.2	26.7	0.0		0.0	0.5	26.2	26.7	1.1	27.8		
Total (N=5)	39.7	125.4	165.1	2.1	9.3	11.4	41.8	134.7	176.5	14.3	190.8		

Notes: <sup>(1)</sup>N: Number of estates with the presence of this species more than 6 months per year.

FU: Forage unit: refers to the energy content of a kilogram of barley with a humidity content of 14.1% and totals 2,723 kcal [28].

Total area: 17,909 hectares; Average area: 3,582 hectares

Table S4. Grazed fodder consumption by species in privately-owned forest farm in Andalusia (2010: FU/ha).

Class	Grazing									Supplements	Total		
	Grass and browse			Acorn			Total						
	Commercial	Free	Total	Commercial	Free	Total	Commercial	Free	Total				
Grazing livestock (N <sup>(1)</sup> =2)	20.5		20.5				20.5		20.5	118.8	139.3		
<i>Meat cattle (N=1)</i>	6.5		6.5				6.5		6.5	83.1	89.6		
<i>Sheep (N=2)</i>	5.3		5.3				5.3		5.3	2.6	7.9		
<i>Goats (N=1)</i>	0.4		0.4				0.4		0.4		0.4		
<i>Pigs (N=1)</i>	0.6		0.6				0.6		0.6	0.8	1.4		
<i>Horses (N=2)</i>	7.8		7.8				7.8		7.8	32.4	40.1		
<i>Fighting bulls (N=0)</i>													
Hunting (N=2)	135.3	72.9	208.2				135.3	72.9	208.2	8.6	216.8		
<i>Red deer (N=1)</i>	135.3	69.7	205.0				135.3	69.7	205.0	7.6	212.6		
<i>Wild boar (N=2)</i>		3.2	3.2					3.2	3.2	1.0	4.2		
<i>Other species (N=0)</i>													
Total (N=2)	155.8	72.9	228.7				155.8	72.9	228.7	127.4	356.1		

Notes: <sup>(1)</sup>N: Number of estates with the presence of this species more than 6 months per year.

FU: Forage unit: refers to the energy content of a kilogram of barley with a humidity content of 14.1% and totals 2,723 kcal [28].

Total area: 970 hectares; Average area: 485 hectares

Table S5. Grazed fodder consumption by species in publicly-owned forest farm in Andalusia (2010: FU/ha).

Class	Grazing									Supplements	Total		
	Grass and browse			Acorn			Total						
	Commercial	Free	Total	Commercial	Free	Total	Commercial	Free	Total				
Grazing livestock (N <sup>(1)</sup> =7)	41.2	0.1	41.3	1.6		1.6	42.8	0.1	42.9	19.9	62.9		
<i>Meat cattle (N=0)</i>	<i>18.1</i>		<i>18.1</i>				<i>18.1</i>		<i>18.1</i>		<i>18.1</i>		
<i>Sheep (N=6)</i>	<i>16.2</i>	<i>0.1</i>	<i>16.3</i>	<i>1.1</i>		<i>1.1</i>	<i>17.3</i>	<i>0.1</i>	<i>17.4</i>	<i>14.1</i>	<i>31.5</i>		
<i>Goats (N=7)</i>	<i>6.9</i>	<i>0.1</i>	<i>6.9</i>	<i>0.4</i>		<i>0.4</i>	<i>7.3</i>	<i>0.1</i>	<i>7.4</i>	<i>5.8</i>	<i>13.2</i>		
<i>Pigs (N=0)</i>													
<i>Horses (N=1)</i>										<i>0.0</i>	<i>0.0</i>		
<i>Fighting bulls (N=0)</i>													
Hunting (N=12)	0.5	39.1	39.5	0.1	5.1	5.2	0.5	44.2	44.7	0.4	45.1		
<i>Red deer (N=8)</i>		<i>16.6</i>	<i>16.6</i>		<i>1.4</i>	<i>1.4</i>		<i>18.0</i>	<i>18.0</i>	<i>0.1</i>	<i>18.1</i>		
<i>Wild boar (N=9)</i>	<i>0.4</i>	<i>13.7</i>	<i>14.1</i>	<i>0.1</i>	<i>1.2</i>	<i>1.3</i>	<i>0.4</i>	<i>15.0</i>	<i>15.4</i>	<i>0.0</i>	<i>15.5</i>		
<i>Other species (N=11)</i>	<i>0.1</i>	<i>8.7</i>	<i>8.8</i>		<i>2.4</i>	<i>2.4</i>	<i>0.1</i>	<i>11.1</i>	<i>11.2</i>	<i>0.3</i>	<i>11.5</i>		
Total (N=13)	41.7	39.2	80.9	1.7	5.1	6.8	43.3	44.3	87.6	20.3	107.9		

Notes: <sup>(1)</sup>N: Number of estates with the presence of this species more than 6 months per year.

FU: Forage unit: refers to the energy content of a kilogram of barley with a humidity content of 14.1% and totals 2,723 kcal [28].

Total area: 53,923 hectares; Average area: 4,148 hectares.

Table S6. Summary of production, income generation, accumulation and capital balance of AAS applied to privately-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ14-20	Σ1-20	
<b>1. Total product consumption (TPc<sub>sp</sub>)</b>	0.8	122.4	6.9	64.8	1.2			87.8	0.3	17.3	238.6	24.2	311.2	875.5	34.9	26.2	13.4	52.3	126.4	16.7	65.9	336.0	1,211.5	
1.1 Intermediate product (IP)	0.8	59.2	1.1	64.5	1.2			65.5		13.1	105.6	2.3		313.3	34.9								34.9	348.2
1.2 Final product consumption (FPc)		63.2	5.8	0.4				22.3	0.3	4.2	133.0	21.9	311.2	562.3			26.2	13.4	52.3	126.4	16.7	65.9	301.0	863.3
2. Ordinary manufactured intermediate consumption (ICo)	0.0	58.1	0.6	6.3	0.3			34.6		1.5	275.2	7.8	192.0	576.4	10.8	2.9	0.1	74.5	1.5			89.7	666.1	
2.1 Bought (ICmob)	0.0	15.4	0.6	6.3	0.3			14.5		1.5	100.2	6.4		145.2	10.8	1.5	0.1	2.2	1.5			16.0	161.1	
2.2 Own (ICmo)		42.7	0.0					20.1			19.8		192.0	274.5			1.4		72.3	0.0			73.7	348.2
2.3 Manufactured work-in-progress used (WPmuo)											155.2	1.4		156.7										156.7
3. Ordinary labour compensation (LCo)	0.0	16.1	2.1	3.5	0.7			14.4	0.0	5.8	34.4	6.4		83.6	22.9	3.6	0.1	5.5	3.1			35.2	118.9	
3.1 Employee (LCe)	0.0	16.1	1.4	3.5	0.7			14.2	0.0	5.8	33.6	6.4		81.9	22.9	3.6	0.1	5.5	3.1			35.2	117.1	
3.2 Self-employed (LCse)			0.7					0.2		0.1	0.8			1.8										1.8
4. Ordinary consumption of fixed capital (CFCmo)	0.2	1.5	0.1	2.9	0.0			6.9	0.9	13.4	16.7	3.4		46.3	1.2	1.3	0.0	2.3	0.4			5.3	51.5	
5. Ordinary manufactured net operating margin (NOMmo)	0.6	4.8	2.9	39.8	0.2			3.9	-0.7	-3.5	-87.8	6.5		-33.3	0.0	-1.1	0.5	0.1	0.8			0.4	-32.9	
<b>6. Ecosystem services (ES<sub>sp</sub>) (1 - 2 - 3 - 4 - 5)</b>	41.9	1.3	12.3					28.0					119.1	202.5		19.5	12.7	52.3	44.2	10.8	65.9	205.4	407.9	
6.1 Environmental work-in-progress used (WPeu)	41.9	1.3						10.8						53.9										53.9
6.2 Ordinary environmental net operating margin (NOMEo)			12.3					17.2					119.1	148.6		19.5	12.7	52.3	44.2	10.8	65.9	205.4	354.0	
<b>7. Ordinary net value added (NV Ao) (1 - 2 - 4 - 6.1)</b>	0.6	20.9	4.9	55.6	0.9			35.5	-0.6	2.3	-53.4	13.0	119.1	199.0	22.9	22.0	13.3	52.3	49.7	14.7	65.9	241.0	440.0	
<b>8. Gross capital formation (GCF)</b>	0.6	24.9	0.3	29.2				11.1		1.4	186.7	1.6		255.8	3.2	0.8	0.1	1.8	1.0			6.9	262.7	
8.1 Manufactured (GCFm)	0.5		29.2					0.2		1.4	186.7	1.6		219.6	3.2	0.8	0.1	1.8	1.0			6.9	226.5	
8.2 Natural growth (NG)	0.1	24.9	0.3	0.0				10.9						36.2										36.2
9. Investment manu. intermediate consumption (ICmi)	0.1		18.7					0.1		0.3	57.7			76.9	1.0	0.2	0.0	0.5	0.3			2.1	79.0	
9.1 Bought (ICmib)	0.1		18.7					0.1		0.3	24.0			43.1	1.0	0.2	0.0	0.5	0.3			2.1	45.2	
9.2 Investment work-in-progress used (WPmui)											33.8			33.8										33.8
10. Investment labour compensation (LCi)	0.4		10.6					0.1		1.1	10.8			22.9	2.2	0.6	0.0	1.3	0.7			4.8	27.7	
10.1 Employee (LCe)	0.4		10.6					0.1		1.1	10.8			22.9	2.2	0.6	0.0	1.3	0.7			4.8	27.7	
10.2 Self-employed (LCse)								0.0		0.0	0.0			0.1									0.1	
11. Investment consumption of fixed capital (CFCi)																				14.9		14.9	14.9	
11.1 Consumption of fixed manufactured capital (CFCmi)																							14.9	
11.2 Consumption of fixed environmental asset (SSE)																				14.9		14.9	14.9	
12. Investment net operating margin (NOMi)	0.1	24.9	0.3	0.0				10.9			118.1	1.6		156.0		0.0	-14.9	0.0	-14.9			-14.9	141.1	
12.1 Manufactured (NOMmi)	0.0		0.0					0.0			118.1	1.6		119.8		0.0		0.0				0.0	119.8	
12.2 Environmental (NOMEi)	0.1	24.9	0.3	0.0				10.9						36.2			-14.9						-14.9	21.4
12.2.1 Natural growth (NG)	0.1	24.9	0.3	0.0				9.2						34.5										34.5
12.2.2 Less carbon emission (SSE)																	-14.9					-14.9	-14.9	
<b>13. Investment net value added (NVAi) (8 - 9 - 11)</b>	0.5	24.9	0.3	10.6				11.0		1.1	129.0	1.6		178.9	2.2	0.6	0.0	-14.9	1.3	0.7		-10.1	168.9	

Table S6. (cont) Summary of production, income generation, accumulation and capital balance of AAS applied to privately-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ14-20	Σ1-20
<b>14. Total product (TP) (1 + 8)</b>	1.4	147.3	7.2		94.1	1.2		98.9	0.3	18.6	425.3	25.8	311.2	1,131.3	38.1	27.0	13.5	52.3	128.2	17.8	65.9	342.9	1,474.2
15. Intermediate consumption (IC)	0.1	58.1	0.6		24.9	0.3		34.7		1.8	333.0	7.8	192.0	707.2	11.8	3.1	0.1	75.0	1.9	2.7	91.8	21.4	799.0
15.1 Bought (ICb)	0.1	15.4	0.6		24.9	0.3		14.6		1.8	124.2	6.4		188.3	11.8	1.7	0.1		2.7	1.8		18.1	206.4
15.2 Own (ICmo)		42.7	0.0					20.1			19.8		192.0	274.5		1.4		72.3	0.0		73.7	348.2	
15.3 Work-in-progress used (WPu) (2.3 + 6.1 + 9.2)		41.9	1.3					10.8			189.0	1.4		244.4								244.4	
<b>16. Gross value added (GVA) (14 – 15)</b>	1.3	47.4	5.3		69.2	1.0		53.5	0.3	16.8	92.3	18.0	119.1	424.1	26.3	23.9	13.4	52.3	53.3	15.9	65.9	251.1	675.2
16.1 Labour compensation (LC)	0.4	16.1	2.1		14.1	0.7		14.5		0.0	6.9	45.2	6.4		106.5	25.1	4.2	0.1	6.7	3.9		40.1	146.6
16.2 Gross operating margin (GOM)	0.9	31.3	3.3		55.0	0.3		39.0	0.2	9.9	47.0	11.6	119.1	317.6	1.2	19.7	13.3	52.3	46.5	12.0	65.9	211.0	528.6
17. Consumption of fixed capital (CFC)	0.2	1.5	0.1		2.9	0.0		6.9	0.9	13.4	16.7	3.4		46.3	1.2	1.3	0.0	14.9	2.3	0.4		20.1	66.4
<b>18. Net value added (NVA) (7 + 13 = 16 – 17)</b>	1.1	45.8	5.2		66.2	0.9		46.5	-0.6	3.4	75.6	14.6	119.1	377.9	25.1	22.6	13.4	37.5	51.0	15.5	65.9	230.9	608.8
18.1 Labour compensation (LC)	0.4	16.1	2.1		14.1	0.7		14.5	0.0	6.9	45.2	6.4		106.5	25.1	4.2	0.1	6.7	3.9		40.1	146.6	
18.2 Net operating margin (NOM)	0.7	29.7	3.1		52.1	0.2		32.0	-0.7	-3.5	30.3	8.2	119.1	271.3		18.4	13.2	37.5	44.3	11.6	65.9	190.9	462.2
18.2.1 Manufactured net operating margin (NOMm)	0.6	4.8	2.9		39.8	0.2		3.9	-0.7	-3.5	30.3	8.2		86.5	0.0	-1.1	0.5	0.1	0.8		0.4	86.8	
18.2.2 Environmental net operating margin (NOME)	0.1	24.9	0.3		12.3			28.2					119.1	184.8		19.5	12.7	37.5	44.2	10.8	65.9	190.5	375.4
<b>19. Capital gain (CG)</b>	0.7	123.7	5.5	0.0	-4.0	-0.1		-9.0	0.0	-22.1	-29.5	-2.7	-209.1	-146.6	-2.3	1.6	0.5	-38.1	0.8	2.1		-35.4	-182.0
19.1 Manufactured capital gain (CGm)	-0.2	-2.1	-0.1		-2.8	-0.1		-8.3	0.0	-22.1	-29.5	-2.7		-67.8	-2.3	1.6	0.5	0.8	2.1		2.7	-65.2	
19.2 Environmental asset gain (EAg)	0.9	125.8	5.6	0.0	-1.2			-0.7					-209.1	-78.7				-38.1				-38.1	-116.9
19.2.1 Environmental asset revaluation (EAr)	1.0	148.6	5.9	0.0	-1.2			-0.3					-209.1	-55.2				12.7				12.7	-42.4
19.2.2 Less adjustment to environmental asset (EAad)	0.1	22.8	0.2					-1.0						22.2				50.8				50.8	73.0
<b>20. Total income (TI) (20.1 + 20.2.1 + 20.2.2)</b>	1.8	169.5	10.7	0.0	62.3	0.8		37.5	-0.6	-18.7	46.1	11.8	-90.0	231.3	22.8	24.2	13.8	-0.6	51.8	17.5	65.9	195.5	426.8
<b>20.1 Labour compensation (LC)</b>	0.4	16.1	2.1		14.1	0.7		14.5	0.0	6.9	45.2	6.4		106.5	25.1	4.2	0.1	6.7	3.9		40.1	146.6	
20.2 Capital income (CI)	1.4	153.4	8.6	0.0	48.1	0.1		23.0	-0.6	-25.5	0.8	5.4	-90.0	124.8	-2.3	20.0	13.7	-0.6	45.1	13.7	65.9	155.4	280.2
<b>20.2.1 Manufactured capital income (CIm)</b>	0.4	2.7	2.7		37.1	0.1		-4.5	-0.6	-25.5	0.8	5.4		18.7	-2.3	0.5	1.0	0.9	2.9		3.0	21.7	
<b>20.2.2 Environmental income (EI) (20.2.2.1 + 20.2.2.2)</b>	1.0	150.7	5.9	0.0	11.1			27.5					-90.0	106.1		19.5	12.7	-0.6	44.2	10.8	65.9	152.4	258.5
20.2.2.1 Ecosystem services (ES) (6)		41.9	1.3		12.3			28.0					119.1	202.5		19.5	12.7	52.3	44.2	10.8	65.9	205.4	407.9
<b>20.2.2.2 WPeu adjusted to CNWe (CNWead)</b>	1.0	108.8	4.6	0.0	-1.2			-0.6					-209.1	-96.4				-53.0				-53.0	-149.4
20.2.2.2.1 Change of environmental net worth (CNWe)	1.0	150.7	5.9	0.0	-1.2			10.2					-209.1	-42.5				-53.0				-53.0	-95.5
20.2.2.2.2 Less environ. work-in-progress used (WPeu) (6.1)		41.9	1.3					10.8						53.9								53.9	
<b>21. Change of environmental net worth (CNWe)</b>	1.0	150.7	5.9	0.0	-1.2			10.2					-209.1	-42.5				-53.0				-53.0	-95.5
21.1 Investment of environmental net operating margin (NOMEi) (12.2)	0.1	24.9	0.3		0.0			10.9						36.2				-14.9				-14.9	21.4
21.2 Environmental asset gain (EAg)	0.9	125.8	5.6	0.0	-1.2			-0.7					-209.1	-78.7				-38.1				-38.1	-116.9

N: 21 estates with the presence of livestock species more than 6 months per year. Total area: 15,372 hectares; Average area: 732 hectares.

Table S7. Summary of production, income generation, accumulation and capital balance of AAS applied to publicly-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricul-tural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	Σ 14-20	Σ 1-20		
<b>1. Total product consumption (TPc<sub>sp</sub>)</b>	16.8	70.2	0.5	4.1	1.8	13.7		39.2		0.4	10.4		1.6	158.5	39.4	99.3	15.5	85.3	196.0	30.3	109.9	575.8	734.4	
1.1 Intermediate product (IP)	2.9	47.6	0.4	4.1	1.7	13.7		29.7			5.1			105.2	39.4							39.4	144.6	
1.2 Final product consumption (FPc)	13.9	22.6	0.1	0.0	0.1			9.4		0.4	5.2		1.6	53.3		99.3	15.5	85.3	196.0	30.3	109.9	536.4	589.8	
2. Ordinary manufactured intermediate consumption (ICo)	2.8	48.7	0.2	0.6	0.0	8.0		11.9			8.3	0.0	1.6	82.1	11.5	4.1	0.0				110.6	6.5	132.8	214.9
2.1 Bought (ICmob)	0.0	32.1	0.2	0.6	0.0	8.0		3.4			4.1	0.0		48.4	11.5	2.2	0.0				3.6	1.6	18.9	67.3
2.2 Own (ICmo)	2.8	16.6	0.0					8.5			1.2		1.6	30.8		1.9					107.0	4.9	113.8	144.6
2.3 Manufactured work-in-progress used (WPmuo)											2.9			2.9									2.9	
3. Ordinary labour compensation (LCo)	6.0	3.9	0.3	3.4	0.0	5.1		10.3	0.0	1.2	0.0		30.3	26.5	5.8	0.2				10.9	4.3	47.6	77.9	
3.1 Employee (LCe)	6.0	3.9	0.3	3.4	0.0	5.1		10.1	0.0	0.7	0.0		29.5	26.5	5.8	0.2				10.9	4.3	47.6	77.2	
3.2 Self-employed (LCse)								0.2			0.5			0.7									0.7	
4. Ordinary consumption of fixed capital (CFCmo)	0.1	0.4		0.0	0.2	0.3		2.2	0.0	1.1	0.0		4.2	1.3	1.6	0.0				2.1	0.6	5.6	9.8	
5. Ordinary manufactured net operating margin (NOMmo)	3.4	0.7	0.0	0.1	0.3	0.3		1.7	0.0	0.4	-0.3	0.0		6.6		3.0	0.5			0.3	1.0	4.7	11.3	
6. Ecosystem services (ES <sub>ep</sub> ) (1 – 2 – 3 – 4 – 5)	4.5	16.5	0.0	0.1	1.3			13.0					35.3		84.9	14.8	85.3	72.2	18.0	109.9	385.1	420.4		
6.1 Environmental work-in-progress used (WPeu)	4.5	16.5	0.0					4.7					25.7										25.7	
6.2 Ordinary environmental net operating margin (NOMEo)				0.1	1.3			8.3					9.6		84.9	14.8	85.3	72.2	18.0	109.9	385.1	394.7		
<b>7. Ordinary net value added (NV Ao) (1 – 2 – 4 – 6.1)</b>	<b>9.4</b>	<b>4.6</b>	<b>0.3</b>	<b>3.5</b>	<b>1.6</b>	<b>5.4</b>		<b>20.3</b>	<b>0.0</b>	<b>0.4</b>	<b>0.9</b>	<b>0.0</b>	<b>46.5</b>	<b>26.5</b>	<b>93.7</b>	<b>15.5</b>	<b>85.3</b>	<b>83.3</b>	<b>23.3</b>	<b>109.9</b>	<b>437.5</b>	<b>483.9</b>		
<b>8. Gross capital formation (GCF)</b>	<b>0.8</b>	<b>19.8</b>	<b>0.1</b>					<b>5.4</b>			<b>5.5</b>		<b>31.7</b>	<b>2.9</b>	<b>1.8</b>	<b>0.0</b>			<b>3.4</b>	<b>1.3</b>	<b>9.4</b>	<b>41.1</b>		
8.1 Manufactured (GCFm)								0.1			5.5		5.6	2.9	1.8	0.0			3.4	1.3	9.4	15.0		
8.2 Natural growth (NG)	0.8	19.8	0.1					5.3					26.1										26.1	
9. Investment manu. intermediate consumption (ICmi)								0.0			1.5		1.5	0.9	0.5	0.0			0.9	0.4	2.6	4.1		
9.1 Bought (ICmib)								0.0			0.6		0.6	0.9	0.5	0.0			0.9	0.4	2.6	3.2		
9.2 Investment work-in-progress used (WPmui)								0.0			0.9		0.9									0.9		
10. Investment labour compensation (LCi)								0.0			0.4		0.4	2.1	1.3	0.0			2.6	0.9	6.9	7.3		
10.1 Employee (LCe)								0.0					0.0	2.1	1.3	0.0			2.6	0.9	6.9	6.9		
10.2 Self-employed (LCse)								0.0			0.4		0.4									0.4		
11. Investment consumption of fixed capital (CFCi)																		30.2			30.2	30.2		
11.1 Consumption of fixed manufactured capital (CFCmi)																		30.2			30.2	30.2		
11.2 Consumption of fixed environmental asset (SSE)																		30.2			30.2	30.2		
12. Investment net operating margin (NOMi)	0.8	19.8	0.1					5.3			3.6		29.7	0.0				-30.2			-30.2	-0.4		
12.1 Manufactured (NOMmi)								0.0			3.6		3.6	0.0							0.0	3.6		
12.2 Environmental (NOMEi)	0.8	19.8	0.1					5.3					26.1					-30.2			-30.2	-4.1		
12.2.1 Natural growth (NG)	0.8	19.8	0.1					4.5					25.2									25.2		
12.2.2 Less carbon emission (SSE)																	-30.2			-30.2	-30.2			
<b>13. Investment net value added (NVAi) (8 – 9 – 11)</b>	<b>0.8</b>	<b>19.8</b>	<b>0.1</b>					<b>5.4</b>			<b>4.0</b>		<b>30.1</b>	<b>2.1</b>	<b>1.3</b>	<b>0.0</b>	<b>-30.2</b>	<b>2.6</b>	<b>0.9</b>	<b>-23.3</b>	<b>6.8</b>			

Table S7. (cont) Summary of production, income generation, accumulation and capital balance of AAS applied to publicly-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20	
<b>14. Total product (TP) (1 + 8)</b>	17.6	89.9	0.6	4.1	1.8	13.7		44.6		0.4	15.9		1.6	190.2	42.3	101.1	15.6	85.3	199.5	31.6	109.9	585.3	775.5	
15. Intermediate consumption (IC)	2.8	48.7	0.2	0.6	0.0	8.0		12.0			9.8	0.0	1.6	109.3	12.4	4.6	0.0		111.5	6.8		135.4	244.7	
15.1 Bought (ICb)	0.0	32.1	0.2	0.6	0.0	8.0		3.4			4.7	0.0		49.0	12.4	2.6	0.0		4.4	2.0		21.5	70.5	
15.2 Own (ICmo)	2.8	16.6	0.0					8.5			1.2		1.6	30.8		1.9			107.0	4.9		113.8	144.6	
15.3 Work-in-progress used (WPu) (2.3 + 6.1 + 9.2)	4.5	16.5	0.0					4.7			3.9			29.6									29.6	
<b>16. Gross value added (GVA) (14 – 15)</b>	10.3	24.8	0.4	3.6	1.8	5.6		27.9		0.4	6.1	0.0		80.9	29.9	96.6	15.5	85.3	88.0	24.8	109.9	449.9	530.8	
16.1 Labour compensation (LC)	6.0	3.9	0.3	3.4	0.0	5.1		10.4		0.0	1.6	0.0		30.7	28.6	7.1	0.2		13.4	5.2		54.5	85.2	
16.2 Gross operating margin (GOM)	4.3	20.9	0.1	0.2	1.7	0.6		17.5		0.0	0.4	4.5	0.0		50.2	1.3	89.5	15.3	85.3	74.5	19.5	109.9	395.4	445.6
17. Consumption of fixed capital (CFC)	0.1	0.4		0.0	0.2	0.3		2.2		0.0		1.1	0.0		4.2	1.3	1.6	0.0	30.2	2.1	0.6	35.8	40.0	
<b>18. Net value added (NVA) (7 + 13 = 16 – 17)</b>	10.3	24.4	0.4	3.5	1.6	5.4		25.7		0.0	0.4	4.9	0.0		76.6	28.6	95.0	15.5	55.1	85.9	24.2	109.9	414.2	490.8
18.1 Labour compensation (LC)	6.0	3.9	0.3	3.4	0.0	5.1		10.4		0.0		1.6	0.0		30.7	28.6	7.1	0.2		13.4	5.2		54.5	85.2
18.2 Net operating margin (NOM)	4.3	20.5	0.1	0.1	1.5	0.3		15.3		0.0	0.4	3.4	0.0		45.9		87.9	15.3	55.1	72.4	19.0	109.9	359.7	405.6
18.2.1 Manufactured net operating margin (NOMm)	3.4	0.7	0.0	0.1	0.3	0.3		1.7		0.0	0.4	3.4	0.0		10.2	0.0	3.0	0.5	0.3	1.0	4.7		15.0	
18.2.2 Environmental net operating margin (NOME)	0.8	19.8	0.1	0.1	1.3			13.6							35.7		84.9	14.8	55.1	72.2	18.0	109.9	354.9	390.6
<b>19. Capital gain (CG)</b>	11.8	85.8	2.7	0.1	-0.5	-0.1		-2.3		0.0		-2.1	0.0	-239.2	-143.9	-3.6	4.9	0.5	-38.5	0.2	1.8	-34.7	-178.6	
19.1 Manufactured capital gain (CGm)	-0.2	-1.6		0.0	-0.4	-0.1		-1.6		0.0		-2.1	0.0		-6.0	-3.6	4.9	0.5	0.2	1.8		3.8	-2.2	
19.2 Environmental asset gain (EAg)	12.0	87.3	2.7	0.1	-0.1			-0.7						-239.2	-137.9				-38.5			-38.5	-176.3	
19.2.1 Environmental asset revaluation (EAr)	12.9	106.5	2.8	0.1	-0.1			0.0						-239.2	-117.0				44.3			44.3	-72.7	
19.2.2 Less adjustment to environmental asset (EAad)	0.8	19.2	0.1					-0.7							19.5				82.8			82.8	102.2	
<b>20. Total income (TI) (20.1 + 20.2.1 + 20.2.2)</b>	22.1	110.1	3.1	3.6	1.1	5.3		23.3		0.0	0.4	2.8	0.0	-239.2	-67.3	25.0	99.9	16.0	16.6	86.1	26.0	109.9	379.5	312.2
20.1 Labour compensation (LC)	6.0	3.9	0.3	3.4	0.0	5.1		10.4		0.0		1.6	0.0		30.7	28.6	7.1	0.2		13.4	5.2		54.5	85.2
20.2 Capital income (CI)	16.1	106.2	2.8	0.2	1.0	0.2		13.0		0.0	0.4	1.2	0.0	-239.2	-98.0	-3.6	92.8	15.8	16.6	72.7	20.8	109.9	325.0	227.0
20.2.1 Manufactured capital income (CIm)	3.2	-0.9	0.0	0.1	-0.1	0.2		0.0		0.0	0.4	1.2	0.0		4.2	-3.6	7.9	1.0	0.5	2.8		8.6	12.7	
20.2.2 Environmental income (EI) (20.2.2.1 + 20.2.2.2)	12.9	107.1	2.8	0.2	1.1			12.9						-239.2	-102.1		84.9	14.8	16.6	72.2	18.0	109.9	316.4	214.3
20.2.2.1 Ecosystem services (ES) (6)	4.5	16.5	0.0	0.1	1.3			13.0						35.3		84.9	14.8	85.3	72.2	18.0	109.9	385.1	420.4	
20.2.2.2 WP adjusted to CNWe (CNWead)	8.4	90.6	2.8	0.1	-0.1			-0.1						-239.2	-137.5				-68.6			-68.6	-206.1	
20.2.2.2.1 Change of environmental net worth (CNWe)	12.9	107.1	2.8	0.1	-0.1			4.6						-239.2	-111.8				-68.6			-68.6	-180.4	
20.2.2.2.2 Less environ. work-in-progress used (WPeu) (6.1)	4.5	16.5	0.0					4.7							25.7								25.7	
<b>21. Change of environmental net worth (CNWe)</b>	12.9	107.1	2.8	0.1	-0.1			4.6						-239.2	-111.8				-68.6			-68.6	-180.4	
21.1 Investment of environmental net operating margin (NOMEi) (12.2)	0.8	19.8	0.1					5.3							26.1				-30.2			-30.2	-4.1	
21.2 Environmental asset gain (EAg)	12.0	87.3	2.7	0.1	-0.1			-0.7						-239.2	-137.9				-38.5			-38.5	-176.3	

N: 5 estates with the presence of livestock species more than 6 months per year. Total area: 17,909 hectares; Average area: 3,582 hectares.

Table S8. Summary of production, income generation, accumulation and capital balance of AAS applied to publicly-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricul-tural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	Σ 14-20	Σ 1-20	
<b>1. Total product consumption (TPc<sub>sp</sub>)</b>	11.6	0.0	0.8	1.2	28.3	2.0	16.8		0.3	11.4	0.1	2.5	75.1	34.8	80.4	5.7	57.5	143.7	22.8	48.9	393.8	468.9	
1.1 Intermediate product (IP)	2.5	0.0		1.0	28.3		11.4				7.2		50.3	34.8								34.8	85.2
1.2 Final product consumption (FPc)	9.1	0.0	0.8	0.2		2.0	5.4		0.3	4.2	0.1	2.5	24.8		80.4	5.7	57.5	143.7	22.8	48.9	358.9	383.7	
2. Ordinary manufactured intermediate consumption (ICo)	4.8		0.2		14.5		6.3				7.7	0.0	2.5	36.0	10.8	4.4	0.0		77.4	1.5	94.1	130.1	
2.1 Bought (ICmob)	3.6		0.2		14.5		1.8				6.1	0.0		26.2	10.8	3.1	0.0		2.7	1.5	18.1	44.3	
2.2 Own (ICmo)	1.2						4.5				1.0		2.5	9.3		1.2			74.7		75.9	85.2	
2.3 Manufactured work-in-progress used (WPmuo)											0.6			0.6								0.6	
3. Ordinary labour compensation (LCo)	4.2		0.4		11.7	1.5	3.2				0.6	0.0		21.7	23.5	6.7	0.1		8.9	3.8	43.0	64.8	
3.1 Employee (LCe)	4.2		0.4		11.7	1.5	3.1				0.2			21.1	23.5	6.7	0.1		8.9	3.8	43.0	64.1	
3.2 Self-employed (LCse)											0.1			0.5	0.0		0.6					0.6	
4. Ordinary consumption of fixed capital (CFCmo)	0.1			0.0	0.9	0.0	0.7				1.4	0.0		3.1	0.6	1.2	0.0		2.2	0.7	4.7	7.8	
5. Ordinary manufactured net operating margin (NOMmo)	0.6		0.0	0.0	0.2	1.2	0.0	0.7		0.3	1.7	0.1		4.8		1.1	0.5		0.1	1.0	2.7	7.5	
6. Ecosystem services (ES <sub>ep</sub> ) (1 – 2 – 3 – 4 – 5)	1.9		0.2	0.9		0.4	5.9							9.4		67.0	5.0	57.5	55.0	15.8	48.9	249.3	258.7
6.1 Environmental work-in-progress used (WPeu)	1.9							1.5						3.4								3.4	
6.2 Ordinary environmental net operating margin (NOMEo)			0.2	0.9		0.4	4.5						6.0		67.0	5.0	57.5	55.0	15.8	48.9	249.3	255.3	
<b>7. Ordinary net value added (NV Ao) (1 – 2 – 4 – 6.1)</b>	4.8	0.0	0.6	1.2	12.9	2.0	8.4		0.3	2.4	0.1		32.6	23.5	74.8	5.6	57.5	64.1	20.6	48.9	295.0	327.6	
<b>8. Gross capital formation (GCF)</b>	5.8	0.0					2.5				1.7			10.1	3.2	3.2	0.0		1.7	0.7	8.8	18.8	
8.1 Manufactured (GCFm)							0.0				1.7			1.8	3.2	3.2	0.0		1.7	0.7	8.8	10.5	
8.2 Natural growth (NG)	5.8	0.0					2.5							8.3								8.3	
9. Investment manu. intermediate consumption (ICmi)							0.0				0.9			0.9	1.0	1.0	0.0		0.4	0.2	2.6	3.5	
9.1 Bought (ICmib)							0.0				0.4			0.4	1.0	1.0	0.0		0.4	0.2	2.6	3.0	
9.2 Investment work-in-progress used (WPmui)								0.0			0.5			0.5								0.5	
10. Investment labour compensation (LCi)							0.0				0.0			0.0	2.2	2.2	0.0		1.3	0.5	6.2	6.2	
10.1 Employee (LCe)							0.0				0.0			0.0	2.2	2.2	0.0		1.3	0.5	6.2	6.2	
10.2 Self-employed (LCse)							0.0				0.0			0.0								0.0	
11. Investment consumption of fixed capital (CFCi)																		25.4		25.4	25.4		
11.1 Consumption of fixed manufactured capital (CFCmi)																							
11.2 Consumption of fixed environmental asset (SSE)																		25.4		25.4	25.4		
12. Investment net operating margin (NOMi)	5.8	0.0					2.5				0.8			9.1	0.0		-25.4	0.0	0.0	-25.4	-16.3		
12.1 Manufactured (NOMmi)							0.0				0.8			0.8	0.0			0.0	0.0	0.0	0.8		
12.2 Environmental (NOMEi)	5.8	0.0					2.5							8.3			-25.4			-25.4	-17.1		
12.2.1 Natural growth (NG)	5.8	0.0					2.3							8.1							8.1		
12.2.2 Less carbon emission (SSE)																	-25.4		-25.4	-25.4			
<b>13. Investment net value added (NVAi) (8 – 9 – 11)</b>	5.8	0.0					2.5				0.9			9.2	2.2	2.2	0.0	-25.4	1.3	0.5	-19.2	-10.1	

Table S8. (cont) Summary of production, income generation, accumulation and capital balance of AAS applied to publicly-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20
<b>14. Total product (TP) (1 + 8)</b>	17.4	0.0	0.8	1.2	28.3	2.0	19.4	0.3	13.1	0.1	2.5	85.2	38.0	83.6	5.7	57.5	145.4	23.5	48.9	402.5	487.7		
15. Intermediate consumption (IC)	6.7		0.2		14.5		7.8		8.5	0.0	2.5	40.3	11.8	5.4	0.0	77.8	1.7			96.7	137.0		
15.1 Bought (ICb)	3.6		0.2		14.5		1.8		6.5	0.0		26.6	11.8	4.1	0.0	3.1	1.7			20.7	47.4		
15.2 Own (ICmo)	1.2						4.5		1.0		2.5	9.3			1.2						75.9	85.2	
15.3 Work-in-progress used (WPu) (2.3 + 6.1 + 9.2)	1.9						1.5		1.0			4.4										4.4	
<b>16. Gross value added (GVA) (14 – 15)</b>	10.6	0.0	0.6	1.2	13.7	2.0	11.6	0.3	4.6	0.1	44.9	26.3	78.2	5.7	57.5	67.6	21.8	48.9	305.9	350.7			
16.1 Labour compensation (LC)	4.2		0.4		11.7	1.5	3.3		0.7	0.0		21.8	25.7	8.9	0.1	10.2	4.3			49.2	71.0		
16.2 Gross operating margin (GOM)	6.5	0.0	0.2	1.2	2.0	0.5	8.4		0.3	3.9	0.1	23.1	0.6	69.3	5.6	57.5	57.4	17.5	48.9	256.7	279.8		
17. Consumption of fixed capital (CFC)	0.1				0.0	0.9	0.0	0.7		1.4	0.0		3.1	0.6	1.2	0.0	25.4	2.2	0.7		30.1	33.2	
<b>18. Net value added (NVA) (7 + 13 = 16 – 17)</b>	10.5	0.0	0.6	1.2	12.9	2.0	10.9	0.3	3.2	0.1	41.7	25.7	77.0	5.6	32.1	65.3	21.1	48.9	275.8	317.5			
18.1 Labour compensation (LC)	4.2		0.4		11.7	1.5	3.3		0.7	0.0		21.8	25.7	8.9	0.1	10.2	4.3			49.2	71.0		
18.2 Net operating margin (NOM)	6.4	0.0	0.2	1.2	1.2	0.5	7.6		0.3	2.5	0.1		20.0		68.1	5.6	32.1	55.1	16.8	48.9	226.6	246.5	
18.2.1 Manufactured net operating margin (NOMm)	0.6	0.0	0.0	0.2	1.2	0.0	0.7		0.3	2.5	0.1		5.6		1.1	0.5	0.1	1.0		2.7	8.3		
18.2.2 Environmental net operating margin (NOME)	5.8	0.0	0.2	0.9		0.4	7.0						14.3		67.0	5.0	32.1	55.0	15.8	48.9	223.9	238.2	
<b>19. Capital gain (CG)</b>	31.9	1.7	0.2	-0.1	-0.2	0.0	-1.0		0.0	-1.8	0.0	-178.8	-148.2	-2.3	-3.0	0.5	-8.9	0.5	2.3		-10.9	-159.1	
19.1 Manufactured capital gain (CGm)	-0.3	0.0		-0.1	-0.2	0.0	-0.2		0.0	-1.8	0.0		-2.7	-2.3	-3.0	0.5	0.5	2.3		-2.1	-4.7		
19.2 Environmental asset gain (EAg)	32.2	1.7	0.2	0.0			-0.8					-178.8	-145.5				-8.9			-8.9	-154.3		
19.2.1 Environmental asset revaluation (EAr)	37.8	1.8	0.2	0.0			0.0					-178.8	-139.0				46.9			46.9	-92.1		
19.2.2 Less adjustment to environmental asset (EAad)	5.6	0.0					-0.8						4.9				55.8			55.8	60.6		
<b>20. Total income (TI) (20.1 + 20.2.1 + 20.2.2)</b>	42.4	1.8	0.8	1.1	12.6	1.9	9.9	0.3	1.4	0.1	-178.8	-106.4	23.3	74.0	6.1	23.2	65.8	23.4	48.9	264.8	158.4		
20.1 Labour compensation (LC)	4.2		0.4		11.7	1.5	3.3		0.7	0.0		21.8	25.7	8.9	0.1	10.2	4.3			49.2	71.0		
<b>20.2 Capital income (CI)</b>	38.3	1.8	0.3	1.1	0.9	0.4	6.6		0.3	0.7	0.1	-178.8	-128.2	-2.3	65.1	6.0	23.2	55.6	19.1	48.9	215.7	87.4	
20.2.1 Manufactured capital income (CIm)	0.3	0.0	0.0	0.2	0.9	0.0	0.5		0.3	0.7	0.1			2.9	-1.9	1.0	0.6	3.3	0.6		3.6		
20.2.2 Environmental income (EI) (20.2.2.1 + 20.2.2.2)	38.0	1.8	0.3	1.0		0.4	6.2					-178.8	-131.1	67.0	5.0	23.2	55.0	15.8	48.9	215.0	83.9		
20.2.2.1 Ecosystem services (ES) (6)	1.9		0.2	0.9		0.4	5.9						9.4		67.0	5.0	57.5	55.0	15.8	48.9	249.3	258.7	
20.2.2.2 WPeu adjusted to CNWe (CNWead)	36.1	1.8	0.2	0.0			0.2					-178.8	-140.6				-34.3			-34.3	-174.8		
20.2.2.2.1 Change of environmental net worth (CNWe)	38.0	1.8	0.2	0.0			1.7					-178.8	-137.2				-34.3			-34.3	-171.4		
20.2.2.2.2 Less environ. work-in-progress used (WPeu) (6.1)	1.9						1.5						3.4								3.4		
<b>21. Change of environmental net worth (CNWe)</b>	38.0	1.8	0.2	0.0			1.7					-178.8	-137.2				-34.3			-34.3	-171.4		
21.1 Investment of environmental net operating margin (NOMEi) (12.2)	5.8	0.0					2.5						8.3			-25.4			-25.4	-17.1			
21.2 Environmental asset gain (EAg)	32.2	1.7	0.2	0.0			-0.8					-178.8	-145.5				-8.9			-8.9	-154.3		

N: 13 estates with the presence of livestock species more than 6 months per year. Total area: 53,923 hectares; Average area: 4,148 hectares.

Table S9. Summary of production, income generation, accumulation and capital balance of AAS applied to privately-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20	
<b>1. Total product consumption (TPc<sub>sp</sub>)</b>	25.3	0.3	20.8	28.7	0.7	41.0		14.1	62.0	12.5	356.8	562.3	28.3	9.9	13.5	56.9	55.1	5.3	12.8	181.7	744.0			
1.1 Intermediate product (IP)	24.8	0.1	8.4	28.7	0.7			11.1	38.9	12.5		164.1	28.3								28.3	192.4		
1.2 Final product consumption (FPc)	0.5	0.2	12.4					2.1		3.0	23.2		356.8	398.1		9.9	13.5	56.9	55.1	5.3	12.8	153.4	551.5	
2. Ordinary manufactured intermediate consumption (ICo)	19.8	0.1	3.4	12.4				22.4		0.9	44.5	2.2	126.2	231.8	9.5	1.7	0.1				49.5	1.1	61.8	293.7
2.1 Bought (ICmob)	19.7	0.1	3.4	12.4				7.7		0.9	15.2	1.7		61.1	9.5	0.9	0.1				1.5	1.1	13.1	74.2
2.2 Own (ICmo)	0.1							14.6			2.8		126.2	143.7		0.8					48.0		48.7	192.4
2.3 Manufactured work-in-progress used (WPmuo)											26.5	0.6		27.1									27.1	
3. Ordinary labour compensation (LCo)	4.6	0.2	3.8	1.2				11.6			17.1	5.1		43.6	18.0	1.9	0.1			3.5	2.5		26.0	69.6
3.1 Employee (LCe)	4.6	0.2	3.8	1.2				11.6			17.1	5.1		43.6	18.0	1.9	0.1			3.5	2.5		26.0	69.6
3.2 Self-employed (LCse)																								
4. Ordinary consumption of fixed capital (CFCmo)	0.3	0.0	9.6	1.7				3.8		11.6	10.6	1.7		39.3	0.8	1.1	0.0			2.1	0.5		4.5	43.8
5. Ordinary manufactured net operating margin (NOMmo)	0.2	0.0	1.4	0.6	0.7			1.6		1.5	-10.1	3.4		-0.7		0.4	0.5			0.0	0.8		1.7	1.0
6. Ecosystem services (ES <sub>ep</sub> ) (1 - 2 - 3 - 4 - 5)	0.4	0.0	2.6	12.8				1.7				230.6	248.2		4.9	12.7	56.9			0.5	12.8		87.7	335.9
6.1 Environmental work-in-progress used (WPeu)	0.4	0.0						0.4					0.8										0.8	
6.2 Ordinary environmental net operating margin (NOMEo)			2.6	12.8				1.3			230.6	247.4		4.9	12.7	56.9			0.5	12.8		87.7	335.1	
<b>7. Ordinary net value added (NV Ao) (1 - 2 - 4 - 6.1)</b>	4.8	0.2	7.7	14.6	0.7			14.5		1.5	7.0	8.5	230.6	290.3	18.0	7.1	13.3	56.9	3.5	3.7	12.8	115.4	405.7	
<b>8. Gross capital formation (GCF)</b>	0.1	0.0						8.7			54.6	0.6		64.0	1.8	0.1	0.2			0.7	1.2		4.0	68.0
8.1 Manufactured (GCFm)								0.5			54.6	0.6		55.7	1.8	0.1	0.2			0.7	1.2		4.0	59.7
8.2 Natural growth (NG)	0.1	0.0						8.1					8.3										8.3	
9. Investment manu. intermediate consumption (ICmi)								0.2			30.3			30.5	0.6	0.0	0.1			0.2	0.4		1.3	31.9
9.1 Bought (ICmib)								0.2			13.1			13.3	0.6	0.0	0.1			0.2	0.4		1.3	14.6
9.2 Investment work-in-progress used (WPmui)											17.3			17.3									17.3	
10. Investment labour compensation (LCi)								0.3			4.7			5.0	1.2	0.1	0.1			0.5	0.8		2.7	7.7
10.1 Employee (LCe)								0.3			4.7			5.0	1.2	0.1	0.1			0.5	0.8		2.7	7.7
10.2 Self-employed (LCse)																								
11. Investment consumption of fixed capital (CFCi)																			14.3			14.3	14.3	
11.1 Consumption of fixed manufactured capital (CFCmci)																			14.3			14.3	14.3	
11.2 Consumption of fixed environmental asset (SSE)																			14.3			14.3	14.3	
12. Investment net operating margin (NOMi)	0.1	0.0						8.1			19.6	0.6		28.4				-14.3		0.0	-14.3		14.2	
12.1 Manufactured (NOMmi)								0.0			19.6	0.6		20.2						0.0		0.0		20.2
12.2 Environmental (NOMEi)	0.1	0.0						8.1					8.3				-14.3			-14.3		-6.0		
12.2.1 Natural growth (NG)	0.1	0.0						6.5					6.6									6.6		
12.2.2 Less carbon emission (SSE)																	-14.3			-14.3		-14.3		
<b>13. Investment net value added (NV Ai) (8 - 9 - 11)</b>	0.1	0.0						8.5			24.3	0.6		33.5	1.2	0.1	0.1	-14.3		0.5	0.8		-11.6	21.9

Table S9. (cont) Summary of production, income generation, accumulation and capital balance of AAS applied to privately-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conser- forestry	Aromatic plants	Hunting	Commercial recreation	Resi- dential	Livestock	Agricul- tural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Land- scape	Bio- diversity	Water supply runoff	Govern- ment	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20	
<b>14. Total product (TP) (1 + 8)</b>	25.4	0.3	20.8	28.7	0.7			49.7		14.1	116.6	13.1	356.8	626.3	30.1	10.0	13.7	56.9	55.8	6.5	12.8	185.7	812.0	
15. Intermediate consumption (IC)	19.8	0.1	3.4	12.4				22.6		0.9	74.8	2.2	126.2	263.2	10.1	1.7	0.2	49.7	1.5		63.2	326.3		
15.1 Bought (ICb)	19.7	0.1	3.4	12.4				7.9		0.9	28.2	1.7		74.3	10.1	1.0	0.2		1.7	1.5		14.4	88.8	
15.2 Own (ICmo)	0.1							14.6			2.8		126.2	143.7		0.8			48.0			48.7	192.4	
15.3 Work-in-progress used (WPu) (2.3 + 6.1 + 9.2)	0.4	0.0						0.4			43.7	0.6		45.1									45.1	
<b>16. Gross value added (GVA) (14 – 15)</b>	5.3	0.2	17.4	16.3	0.7			26.7		13.2	41.8	10.9	230.6	363.1	20.0	8.3	13.5	56.9	6.1	5.0	12.8	122.6	485.7	
16.1 Labour compensation (LC)	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
16.2 Gross operating margin (GOM)	0.6	0.0	13.6	15.1	0.7			14.8		13.2	20.1	5.7	230.6	314.5	0.8	6.3	13.3	56.9	2.1	1.7	12.8	93.9	408.3	
17. Consumption of fixed capital (CFC)	0.3	0.0	9.6	1.7				3.8		11.6	10.6	1.7		39.3	0.8	1.1	0.0	14.3	2.1	0.5		18.8	58.1	
<b>18. Net value added (NVA) (7 + 13 = 16 – 17)</b>	5.0	0.2	7.7	14.6	0.7			23.0		1.5	31.3	9.1	230.6	323.8	19.2	7.2	13.4	42.7	4.0	4.5	12.8	103.8	427.6	
18.1 Labour compensation (LC)	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
18.2 Net operating margin (NOM)	0.3	0.0	4.0	13.4	0.7			11.0		1.5	9.5	4.0	230.6	275.1		5.2	13.2	42.7	0.0	1.3	12.8	75.1	350.2	
18.2.1 Manufactured net operating margin (NOMm)	0.2	0.0	1.4	0.6	0.7			1.6		1.5	9.5	4.0		19.5		0.4	0.5	0.0	0.0	0.8		1.7	21.1	
18.2.2 Environmental net operating margin (NOMe)	0.1	0.0	2.6	12.8				9.5					230.6	255.7		4.9	12.7	42.7	0.5	12.8	73.5	329.1		
<b>19. Capital gain (CG)</b>	3.8	0.0	-5.3	-0.7	-0.7			-9.7		-27.8	-12.3	-1.0	-161.0	-214.9	0.2	1.1	0.3	-47.6	0.9	1.6		-43.4	-258.3	
19.1 Manufactured capital gain (CGm)	-0.1	0.0	-5.7	-0.7	-0.7			-1.9		-27.8	-12.3	-1.0		-50.3	0.2	1.1	0.3		0.9	1.6		4.1	-46.2	
19.2 Environmental asset gain (EAg)	3.9	0.0	0.3					-7.7					-161.0	-164.5				-47.6			-47.6	-212.1		
19.2.1 Environmental asset revaluation (EAr)	4.0	0.0	0.3					0.9					-161.0	-155.8				7.7			7.7	-148.1		
19.2.2 Less adjustment to environmental asset (EAad)	0.1	0.0						-6.9						-6.8				55.3			55.3	48.5		
<b>20. Total income (TI) (20.1 + 20.2.1 + 20.2.2)</b>	8.7	0.2	2.4	13.9	-0.1			13.3		-26.3	18.9	8.1	69.6	108.9	19.4	8.3	13.7	-4.9	5.0	6.1	12.8	60.4	169.2	
20.1 Labour compensation (LC)	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
20.2 Capital income (CI)	4.1	0.0	-1.4	12.7	-0.1			1.3		-26.3	-2.8	3.0	69.6	60.3	0.2	6.3	13.5	-4.9	0.9	2.8	12.8	31.7	91.9	
20.2.1 Manufactured capital income (CIm)	0.1	0.0	-4.3	-0.1	-0.1			-0.4		-26.3	-2.8	3.0		-30.9	0.2	1.4	0.9	0.9	0.9	2.3		5.8	-25.1	
20.2.2 Environmental income (EI) (20.2.2.1 + 20.2.2.2)	4.0	0.0	2.9	12.8				1.7					69.6	91.1		4.9	12.7	-4.9	0.5	12.8	25.9	117.0		
20.2.2.1 Ecosystem services (ES) (6)	0.4	0.0	2.6	12.8				1.7					230.6	248.2		4.9	12.7	56.9	0.5	12.8	87.7	335.9		
20.2.2.2 WP adjusted to CNWe (CNWead)	3.6	0.0	0.3					0.0					-161.0	-157.1				-61.8			-61.8	-218.9		
20.2.2.2.1 Change of environmental net worth (CNWe)	4.0	0.0	0.3					0.4					-161.0	-156.2				-61.8			-61.8	-218.1		
20.2.2.2.2 Less environ. work-in-progress used (WPeu) (6.1)	0.4	0.0						0.4						0.8								0.8		
<b>21. Change of environmental net worth (CNWe)</b>	4.0	0.0	0.3					0.4					-161.0	-156.2				-61.8			-61.8	-218.1		
21.1 Investment of environmental net operating margin (NOMei) (12.2)	0.1	0.0						8.1						8.3			-14.3			-14.3	-6.0			
21.2 Environmental asset gain (EAg)	3.9	0.0	0.3					-7.7					-161.0	-164.5				-47.6			-47.6	-212.1		

N: 2 estates with the presence of livestock species more than 6 months per year. Total area: 970 hectares; Average area: 485 hectares.

Table S10. Production account by activity under AAS applied to privately-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agri-cultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20		
1. Total product (TP)	1.4	147.3	7.2		94.1	1.2		98.9	0.3	18.6	425.3	25.8	311.2	1,131.3	38.1	27.0	13.5	52.3	128.2	17.8	65.9	342.9	1,474.2		
1.1 Intermediate product (IP)	0.8	59.2	1.1		64.5	1.2		65.5		13.1	105.6	2.3		313.3		34.9						34.9	348.2		
Intermediate raw materials (IRM)		42.7			22.2			17.2			0.2	0.2			82.4								82.4		
<i>Woody (IRMw)</i>		42.7														42.7								42.7	
<i>Grass and browse (IRMg)</i>					13.8								0.0			13.8								13.8	
<i>Acorn (IRMa)</i>					8.4											8.4								8.4	
<i>Others (IRMo)</i>								17.2			0.2	0.2			17.6									17.6	
Intermediate services (ISS)	0.8	16.5	1.1		42.3	1.2		48.3		13.1	105.4	2.1		230.8		34.9							34.9	265.7	
<i>Commercial (ISSc)</i>					0.9					13.1					14.1		34.9							34.9	49.0
<i>Non-commercial (ISSnc)</i>	0.8	16.5	1.1		42.3	0.3		48.3			105.4	2.1			216.8									216.8	
Compensated (ISSncc)					0.8			0.0			35.0	2.1			37.9									37.9	
Auto-consumed (ISSnca)	0.8	16.5	1.1		41.5	0.3		48.3			70.4				178.9									178.9	
<i>Donated (ISSncl)</i>																									
1.2 Final product (FP)	0.6	88.1	6.1		29.6			33.4	0.3	5.5	319.7	23.6	311.2	818.1	3.2	27.0	13.5	52.3	128.2	17.8	65.9	308.0	1,126.0		
Sales (FPs)		63.2	5.4		0.4			15.1	0.3		131.6	21.9			237.9									237.9	
Gross fixed capital formation (GFCF)	0.5				29.2			1.9		1.4	34.8				67.7	3.2	0.8	0.1		1.8	1.0		6.9	74.7	
Gross work-in-progress formation (GWPF)	0.1	24.9	0.3		0.0			9.2			151.9	1.6			188.1									188.1	
Autoconsumption (FPa)					0.4			3.0			1.4	0.0	311.2	316.0										316.0	
Other final product (FPO)								4.2		4.2					8.4									8.4	
2. Total cost (TC)	0.7	117.6	4.1		42.0	1.0		66.9	0.9	22.1	394.9	17.7	192.0	860.0	38.1	8.6	0.2	14.9	84.0	6.2		152.0	1,012.0		
2.1. Intermediate consumption (IC)	0.1	99.9	1.8		24.9	0.3		45.4		1.8	333.0	7.8	192.0	707.2	11.8	3.1	0.1	75.0	1.9			91.8	799.0		
Raw materials (RM)	0.1	45.3	0.4		3.1	0.1		27.9		0.4	122.2	3.2			202.6	0.1	0.1	0.0	0.1	0.0	0.0		0.2	202.8	
<i>Bought (RMb)</i>	0.1	2.7	0.4		3.1	0.1		7.8		0.4	102.4	3.2			120.1	0.1	0.1	0.0	0.1	0.0	0.0		0.2	120.3	
<i>Own (RMo)</i>		42.7	0.0					20.1			19.8				82.5									82.5	
Services (SS)	0.1	12.8	0.2		21.8	0.2		6.8		1.5	21.8	3.2	192.0	260.2	11.7	3.1	0.1	74.9	1.8			91.6	351.8		
<i>Bought (SSb)</i>	0.1	12.8	0.2		21.8	0.2		6.8		1.5	21.8	3.2			68.2	11.7	1.7	0.1	2.6	1.8			17.9	86.1	
<i>Own (SSo)</i>													192.0	192.0		1.4		72.3	0.0				73.7	265.7	
<i>Environmental (SSe)</i>																									
Work-in-progress used (WPu)		41.9	1.3					10.8			189.0	1.4			244.4									244.4	
2.2 Labour compensation (LC)	0.4	16.1	2.1		14.1	0.7		14.5	0.0	6.9	45.2	6.4			106.5	25.1	4.2	0.1	6.7	3.9		40.1	146.6		
Employees (LCe)	0.4	16.1	1.4		14.1	0.7		14.3	0.0	6.8	44.4	6.4			104.7	25.1	4.2	0.1	6.7	3.9		40.1	144.8		
Self-employed (LCse)					0.7			0.2		0.1	0.8				1.8									1.8	
2.3 Consumption of fixed capital (CFC)	0.2	1.5	0.1		2.9	0.0		6.9	0.9	13.4	16.7	3.4		46.3	1.2	1.3	0.0	14.9	2.3	0.4		20.1	66.4		
3. Net operating margin (NOM)	0.7	29.7	3.1		52.1	0.2		32.0	-0.7	-3.5	30.3	8.2	119.1	271.3		18.4	13.2	37.5	44.3	11.6	65.9	190.9	462.2		
4. Gross valued added (GVA)	1.3	47.4	5.3		69.2	1.0		53.5	0.3	16.8	92.3	18.0	119.1	424.1	26.3	23.9	13.4	52.3	53.3	15.9	65.9	251.1	675.2		
5. Net valued added (NVA)	1.1	45.8	5.2		66.2	0.9		46.5	-0.6	3.4	75.6	14.6	119.1	377.9	25.1	22.6	13.4	37.5	51.0	15.5	65.9	230.9	608.8		

N: 21 estates with the presence of livestock species more than 6 months per year.

Total area: 15,372 hectares; Average area: 732 hectares.

Table S11. Production account by activity under AAS applied to publicly-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	$\Sigma 1-13$	14	15	16	17	18	19	20	$\Sigma 14-20$	$\Sigma 1-20$	
1. Total product (TP)	17.6	89.9	0.6	4.1	1.8	13.7		44.6		0.4	15.9		1.6	190.2	42.3	101.1	15.6	85.3	199.5	31.6	109.9	585.3	775.5	
1.1 Intermediate product (IP)	2.9	47.6	0.4	4.1	1.7	13.7		29.7			5.1			105.2	39.4							39.4	144.6	
Intermediate raw materials (IRM)	2.8	16.6			1.5			8.3			0.0			29.2									29.2	
<i>Woody (IRMw)</i>	2.8	16.6												19.4										19.4
<i>Grass and browse (IRMg)</i>					1.4									1.4										1.4
<i>Acorn (IRMa)</i>					0.1									0.1										0.1
<i>Others (IRMo)</i>								8.3			0.0			8.3										8.3
Intermediate services (ISS)	0.1	31.0	0.4	4.1	0.2	13.7		21.4			5.1			76.0	39.4								39.4	115.4
<i>Commercial (ISSc)</i>						13.4								13.4	39.4								39.4	52.8
<i>Non-commercial (ISSnc)</i>	0.1	31.0	0.4	4.1	0.2	0.3		21.4			5.1			62.7										62.7
Compensated (ISSncc)								0.0			3.5			3.6										3.6
Auto-consumed (ISSnca)											1.6			1.6										1.6
<i>Donated (ISSncl)</i>	0.1	31.0	0.4	4.1	0.2	0.3		21.4						57.5										57.5
1.2 Final product (FP)	14.8	42.3	0.2	0.0	0.1			14.8		0.4	10.7		1.6	85.0	2.9	101.1	15.6	85.3	199.5	31.6	109.9	545.9	630.9	
Sales (PPs)	13.9	22.6	0.0	0.0	0.1			4.4			4.9			45.9										45.9
Gross fixed capital formation (GFCF)								0.9			1.0			1.9		2.9	1.8	0.0		3.4	1.3		9.4	11.3
Gross work-in-progress formation (GWPF)	0.8	19.8	0.1					4.5			4.6			29.8										29.8
Autoconsumption (FPa)			0.0					4.5			0.4			1.6	6.5									6.5
Other final product (Fpo)					0.5				0.4					0.9										0.9
2. Total cost (TC)	13.4	69.4	0.5	4.0	0.2	13.4		29.2	0.0		12.5	0.0	1.6	144.3	42.3	13.2	0.3	30.2	127.0	12.6	225.6	369.9		
2.1. Intermediate consumption (IC)	7.3	65.1	0.2	0.6	0.0	8.0		16.7			9.8	0.0	1.6	109.3	12.4	4.6	0.0	111.5	6.8	135.4	244.7			
Raw materials (RM)	2.8	16.6	0.0		0.0	0.2		9.8			4.5	0.0		33.9	0.1	0.1	0.0	0.2	0.0	0.2	0.0	0.5	34.4	
<i>Bought (RMb)</i>	0.0				0.0	0.2		1.2			3.3	0.0		4.7	0.1	0.1	0.0	0.2	0.0	0.2	0.0	0.5	5.2	
<i>Own (RMo)</i>	2.8	16.6	0.0					8.5			1.2			29.2										29.2
Services (SS)	0.0	32.1	0.2	0.6	0.0	7.9		2.2			1.4			45.9	12.3	4.4	0.0	111.3	6.8	134.9	180.7			
<i>Bought (SSb)</i>	0.0	32.1	0.2	0.6	0.0	7.9		2.2			1.4			44.3	12.3	2.5	0.0	4.2	1.9	21.0	65.3			
<i>Own (SSo)</i>														1.6	1.6		1.9		107.0	4.9	113.8	115.4		
<i>Environmental (SSe)</i>																								
Work-in-progress used (WPu)	4.5	16.5	0.0					4.7			3.9			29.6										29.6
2.2 Labour compensation (LC)	6.0	3.9	0.3	3.4	0.0	5.1		10.4	0.0		1.6	0.0		30.7	28.6	7.1	0.2	13.4	5.2	54.5	85.2			
Employees (LCe)	6.0	3.9	0.3	3.4	0.0	5.1		10.1	0.0		0.7	0.0		29.6	28.6	7.1	0.2	13.4	5.2	54.5	84.1			
Self-employed (LCse)								0.2			0.9			1.1										1.1
2.3 Consumption of fixed capital (CFC)	0.1	0.4		0.0	0.2	0.3		2.2	0.0		1.1	0.0		4.2	1.3	1.6	0.0	30.2	2.1	0.6	35.8	40.0		
3. Net operating margin (NOM)	4.3	20.5	0.1	0.1	1.5	0.3		15.3	0.0	0.4	3.4	0.0		45.9		87.9	15.3	55.1	72.4	19.0	109.9	359.7	405.6	
4. Gross valued added (GVA)	10.3	24.8	0.4	3.6	1.8	5.6		27.9		0.4	6.1	0.0		80.9	29.9	96.6	15.5	85.3	88.0	24.8	109.9	449.9	530.8	
5. Net valued added (NVA)	10.3	24.4	0.4	3.5	1.6	5.4		25.7	0.0	0.4	4.9	0.0		76.6	28.6	95.0	15.5	55.1	85.9	24.2	109.9	414.2	490.8	

N: 5 estates with the presence of livestock species more than 6 months per year.

Total area: 17,909 hectares; Average area: 3,582 hectares.

Table S12. Production account by activity under AAS applied to privately-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conser. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agri-cultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Land-scape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20	
1. Total product (TP)	25.4		0.3	20.8	28.7	0.7		49.7		14.1	116.6	13.1	356.8	626.3	30.1	10.0	13.7	56.9	55.8	6.5	12.8	185.7	812.0	
1.1 Intermediate product (IP)	24.8		0.1	8.4	28.7	0.7		38.9		11.1	38.9	12.5		164.1	28.3							28.3	192.4	
Intermediate raw materials (IRM)	0.1				15.2			1.3			0.9					17.6								17.6
<i>Woody (IRMw)</i>	0.1															0.1								0.1
<i>Grass and browse (IRMg)</i>					15.2											15.2								15.2
<i>Acorn (IRMa)</i>																								
<i>Others (IRMo)</i>																								2.2
Intermediate services (ISS)	24.7		0.1	8.4	13.5	0.7		37.6		11.1	38.0	12.5		146.6	28.3							28.3	174.9	
<i>Commercial (ISSc)</i>										11.1					11.1	28.3							28.3	39.4
<i>Non-commercial (ISSnc)</i>	24.7		0.1	8.4	13.5	0.7		37.6			38.0	12.5			135.5									135.5
Compensated (ISSncc)								0.0			7.9	12.5			20.4									20.4
Auto-consumed (ISSnca)	24.7		0.1	8.4	13.5	0.7		37.6			30.0				115.1									115.1
<i>Donated (ISSndc)</i>																								
1.2 Final product (FP)	0.6		0.2	12.4				10.7		3.0	77.8	0.6	356.8	462.1	1.8	10.0	13.7	56.9	55.8	6.5	12.8	157.4	619.6	
Sales (FPs)	0.5			12.4							22.8			35.7										35.7
Gross fixed capital formation (GFCF)								2.2			17.8				19.9	1.8	0.1	0.2		0.7	1.2		4.0	24.0
Gross work-in-progress formation (GWPF)	0.1		0.0					6.5			36.8	0.6			44.1									44.1
Autoconsumption (FPa)			0.2					1.5			0.3		356.8	358.8										358.8
Other final product (Fpo)								0.6		3.0				3.6										3.6
2. Total cost (TC)	25.1		0.3	16.8	15.3			38.7		12.6	107.1	9.1	126.2	351.2	30.1	4.8	0.4	14.3	55.8	5.2	110.6	461.8		
2.1. Intermediate consumption (IC)	20.2		0.1	3.4	12.4			23.0		0.9	74.8	2.2	126.2	263.2	10.1	1.7	0.2	49.7	1.5	63.2	326.3			
Raw materials (RM)	5.2		0.1	0.9	0.7			20.4		0.4	23.4	1.3		52.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	52.4	
<i>Bought (RMb)</i>	5.1		0.1	0.9	0.7			5.7		0.4	20.5	1.3		34.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	34.8	
<i>Own (RMo)</i>	0.1							14.6			2.8			17.6									17.6	
Services (SS)	14.6		0.0	2.5	11.7			2.2		0.5	7.7	0.4	126.2	165.8	10.0	1.7	0.2	49.6	1.5	63.1	228.8			
<i>Bought (SSb)</i>	14.6		0.0	2.5	11.7			2.2		0.5	7.7	0.4		39.6	10.0	1.0	0.2	1.7	1.5	14.3	54.0			
<i>Own (SSo)</i>													126.2	126.2		0.8		48.0		48.7	174.9			
<i>Environmental (SSe)</i>																								
Work-in-progress used (WPu)	0.4		0.0					0.4			43.7	0.6		45.1									45.1	
2.2 Labour compensation (LC)	4.6		0.2	3.8	1.2			11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
Employees (LCe)	4.6		0.2	3.8	1.2			11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
Self-employed (LCse)																								
2.3 Consumption of fixed capital (CFC)	0.3		0.0	9.6	1.7			3.8		11.6	10.6	1.7		39.3	0.8	1.1	0.0	14.3	2.1	0.5	18.8	58.1		
3. Net operating margin (NOM)	0.3		0.0	4.0	13.4	0.7		11.0		1.5	9.5	4.0	230.6	275.1		5.2	13.2	42.7	0.0	1.3	12.8	75.1	350.2	
4. Gross valued added (GVA)	5.3		0.2	17.4	16.3	0.7		26.7		13.2	41.8	10.9	230.6	363.1	20.0	8.3	13.5	56.9	6.1	5.0	12.8	122.6	485.7	
5. Net valued added (NVA)	5.0		0.2	7.7	14.6	0.7		23.0		1.5	31.3	9.1	230.6	323.8	19.2	7.2	13.4	42.7	4.0	4.5	12.8	103.8	427.6	

N: 2 estates with the presence of livestock species more than 6 months per year.

Total area: 970 hectares; Average area: 485 hectares.

Table S13. Production account by activity under AAS applied to publicly-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agricultural crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water supply runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	$\Sigma 1-13$	14	15	16	17	18	19	20	$\Sigma 14-20$	$\Sigma 1-20$	
1. Total product (TP)	17.4		0.0	0.8	1.2	28.3	2.0	19.4		0.3	13.1	0.1	2.5	85.2	38.0	83.6	5.7	57.5	145.4	23.5	48.9	402.5	487.7	
1.1 Intermediate product (IP)	2.5		0.0		1.0	28.3		11.4			7.2			50.3	34.8							34.8	85.2	
Intermediate raw materials (IRM)	1.2				0.9				4.5			0.1				6.7							6.7	
<i>Woody (IRMw)</i>	1.2															1.2							1.2	
<i>Grass and browse (IRMg)</i>					0.9											0.9							0.9	
<i>Acorn (IRMa)</i>					0.1											0.1							0.1	
<i>Others (IRMo)</i>																							4.6	
Intermediate services (ISS)	1.3		0.0		0.1	28.3	0.1	6.9			7.1			43.7	34.8							34.8	78.5	
<i>Commercial (ISSc)</i>						27.1									27.1	34.8						34.8	62.0	
<i>Non-commercial (ISSnc)</i>	1.3		0.0		0.1	1.2	0.1	6.9			7.1			16.6									16.6	
Compensated (ISSncc)								0.0				4.5			4.5								4.5	
Auto-consumed (ISSnca)											2.5			2.5									2.5	
Donated (ISSncl)	1.3		0.0		0.1	1.2	0.1	6.9						9.5									9.5	
1.2 Final product (FP)	14.9		0.0	0.8	0.2		1.9	8.0		0.3	6.0	0.1	2.5	34.8	3.2	83.6	5.7	57.5	145.4	23.5	48.9	367.7	402.5	
Sales (PPs)	9.1			0.8	0.1		1.9	2.8			4.2	0.1		19.1									19.1	
Gross fixed capital formation (GFCF)								0.2			0.5			0.7	3.2	3.2	0.0			1.7	0.7		8.8	9.5
Gross work-in-progress formation (GWPF)	5.8		0.0					2.3			1.3			9.4									9.4	
Autoconsumption (FPa)								2.6			0.0	0.0	2.5	5.2									5.2	
Other final product (FPo)					0.1		0.1		0.3					0.5									0.5	
2. Total cost (TC)	11.0		0.7	0.0	27.1	1.5	11.7				10.6	0.0	2.5	65.2	38.0	15.5	0.1	25.4	90.3	6.7		176.0	241.2	
2.1. Intermediate consumption (IC)	6.7		0.2		14.5		7.8				8.5	0.0	2.5	40.3	11.8	5.4	0.0		77.8	1.7		96.7	137.0	
Raw materials (RM)	1.7		0.1		1.7		4.7				6.8	0.0		15.0	0.1	0.1	0.0	0.2	0.0	0.0	0.2	0.0	15.3	
<i>Bought (RMb)</i>	0.5		0.1		1.7		0.2				5.8	0.0		8.3	0.1	0.1	0.0	0.2	0.0	0.0	0.2	0.0	8.6	
<i>Own (RMo)</i>	1.2						4.5				1.0			6.7									6.7	
Services (SS)	3.1		0.2		12.8		1.6				0.8		2.5	21.0	11.7	5.3	0.0		77.7	1.6		96.3	117.3	
<i>Bought (SSb)</i>	3.1		0.2		12.8		1.6				0.7			18.4	11.7	4.0	0.0	3.0	1.6		20.4	38.7		
<i>Own (SSo)</i>											0.0		2.5	2.6		1.2		74.7			75.9	78.5		
<i>Environmental (SSe)</i>																								
Work-in-progress used (WPu)	1.9						1.5				1.0			4.4									4.4	
2.2 Labour compensation (LC)	4.2		0.4		11.7	1.5	3.3				0.7	0.0		21.8	25.7	8.9	0.1	10.2	4.3		49.2	71.0		
Employees (LCe)	4.2		0.4		11.7	1.5	3.1				0.2			21.1	25.7	8.9	0.1	10.2	4.3		49.2	70.3		
Self-employed (LCse)							0.1				0.5	0.0		0.7									0.7	
2.3 Consumption of fixed capital (CFC)	0.1			0.0	0.9	0.0	0.7				1.4	0.0		3.1	0.6	1.2	0.0	25.4	2.2	0.7		30.1	33.2	
3. Net operating margin (NOM)	6.4		0.0	0.2	1.2	1.2	0.5	7.6		0.3	2.5	0.1		20.0		68.1	5.6	32.1	55.1	16.8	48.9	226.6	246.5	
4. Gross valued added (GVA)	10.6		0.0	0.6	1.2	13.7	2.0	11.6		0.3	4.6	0.1		44.9	26.3	78.2	5.7	57.5	67.6	21.8	48.9	305.9	350.7	
5. Net valued added (NVA)	10.5		0.0	0.6	1.2	12.9	2.0	10.9		0.3	3.2	0.1		41.7	25.7	77.0	5.6	32.1	65.3	21.1	48.9	275.8	317.5	

N: 13 estates with the presence of livestock species more than 6 months per year.

Total area: 53,923 hectares; Average area: 4,148 hectares.

Table S14. Summary of production, income generation, accumulation and capital balance of rSNA applied to privately-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agric. crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Land-scape	Bio-diversity	Water sup.runoff	Government	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20
<b>1. Total product consumption (TP<sub>bp</sub>)</b>	63.2	5.8		23.3	0.9		39.6	0.3	17.3	168.0	24.0	13.1	355.6	34.9	7.8	13.4		82.2	5.1	56.0	199.5	555.1	
1.1 Intermediate product (IP <sub>bp</sub> )				22.9	0.9		17.2		13.1	35.0	2.1		91.4	34.9								34.9	126.3
1.1.1 Raw materials (IRM <sub>g</sub> )				22.2			17.2				0.0			39.4									39.4
1.1.1.1 Grass and browse (IRM <sub>gb</sub> )				13.8							0.0			13.8									13.8
1.1.1.2. Acorn (IRM <sub>a</sub> )				8.4				17.2						25.7									25.7
1.1.2 Services (ISS)				0.8	0.9		0.0		13.1	35.0	2.1		51.9	34.9								34.9	86.8
1.1.2.1 Commercial (ISS <sub>c</sub> )					0.9				13.1				14.1	34.9								34.9	49.0
1.1.2.2 Compensated (ISS <sub>ncc</sub> )					0.8			0.0			35.0	2.1		37.9									37.9
1.2 Final product consumed (FPC <sub>bp</sub> )	63.2	5.8		0.4			22.3	0.3	4.2	133.0	21.9	13.1	264.2		7.8	13.4		82.2	5.1	56.0	164.6	428.8	
2. Ordinary manu. intermediate consumption (IC <sub>o</sub> )	0.0	15.4	0.6	6.3	0.3		34.6		1.5	119.6	6.4	13.1	197.7	10.8	2.9	0.1		74.5	1.5		89.7	287.4	
2.1 Bought (IC <sub>mob</sub> )	0.0	15.4	0.6	6.3	0.3		14.5		1.5	100.2	6.4		145.2	10.8	1.5			2.2	1.5		16.0	161.1	
2.2 Own (IC <sub>mo</sub> )								20.1			19.4		13.1	52.6		1.4		72.3	0.0		73.7	126.3	
3. Revised ordinary labour compensation (LC <sub>or</sub> )	0.0	16.1	2.1	3.5	0.7		14.4	0.0	5.8	34.4	6.4		83.6	22.9	3.6	0.1		5.5	3.1		35.2	118.9	
3.1 Employee (LC <sub>eor</sub> )	0.0	16.1	1.4	3.5	0.7		14.2	0.0	5.8	33.6	6.4		81.9	22.9	3.6	0.1		5.5	3.1		35.2	117.1	
3.2 Self-employed (LC <sub>seor</sub> )			0.7					0.2		0.1	0.8			1.8								1.8	
4. Ordinary consumption of manu. fixed capital (CFC <sub>mo</sub> )	0.2	1.5	0.1	2.9	0.0		6.9	0.9	13.4	16.7	3.4		46.3	1.2	1.3	0.0		2.3	0.4		5.3	51.5	
5. Revised ordinary manu. net operating surplus (NOS <sub>mor</sub> )	-0.2	-11.7	1.8	-1.7	-0.1		-44.4	-0.7	-3.5	-2.7	7.8		-55.4	0.0	0.0	0.5		0.0	0.0		0.5	-54.9	
6. Ecosystem services (ES <sub>bp</sub> )	41.9	1.3		12.3			28.0						83.4				12.7				56.0	68.7	152.1
6.1. Environmental work-in-progress used (WPeu)	41.9	1.3					10.8						53.9									56.0	53.9
6.2. Revised environmental net operating surplus (NOSeor)				12.3			17.2						29.5				12.7				56.0	68.7	98.2
<b>7. Revised ordinary net value added (NVA<sub>or</sub>)</b>	-0.2	46.3	5.1	14.1	0.6		-1.9	-0.6	2.3	31.7	14.2		111.6	22.9	3.6	13.3		5.5	3.1	56.0	104.5	216.1	
<b>8. Manufactured gross capital formation (GCF<sub>m</sub>)</b>	0.5			29.2			0.2		1.4	-48.8	1.6		-15.9	3.2	0.8	0.1		1.8	1.0		6.9	-9.0	
9. Bought investment manu. intermediate consumption (IC <sub>mib</sub> )	0.1			18.7			0.1		0.3	24.0			43.1	1.0	0.2	0.0		0.5	0.3		2.1	45.2	
10. Revised investment labour compensation (LC <sub>cir</sub> )	0.4			10.6			0.1		1.1	10.8			22.9	2.2	0.6	0.0		1.3	0.7		4.8	27.7	
10.1 Employee (LC <sub>ei</sub> )	0.4			10.6			0.1		1.1	10.8			22.9	2.2	0.6	0.0		1.3	0.7		4.8	27.7	
10.2 Self-employed (LC <sub>seir</sub> )							0.0		0.0	0.0			0.1									0.1	
11. Investment consumption of manu. fixed capital (CFC <sub>mi</sub> )																							
12. Revised investment manu. net operating surplus (NOS <sub>mir</sub> )	0.0			0.0			0.0		0.0	-83.6	1.6		-82.0		0.0		0.0		0.0		0.0	-82.0	
<b>13. Revised investment manu. net value added (NVA<sub>mir</sub>)</b>	0.4			10.6			0.1		1.1	-72.8	1.6		-59.0	2.2	0.6	0.0		1.3	0.7		4.8	-54.2	
<b>14. Total product (TP<sub>bp</sub>)</b>	0.5	63.2	5.8	52.5	0.9		39.7	0.3	18.6	119.2	25.7	13.1	339.7	38.1	8.6	13.5		84.0	6.2	56.0	206.4	546.1	
15. Revised intermediate consumption (IC <sub>r</sub> )	0.1	15.4	0.6	24.9	0.3		34.7		1.8	143.6	6.4	13.1	240.8	11.8	3.1	0.1		75.0	1.9		91.8	332.7	
15.1 Bought (IC <sub>b</sub> )	0.1	15.4	0.6	24.9	0.3		14.6		1.8	124.2	6.4		188.3	11.8	1.7	0.1		2.7	1.8		18.1	206.4	
15.2 Own (IC <sub>o</sub> )							20.1				19.4		13.1	52.6		1.4		72.3	0.0		73.7	126.3	
15.3 Environmental work-in-progress used (WPeu)	41.9	1.3					10.8						53.9									53.9	
16. Revised labour compensation (LC <sub>r</sub> )	0.4	16.1	2.1	14.1	0.7		14.5	0.0	6.9	45.2	6.4		106.5	25.1	4.2	0.1		6.7	3.9		40.1	146.6	
16.1 Employee (LC <sub>e</sub> )	0.4	16.1	1.4	14.1	0.7		14.3	0.0	6.8	44.4	6.4		104.7	25.1	4.2	0.1		6.7	3.9		40.1	144.8	
16.2 Self-employed (LC <sub>ser</sub> )			0.7				0.2		0.1	0.8			1.8									1.8	
17. Consumption of manu. fixed capital (CFC <sub>m</sub> )	0.2	1.5	0.1	2.9	0.0		6.9	0.9	13.4	16.7	3.4		46.3	1.2	1.3	0.0		2.3	0.4		5.3	51.5	
18. Revised net operating surplus (NOS <sub>bp</sub> )	-0.2	30.1	3.0	10.6	-0.1		-16.4	-0.7	-3.5	-86.3	9.4		-54.0	0.0	0.0	0.0		13.2	0.0	0.0	56.0	69.2	15.3
18.1 Revised manufactured net operating surplus (NOS <sub>mr</sub> )	-0.2	-11.7	1.8	-1.7	-0.1		-44.4	-0.7	-3.5	-86.3	9.4		-137.4	0.0	0.0	0.5		0.0	0.0	0.0	0.5	-136.8	
18.2 Ecosystem services (ES <sub>bp</sub> )	41.9	1.3		12.3			28.0						83.4				12.7				56.0	68.7	152.1
<b>19. Net value added (NVA<sub>bp</sub>)</b>	0.2	46.3	5.1	24.7	0.6		-1.9	-0.6	3.4	-41.1	15.9		52.6	25.1	4.2	13.4		6.7	3.9	56.0	109.3	161.9	
19.1 Revised labour compensation (LC <sub>r</sub> )	0.4	16.1	2.1	14.1	0.7		14.5	0.0	6.9	45.2	6.4		106.5	25.1	4.2	0.1		6.7	3.9		40.1	146.6	
19.1.1 Employee (LC <sub>e</sub> )	0.4	16.1	1.4	14.1	0.7		14.3	0.0	6.8	44.4	6.4		104.7	25.1	4.2	0.1		6.7	3.9		40.1	144.8	
19.1.2 Self-employed (LC <sub>ser</sub> )			0.7				0.2		0.1	0.8			1.8									1.8	
19.2 Revised net operating surplus (NOS <sub>bp</sub> )	-0.2	30.1	3.0	10.6	-0.1		-16.4	-0.7	-3.5	-86.3	9.4		-54.0	0.0	0.0	0.0		13.2	0.0	0.0	56.0	69.2	15.3
<b>20. Gross value added (GVA<sub>bp</sub>)</b>	0.4	47.8	5.3	27.6	0.7		5.1	0.3	16.8	-24.4	19.3		98.8	26.3	5.5	13.4		9.0	4.3	56.0	114.6	213.4	
<b>21. Revised gross operating surplus (GOS<sub>bp</sub>)</b>	0.0	31.7	3.2	13.5	0.0		-9.5	0.2	9.9	-69.6	12.9		-7.7	1.2	1.3	13.3		2.3	0.4	56.0	74.5	66.8	
<b>22. Ecosystem services (ES<sub>bp</sub>)</b>	41.9	1.3		12.3			28.0						83.4				12.7				56.0	68.7	152.1

N: 21 estates with the presence of livestock species more than 6 months per year. Total area: 15,372 hectares; Average area: 732 hectares.

Table S15. Summary of production, income generation, accumulation and capital balance of rSNA applied to publicly-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agric. crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Land-scape	Bio-diversity	Water sup.runoff	Government	Total		
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20		
<b>1. Total product consumption (TP<sub>bp</sub>)</b>	13.9	22.6	0.1	0.0	1.6	13.4		17.7		0.4	8.8		78.4	39.4	11.5	15.5		66.1	11.3	93.5	237.2	315.7			
1.1 Intermediate product (IP <sub>bp</sub> )					1.5	13.4		8.3			3.5		26.7	39.4								39.4	66.1		
1.1.1 Raw materials (IRM <sub>g</sub> )					1.5			8.3						9.8									9.8		
1.1.1.1 Grass and browse (IRM <sub>gb</sub> )					1.4									1.4										1.4	
1.1.1.2. Acorn (IRM <sub>a</sub> )					0.1			8.3						8.4										8.4	
1.1.2 Services (ISS)						13.4		0.0			3.5		16.9	39.4									39.4	56.3	
1.1.2.1 Commercial (ISS <sub>c</sub> )						13.4							13.4	39.4									39.4	52.8	
1.1.2.2 Compensated (ISS <sub>ncc</sub> )								0.0			3.5			3.6										3.6	
1.2 Final product consumed (FPC <sub>bp</sub> )	13.9	22.6	0.1	0.0	0.1			9.4		0.4	5.2		51.8		11.5	15.5		66.1	11.3	93.5	197.8	249.6			
2. Ordinary manu. intermediate consumption (IC <sub>o</sub> )	0.0	32.1	0.2	0.6	0.0	8.0		11.9			5.3	0.0	58.1	11.5	4.1	0.0		53.1	6.5		75.2	133.4			
2.1 Bought (IC <sub>mob</sub> )	0.0	32.1	0.2	0.6	0.0	8.0		3.4			4.1	0.0	48.4	11.5	2.2	0.0		3.6	1.6		18.9	67.3			
2.2 Own (IC <sub>mo</sub> )								8.5			1.2		9.8		1.9			49.5	4.9		56.3	66.1			
3. Revised ordinary labour compensation (LC <sub>or</sub> )	6.0	3.9	0.3	3.4	0.0	5.1		10.3	0.0		1.2	0.0	30.3	26.5	5.8	0.2		10.9	4.3		47.6	77.9			
3.1 Employee (LC <sub>eor</sub> )	6.0	3.9	0.3	3.4	0.0	5.1		10.1	0.0		0.7	0.0	29.5	26.5	5.8	0.2		10.9	4.3		47.6	77.2			
3.2 Self-employed (LC <sub>seor</sub> )								0.2			0.5		0.7										0.7		
4. Ordinary consumption of manu. fixed capital (CFC <sub>mo</sub> )	0.1	0.4		0.0	0.2	0.3		2.2	0.0		1.1	0.0	4.2	1.3	1.6	0.0		2.1	0.6		5.6	9.8			
5. Revised ordinary manu. net operating surplus (NOS <sub>mor</sub> )	3.3	-30.3	-0.4	-4.0	0.1	0.0	-19.8	0.0	0.4	1.1	0.0	-49.5		0.0	0.5		0.0	0.0		0.5	-49.0				
6. Ecosystem services (ES <sub>bp</sub> )	4.5	16.5	0.0		1.3			13.0					35.3			14.8					93.5	108.3	143.5		
6.1. Environmental work-in-progress used (WPeu)	4.5	16.5	0.0					4.7					25.7										25.7		
6.2. Revised environmental net operating surplus (NOSeor)			0.0		1.3			8.3					9.6			14.8					93.5	108.3	117.8		
<b>7. Revised ordinary net value added (NVA<sub>or</sub>)</b>	13.8	-9.9	-0.1	-0.6	1.4	5.1		3.6	0.0	0.4	2.3	0.0	16.1	26.5	5.8	15.5		10.9	4.3	93.5	156.4	172.5			
<b>8. Manufactured gross capital formation (GCFm)</b>								0.1			-1.2		-1.1	2.9	1.8	0.0		3.4	1.3		9.4	8.3			
9. Bought investment manu. intermediate consumption (IC <sub>mib</sub> )								0.0			0.6		0.6	0.9	0.5	0.0		0.9	0.4		2.6	3.2			
10. Revised investment labour compensation (LC <sub>cir</sub> )								0.0			0.4		0.4	2.1	1.3	0.0		2.6	0.9		6.9	7.3			
10.1 Employee (LC <sub>ei</sub> )								0.0			0.0		0.0	2.1	1.3	0.0		2.6	0.9		6.9	6.9			
10.2 Self-employed (LC <sub>seir</sub> )								0.0			0.4		0.4										0.4		
11. Investment consumption of manu. fixed capital (CFC <sub>mi</sub> )																									
12. Revised investment manu. net operating surplus (NOS <sub>mir</sub> )								0.0			-2.1		-2.1	0.0								0.0	-2.1		
<b>13. Revised investment manu. net value added (NVA<sub>mir</sub>)</b>								0.0			-1.7		-1.7	2.1	1.3	0.0		2.6	0.9		6.9	5.2			
<b>14. Total product (TP<sub>bp</sub>)</b>	13.9	22.6	0.1	0.0	1.6	13.4		17.8		0.4	7.6		77.3	42.3	13.2	15.6		69.5	12.6	93.5	246.7	324.0			
15. Revised intermediate consumption (IC <sub>r</sub> )	0.0	32.1	0.2	0.6	0.0	8.0		12.0			5.9	0.0	58.7	12.4	4.6	0.0		54.0	6.8		77.8	136.6			
15.1 Bought (IC <sub>b</sub> )	0.0	32.1	0.2	0.6	0.0	8.0		3.4			4.7	0.0	49.0	12.4	2.6	0.0		4.4	2.0		21.5	70.5			
15.2 Own (IC <sub>o</sub> )								8.5			1.2		9.8		1.9			49.5	4.9		56.3	66.1			
15.3 Environmental work-in-progress used (WPeu)	4.5	16.5	0.0					4.7					25.7									25.7			
16. Revised labour compensation (LC <sub>r</sub> )	6.0	3.9	0.3	3.4	0.0	5.1		10.4	0.0		1.6	0.0	30.7	28.6	7.1	0.2		13.4	5.2		54.5	85.2			
16.1 Employee (LC <sub>e</sub> )	6.0	3.9	0.3	3.4	0.0	5.1		10.1	0.0		0.7	0.0	29.6	28.6	7.1	0.2		13.4	5.2		54.5	84.1			
16.2 Self-employed (LC <sub>ser</sub> )								0.2			0.9		1.1									1.1			
17. Consumption of manu. fixed capital (CFC <sub>mi</sub> )	0.1	0.4	0.0	0.2	0.3			2.2	0.0		1.1	0.0	4.2	1.3	1.6	0.0		2.1	0.6		5.6	9.8			
18. Revised net operating surplus (NOS <sub>bp</sub> )	7.8	-13.8	-0.4	-4.0	1.3	0.0	-6.7	0.0	0.4	-1.0	0.0	-16.3	0.0	0.0	15.3		0.0	0.0		93.5	108.8	92.4			
18.1 Revised manufactured net operating surplus (NOS <sub>mr</sub> )	3.3	-30.3	-0.4	-4.0	0.1	0.0	-19.8	0.0	0.4	-1.0	0.0	-51.6	0.0	0.0	0.5		0.0	0.0		0.5	-51.1				
18.2 Ecosystem services (ES <sub>bp</sub> )	4.5	16.5	0.0		1.3			13.0					35.3			14.8					93.5	108.3	143.5		
<b>19. Net value added (NVA<sub>bp</sub>)</b>	13.8	-9.9	-0.1	-0.6	1.4	5.1		3.6	0.0	0.4	0.6	0.0	14.4	28.6	7.1	15.5		13.4	5.2	93.5	163.3	177.6			
19.1 Revised labour compensation (LC <sub>r</sub> )	6.0	3.9	0.3	3.4	0.0	5.1		10.4	0.0		1.6	0.0	30.7	28.6	7.1	0.2		13.4	5.2		54.5	85.2			
19.1.1 Employee (LC <sub>e</sub> )	6.0	3.9	0.3	3.4	0.0	5.1		10.1	0.0		0.7	0.0	29.6	28.6	7.1	0.2		13.4	5.2		54.5	84.1			
19.1.2 Self-employed (LC <sub>ser</sub> )								0.2			0.9		1.1									1.1			
19.2 Revised net operating surplus (NOS <sub>bp</sub> )	7.8	-13.8	-0.4	-4.0	1.3	0.0	-6.7	0.0	0.4	-1.0	0.0	-16.3	0.0	0.0	15.3		0.0	0.0		93.5	108.8	92.4			
<b>20. Gross value added (GVA<sub>bp</sub>)</b>	13.9	-9.5	-0.1	-0.5	1.6	5.3		5.8		0.4	1.7	0.0	18.6	29.9	8.7	15.5		15.5	5.8	93.5	168.9	187.5			
<b>21. Revised gross operating surplus (GOS<sub>bp</sub>)</b>	7.9	-13.4	-0.4	-3.9	1.5	0.3		-4.5	0.0	0.4	0.1	0.0	-12.1	1.3	1.6	15.3		2.1	0.6	93.5	114.4	102.3			
<b>22. Ecosystem services (ES<sub>bp</sub>)</b>	4.5	16.5	0.0		1.3			13.0					35.3			14.8					93.5	108.3	143.5		

N: 5 estates with the presence of livestock species more than 6 months per year. Total area: 17,909 hectares; Average area: 3,582 hectares.

Table S16. Summary of production, income generation, accumulation and capital balance of rSNA applied to privately-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Conserv. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agric. crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water sup.runoff	Government	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20	
<b>1. Total product consumption (TP<sub>bp</sub>)</b>	0.5	0.2	12.4	15.2				3.4		14.1	31.1	12.5	11.1	100.5	28.3	4.7	13.5	55.1	4.0	10.9	116.4	216.9		
1.1 Intermediate product (IP <sub>bp</sub> )					15.2			1.3		11.1	7.9	12.5		48.1	28.3							28.3	76.4	
1.1.1 Raw materials (IRM <sub>g</sub> )					15.2			1.3															16.6	
1.1.1.1 Grass and browse (IRM <sub>gb</sub> )					15.2																		15.2	
1.1.1.2. Acorn (IRM <sub>a</sub> )								1.3															1.3	
1.1.2 Services (ISS)								0.0		11.1	7.9	12.5		31.5	28.3								28.3	59.8
1.1.2.1 Commercial (ISS <sub>c</sub> )										11.1													28.3	39.4
1.1.2.2 Compensated (ISS <sub>ncc</sub> )								0.0			7.9	12.5			20.4									20.4
1.2 Final product consumed (FPC <sub>bp</sub> )	0.5	0.2	12.4					2.1		3.0	23.2			11.1	52.4		4.7	13.5	55.1	4.0	10.9	88.1	140.5	
2. Ordinary manu. intermediate consumption (IC <sub>o</sub> )	19.7	0.1	3.4	12.4				22.4		0.9	17.1	1.7	11.1	88.7	9.5	1.7	0.1	49.5	1.1	61.8	150.5			
2.1 Bought (IC <sub>mob</sub> )	19.7	0.1	3.4	12.4						0.9	15.2	1.7		61.1	9.5	0.9	0.1	1.5	1.1		13.1	74.2		
2.2 Own (IC <sub>mo</sub> )												1.9		11.1	27.6		0.8		48.0			48.7	76.4	
3. Revised ordinary labour compensation (LC <sub>or</sub> )	4.6	0.2	3.8	1.2				11.6			17.1	5.1		43.6	18.0	1.9	0.1	3.5	2.5		26.0	69.6		
3.1 Employee (LC <sub>eor</sub> )	4.6	0.2	3.8	1.2				11.6			17.1	5.1		43.6	18.0	1.9	0.1	3.5	2.5		26.0	69.6		
3.2 Self-employed (LC <sub>seor</sub> )																								
4. Ordinary consumption of manu. fixed capital (CFC <sub>mo</sub> )	0.3	0.0	9.6	1.7				3.8		11.6	10.6	1.7		39.3	0.8	1.1	0.0	2.1	0.5		4.5	43.8		
5. Revised ordinary manu. net operating surplus (NOS <sub>mor</sub> )	-24.5	-0.1	-4.4	-12.9				-36.1		1.5	-13.6	4.0		-86.1	0.0	0.0	0.5	0.0	0.0		0.5	-85.6		
6. Ecosystem services (ES <sub>bp</sub> )	0.4	0.0		12.8										15.0				12.7			10.9	23.5	38.5	
6.1. Environmental work-in-progress used (WPeu)	0.4	0.0												0.8									0.8	
6.2. Revised environmental net operating surplus (NOSeor)	0.0			12.8										14.1			12.7				10.9	23.5	37.7	
<b>7. Revised ordinary net value added (NVA<sub>or</sub>)</b>	-19.5	0.1	-0.7	1.1				-22.7		1.5	3.4	9.1		-27.6	18.0	1.9	13.3	3.5	2.5	10.9	50.1	22.5		
<b>8. Manufactured gross capital formation (GCF<sub>m</sub>)</b>								0.5			1.4	0.6		2.5	1.8	0.1	0.2	0.7	1.2		4.0	6.6		
9. Bought investment manu. intermediate consumption (IC <sub>mib</sub> )								0.2			13.1			13.3	0.6	0.0	0.1	0.2	0.4		1.3	14.6		
10. Revised investment labour compensation (LC <sub>cir</sub> )								0.3			4.7			5.0	1.2	0.1	0.1	0.5	0.8		2.7	7.7		
10.1 Employee (LC <sub>ei</sub> )								0.3			4.7			5.0	1.2	0.1	0.1	0.5	0.8		2.7	7.7		
10.2 Self-employed (LC <sub>seir</sub> )																								
11. Investment consumption of manu. fixed capital (CFC <sub>mi</sub> )																					0.0	0.0		
12. Revised investment manu. net operating surplus (NOS <sub>mir</sub> )								0.0			-16.3	0.6		-15.8								-15.8		
<b>13. Revised investment manu. net value added (NVA<sub>mir</sub>)</b>								0.3			-11.6	0.6		-10.7	1.2	0.1	0.1	0.5	0.8		2.7	-8.0		
<b>14. Total product (TP<sub>bp</sub>)</b>	0.5	0.2	12.4	15.2				3.9		14.1	32.5	13.1	11.1	103.0	30.1	4.8	13.7	55.8	5.2	10.9	120.4	223.4		
15. Revised intermediate consumption (IC <sub>r</sub> )	19.7	0.1	3.4	12.4				22.6		0.9	30.2	1.7	11.1	102.0	10.1	1.7	0.2	49.7	1.5	63.2	165.1			
15.1 Bought (IC <sub>b</sub> )	19.7	0.1	3.4	12.4				7.9		0.9	28.2	1.7		74.3	10.1	1.0	0.2	1.7	1.5		14.4	88.8		
15.2 Own (IC <sub>o</sub> )								14.6			1.9		11.1	27.6		0.8		48.0			48.7	76.4		
15.3 Environmental work-in-progress used (WPeu)	0.4	0.0						0.4						0.8								0.8		
16. Revised labour compensation (LC <sub>r</sub> )	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
16.1 Employee (LC <sub>e</sub> )	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
16.2 Self-employed (LC <sub>ser</sub> )																								
17. Consumption of manu. fixed capital (CFC <sub>mi</sub> )	0.3	0.0	9.6	1.7				3.8		11.6	10.6	1.7		39.3	0.8	1.1	0.0	2.1	0.5		4.5	43.8		
18. Revised net operating surplus (NOS <sub>bp</sub> )	-24.1	-0.1	-4.4	-0.1				-34.3		1.5	-30.0	4.6		-86.9	0.0	0.0	13.2	0.0	0.0	10.9	24.1	-62.9		
18.1 Revised manufactured net operating surplus (NOS <sub>mr</sub> )	-24.5	-0.1	-4.4	-12.9				-36.1		1.5	-30.0	4.6		-101.9	0.0	0.0	0.5	0.0	0.0		0.5	-101.3		
18.2 Ecosystem services (ES <sub>bp</sub> )	0.4	0.0		12.8				1.7						15.0			12.7				10.9	23.5	38.5	
<b>19. Net value added (NVA<sub>bp</sub>)</b>	-19.5	0.1	-0.7	1.1				-22.4		1.5	-8.2	9.7		-38.3	19.2	2.0	13.4	4.0	3.3	10.9	52.8	14.5		
19.1 Revised labour compensation (LC <sub>r</sub> )	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
19.1.1 Employee (LC <sub>e</sub> )	4.6	0.2	3.8	1.2				11.9			21.8	5.1		48.6	19.2	2.0	0.2	4.0	3.3		28.7	77.3		
19.1.2 Self-employed (LC <sub>ser</sub> )																								
19.2 Revised net operating surplus (NOS <sub>bp</sub> )	-24.1	-0.1	-4.4	-0.1				-34.3		1.5	-30.0	4.6		-86.9	0.0	0.0	13.2	0.0	0.0	10.9	24.1	-62.9		
<b>20. Gross value added (GVA<sub>bp</sub>)</b>	-19.2	0.1	9.0	2.8				-18.6		13.2	2.4	11.4		1.1	20.0	3.1	13.5	6.1	3.7	10.9	57.2	58.3		
<b>21. Revised gross operating surplus (GOS<sub>bp</sub>)</b>	-23.8	-0.1	5.2	1.6				-30.6		13.2	-19.4	6.3		-47.6	0.8	1.1	13.3	2.1	0.5	10.9	28.5	-19.0		
<b>22. Ecosystem services (ES<sub>bp</sub>)</b>	0.4	0.0		12.8				1.7						15.0			12.7				10.9	23.5	38.5	

N: 2 estates with the presence of livestock species more than 6 months per year. Total area: 970 hectares; Average area: 485 hectares.

Table S17. Summary of production, income generation, accumulation and capital balance of rSNA applied to publicly-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Timber	Cork	Fire-wood	Nuts	Grazing	Consvy. forestry	Aromatic plants	Hunting	Commercial recreation	Residential	Livestock	Agric. crops	Amenity services	Farmer	Fire services	Recreation services	Mushrooms	Carbon	Landscape	Bio-diversity	Water sup.runoff	Government	Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	Σ 1-13	14	15	16	17	18	19	20	Σ 14-20	Σ 1-20
<b>1. Total product consumption (TP<sub>bp</sub>)</b>	9.1		0.8	1.2	27.1	1.9	9.9		0.3	8.8	0.1		59.2	34.8	12.3	5.7	79.1	6.0	41.6	179.5	238.7		
1.1 Intermediate product (IP <sub>bp</sub> )					0.9	27.1		4.5			4.5			37.0	34.8						34.8	71.9	
1.1.1 Raw materials (IRM <sub>g</sub> )					0.9			4.5						5.4								5.4	
1.1.1.1 Grass and browse (IRM <sub>gb</sub> )					0.9									0.9								0.9	
1.1.1.2. Acorn (IRM <sub>a</sub> )					0.1			4.5						4.5								4.5	
1.1.2 Services (ISS)						27.1		0.0			4.5			31.6	34.8						34.8	66.5	
1.1.2.1 Commercial (ISS <sub>c</sub> )						27.1								27.1	34.8						34.8	62.0	
1.1.2.2 Compensated (ISS <sub>ncc</sub> )								0.0			4.5			4.5								4.5	
1.2 Final product consumed (FPC <sub>bp</sub> )	9.1		0.8	0.2		1.9	5.4		0.3	4.2	0.1		22.2		12.3	5.7	79.1	6.0	41.6	144.6	166.8		
2. Ordinary manu. intermediate consumption (IC <sub>o</sub> )	3.6		0.2	14.5		6.3				7.0	0.0		31.6	10.8	4.4	0.0	68.0	1.5	84.6	116.2			
2.1 Bought (IC <sub>mob</sub> )	3.6		0.2	14.5		1.8				6.1	0.0		26.2	10.8	3.1	0.0	2.7	1.5	18.1	44.3			
2.2 Own (IC <sub>mo</sub> )						4.5				0.9			5.4		1.2		65.2		66.5	71.9			
3. Revised ordinary labour compensation (LC <sub>or</sub> )	4.2		0.4	11.7	1.5	3.2				0.6	0.0		21.7	23.5	6.7	0.1	8.9	3.8	43.0	64.8			
3.1 Employee (LC <sub>eor</sub> )	4.2		0.4	11.7	1.5	3.1				0.2			21.1	23.5	6.7	0.1	8.9	3.8	43.0	64.1			
3.2 Self-employed (LC <sub>sor</sub> )						0.1				0.5	0.0		0.6							0.6			
4. Ordinary consumption of manu. fixed capital (CFC <sub>mo</sub> )	0.1			0.0	0.9	0.0	0.7			1.4	0.0		3.1	0.6	1.2	0.0	2.2	0.7	4.7	7.8			
5. Revised ordinary manu. net operating surplus (NOS <sub>mor</sub> )	-0.6			0.2	0.0	-0.1	-6.3		0.3	-0.2	0.1		-6.6		0.0	0.5	0.0	0.0	0.5	-6.1			
6. Ecosystem services (ES <sub>bp</sub> )	1.9		0.2	0.9		0.4	5.9						9.4			5.0			41.6	46.6	56.0		
6.1. Environmental work-in-progress used (WPeu)	1.9						1.5						3.4								3.4		
6.2. Revised environmental net operating surplus (NOSeor)				0.2	0.9	0.4	4.5						6.0			5.0			41.6	46.6	52.6		
<b>7. Revised ordinary net value added (NVA<sub>or</sub>)</b>	5.4		0.6	1.1	11.7	1.9	2.9		0.3	0.4	0.1		24.5	23.5	6.7	5.6	8.9	3.8	41.6	90.2	114.7		
<b>8. Manufactured gross capital formation (GCF<sub>m</sub>)</b>							0.0			-0.6			-0.6	3.2	3.2	0.0	1.7	0.7	8.8	8.2			
9. Bought investment manu. intermediate consumption (IC <sub>mib</sub> )							0.0			0.4			0.4	1.0	1.0	0.0	0.4	0.2	2.6	3.0			
10. Revised investment labour compensation (LC <sub>ir</sub> )							0.0			0.0			0.0	2.2	2.2	0.0	1.3	0.5	6.2	6.2			
10.1 Employee (LC <sub>eir</sub> )							0.0			0.0			0.0	2.2	2.2	0.0	1.3	0.5	6.2	6.2			
10.2 Self-employed (LC <sub>sir</sub> )							0.0			0.0			0.0						0.0				
11. Investment consumption of manu. fixed capital (CFC <sub>mi</sub> )																			0.0	0.0			
12. Revised investment manu. net operating surplus (NOS <sub>mir</sub> )							0.0			-1.0			-1.0	2.2	2.2	0.0	1.3	0.5	6.2	5.2			
<b>13. Revised investment manu. net value added (NVA<sub>mir</sub>)</b>							0.0			-1.0			-1.0										
<b>14. Total product (TP<sub>bp</sub>)</b>	9.1		0.8	1.2	27.1	1.9	9.9		0.3	8.2	0.1		58.7	38.0	15.5	5.7	80.8	6.7	41.6	188.2	246.9		
15. Revised intermediate consumption (IC <sub>r</sub> )	3.6		0.2	14.5		6.3				7.4	0.0		32.0	11.8	5.4	0.0	68.4	1.7	87.2	119.2			
15.1 Bought (IC <sub>b</sub> )	3.6		0.2	14.5		1.8				6.5	0.0		26.6	11.8	4.1	0.0	3.1	1.7	20.7	47.4			
15.2 Own (IC <sub>o</sub> )						4.5				0.9			5.4		1.2		65.2		66.5	71.9			
15.3 Environmental work-in-progress used (WPeu)	1.9					1.5							3.4							3.4			
16. Revised labour compensation (LC <sub>r</sub> )	4.2		0.4	11.7	1.5	3.3				0.7	0.0		21.8	25.7	8.9	0.1	10.2	4.3	49.2	71.0			
16.1 Employee (LC <sub>er</sub> )	4.2		0.4	11.7	1.5	3.1				0.2			21.1	25.7	8.9	0.1	10.2	4.3	49.2	70.3			
16.2 Self-employed (LC <sub>ser</sub> )						0.1				0.5	0.0		0.7						0.7				
17. Consumption of manu. fixed capital (CFC <sub>mi</sub> )	0.1			0.0	0.9	0.0	0.7			1.4	0.0		3.1	0.6	1.2	0.0	2.2	0.7	4.7	7.8			
18. Revised net operating surplus (NOS <sub>bp</sub> )	1.3		0.2	1.1	0.0	0.4	-0.3		0.3	-1.3	0.1		1.7		0.0	5.6	0.0	0.0	41.6	47.1	48.9		
18.1 Revised manufactured net operating surplus (NOS <sub>mr</sub> )	-0.6			0.2	0.0	-0.1	-6.3		0.3	-1.3	0.1		-7.7		0.0	0.5	0.0	0.0	0.5	-7.2			
18.2 Ecosystem services (ES <sub>bp</sub> )	1.9		0.2	0.9		0.4	5.9						9.4			5.0			41.6	46.6	56.0		
<b>19. Net value added (NVA<sub>bp</sub>)</b>	5.4		0.6	1.1	11.7	1.9	2.9		0.3	-0.6	0.1		23.5	25.7	8.9	5.6	10.2	4.3	41.6	96.3	119.8		
19.1 Revised labour compensation (LC <sub>r</sub> )	4.2		0.4	11.7	1.5	3.3				0.7	0.0		21.8	25.7	8.9	0.1	10.2	4.3	49.2	71.0			
19.1.1 Employee (LC <sub>er</sub> )	4.2		0.4	11.7	1.5	3.1				0.2			21.1	25.7	8.9	0.1	10.2	4.3	49.2	70.3			
19.1.2 Self-employed (LC <sub>ser</sub> )						0.1				0.5	0.0		0.7						0.7				
19.2 Revised net operating surplus (NOS <sub>bp</sub> )	1.3		0.2	1.1	0.0	0.4	-0.3		0.3	-1.3	0.1		1.7		0.0	5.6	0.0	0.0	41.6	47.1	48.9		
<b>20. Gross value added (GVA<sub>bp</sub>)</b>	5.6		0.6	1.2	12.6	1.9	3.6		0.3	0.8	0.1		26.6	26.3	10.1	5.7	12.4	5.0	41.6	101.0	127.7		
<b>21. Revised gross operating surplus (GOS<sub>bp</sub>)</b>	1.4		0.2	1.2	0.9	0.4	0.4		0.3	0.1	0.1		4.9	0.6	1.2	5.6	2.2	0.7	41.6	51.8	56.7		
<b>22. Ecosystem services (ES<sub>bp</sub>)</b>	1.9		0.2	0.9		0.4	5.9						9.4			5.0			41.6	46.6	56.0		

N: 13 estates with the presence of livestock species more than 6 months per year. Total area: 53,923 hectares; Average area: 4,148 hectares.

Table S18. Capital balance by activity under AAS applied to privately-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	1. Opening capital (Co)	2. Capital entries					3. Capital withdrawals					4. Revaluation (Cr)	5. Closing capital (Cc)
		2.1 Bought (Ceb)	2.2 Own (Ceo)	2.3 Others (Ceot)	2.4 Total (Ce)	3.1 Used (Cwu)	3.2 Sales (Cws)	3.2 Destructions (Cwd)	3.3. Reclassifications (Cwrc)	3.4 Others (Cwo)	3.5 Total (Cw)		
1. Capital (C=WP+FC)	12,357.7	24.5	240.3	69.4	334.2	244.4	17.2	7.0	74.0	32.3	374.9	-112.8	12,204.2
2. Work-in-progress (WP)	531.0	16.2	165.7	10.1	192.0	244.4			23.2	2.4	269.9	54.4	507.5
Timber (WPt)	6.5		0.1		0.1				0.1		0.1	0.5	7.1
Cork (WPc)	276.1		24.9		24.9	41.9			22.8		64.7	51.6	287.9
Firewood (WPf)	25.1		0.3		0.3	1.3			0.2		1.5	2.3	26.2
Non breeding livestock (WPnbl)	189.0	16.2	127.3	8.4	151.9	189.0					189.0	0.0	151.9
Hunting (WPh)	32.7		11.5	1.7	13.2	10.8				2.4	13.2	0.0	32.7
Agriculture (WPa)	1.4			1.6	1.6	1.4					1.4	0.0	1.6
3. Fixed capital (FC)	11,826.7	8.3	74.7	59.2	142.2		17.2	7.0	50.8	29.9	105.0	-167.2	11,696.7
3.1 Land (FCl)	8,818.7			52.3	52.3				50.8	14.9	65.7	-194.4	8,610.9
3.1.1 Commercial (FCco)	1,395.9											1.8	1,397.7
Timber (FClt)	15.1											0.5	15.6
Cork (FClc)	29.3											0.9	30.2
Firewood (FClf)	2.7											0.1	2.7
Nuts (FCln)	0.2											0.0	0.2
Grass and browse (FClg)	846.4											0.0	846.4
Acorns (FClg)	25.0											0.4	25.4
Hunting (FClh)	391.5												391.5
Agricultural crops (FClag)	85.7												85.7
Aromatic plants (FClar)													
3.1.2 Environmental (FClle)	7,422.8		52.3	52.3					50.8	14.9	65.7	-196.2	7,213.2
Amenity services (FCllea)	2,814.6											-208.9	2,605.7
Recreation services (FClle)	665.7												665.7
Mushrooms (FCllem)	447.0												447.0
Carbon (FClcc)	498.3		52.3	52.3					50.8	14.9	65.7	12.7	497.6
Landscape (FClcl)	1,475.3												1,475.3
Biodiversity (FClcb)	382.2												382.2
Water supply runoff (FClcw)	1,139.7												1,139.7
3.2 Biological resources (FCbr)	1,753.1	3.0	36.5	6.9	46.3		17.2	6.5		15.0	38.8	97.9	1,858.6
Timber (FCbrt)													
Cork (FCbrc)	1,419.5											96.1	1,515.7
Firewood (FCbrf)	80.2											3.5	83.7
Nuts (FCbrn)	0.1											0.0	0.1
Acorns (FCbra)	33.1											-1.6	31.6
Breeding livestock (FCbrb)	211.3	3.0	34.8	6.1	43.9		17.2	6.5		12.4	36.1	-0.3	218.8
Hunting (FCbrh)	8.8		1.7	0.8	2.5					2.7	2.7	0.2	8.8
3.3 Plantations (FCp)	3.6		0.5		0.5							0.0	4.0
3.4 Infrastructure (FCco)	1,123.0		7.0		7.0							-54.5	1,075.5
3.5 Equipment (FCE)	124.3	5.3			5.3			0.5		0.0	0.5	-15.3	113.8
3.9 Others (FCo)	4.0		30.7		30.7							-0.9	33.8

N: 21 estates with the presence of livestock species more than 6 months per year. Total area: 15,372 hectares; Average area: 732 hectares.

Table S19. Capital balance by activity under AAS for publicly-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	1. Opening capital (Co)	2. Capital entries				3. Capital withdrawals					4. Revaluation (Cr)	5. Closing capital (Cc)	
		2.1 Bought (Ceb)	2.2 Own (Ceo)	2.3 Others (Ceot)	2.4 Total (Ce)	3.1 Used (Cwu)	3.2 Sales (Cws)	3.2. Destructions (Cwd)	3.3. Reclassifications (Cwrc)	3.4 Others (Cwo)	3.5 Total (Cw)		
1. Capital (C=WP+FC)	16,733.6		40.8	90.2	131.0	29.6	0.0	0.8	102.9	37.5	170.9	-87.8	16,606.0
2. Work-in-progress (WP)	397.0		29.5	2.5	31.9	29.6			20.1	2.6	52.3	40.5	417.2
Timber (WPt)	59.6		0.8		0.8	4.5			0.8		5.3	10.7	65.8
Cork (WPc)	312.2		19.8		19.8	16.5			19.2		35.6	29.5	325.7
Firewood (WPf)	7.4		0.1		0.1	0.0			0.1		0.1	0.4	7.8
Non breeding livestock (WPnbl)	4.6		3.9	0.6	4.6	3.9				0.7	4.6	0.0	4.6
Hunting (WPh)	13.2		4.8	1.8	6.6	4.7				1.9	6.6	0.0	13.2
Agriculture (WPa)													
3. Fixed capital (FC)	16,336.6		11.3	87.8	99.1		0.0	0.8	82.8	34.9	118.5	-128.3	16,188.8
3.1 Land (FCl)	14,703.6			85.3	85.3				82.8	30.2	112.9	-192.3	14,483.7
3.1.1 Commercial (FCco)	1,313.6											2.6	1,316.3
Timber (FClt)	72.0											2.2	74.2
Cork (FClc)	11.9											0.4	12.2
Firewood (FClf)	2.3											0.1	2.4
Nuts (FCln)	1.2											0.0	1.2
Grass and browse (FClg)	1,017.3											-0.1	1,017.2
Acorns (FCl a)	1.5											0.0	1.6
Hunting (FCl h)	205.1												205.1
Agricultural crops (FCl ag)	2.4												2.4
Aromatic plants (FClar)													
3.1.2 Environmental (FCl e)	13,390.0		85.3	85.3					82.8	30.2	112.9	-194.9	13,167.4
Amenity services (FCl ea)	4,168.4											-239.2	3,929.3
Recreation services (FCl er)	3,080.9												3,080.9
Mushrooms (FCl em)	517.9												517.9
Carbon (FCl ec)	868.9		85.3	85.3					82.8	30.2	112.9	44.3	885.5
Landscape (FCl el)	2,414.6												2,414.6
Biodiversity (FCl eb)	628.4												628.4
Water supply runoff (FCl ew)	1,710.7												1,710.7
3.2 Biological resources (FCbr)	1,277.9		1.8	2.5	4.4		0.0	0.8		4.8	5.6	79.1	1,355.8
Timber (FCbrt)													
Cork (FCbrc)	1,211.7											76.7	1,288.4
Firewood (FCbrf)	37.5											2.3	39.8
Nuts (FCbrn)	1.5											0.0	1.5
Acorns (FCbra)	5.7											-0.1	5.5
Breeding livestock (FCbrb)	16.6		1.0	2.5	3.5		0.0	0.8		3.8	4.6	0.0	15.5
Hunting (FCbrh)	4.9		0.9	0.0	0.9					1.0	1.0	0.1	4.9
3.3 Plantations (FCp)													
3.4 Infrastructure (FCco)	299.9		7.6		7.6							-13.2	294.3
3.5 Equipment (FCE)	51.2									0.0	0.0	-0.6	50.6
3.9 Others (FCo)	4.0		1.9		1.9							-1.4	4.5

N: 5 estates with the presence of livestock species more than 6 months per year. Total area: 17,909 hectares; Average area: 3,582 hectares.

Table S20. Capital balance by activity under AAS applied to privately-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	1. Opening capital (Co)	2. Capital entries				3. Capital withdrawals						4. Revaluation (Cr)	5. Closing capital (Cc)
		2.1 Bought (Ceb)	2.2 Own (Ceo)	2.3 Others (Ceot)	2.4 Total (Ce)	3.1 Used (Cwu)	3.2 Sales (Cws)	3.2 Destructions (Cwd)	3.3. Reclassifications (Cwrc)	3.4 Others (Cwo)	3.5 Total (Cw)		
1. Capital (C=WP+FC)	7,073.1		61.7	63.4	125.1	45.1	1.2	9.1	55.4	22.4	133.2	-198.7	6,866.3
2. Work-in-progress (WP)	135.4		37.7	6.5	44.2	45.1			0.1	6.2	51.5	3.5	131.6
Timber (WPt)	61.6		0.1		0.1	0.4			0.1		0.5	3.4	64.7
Cork (WPc)													
Firewood (WPf)	0.0		0.0		0.0	0.0			0.0		0.0	0.0	0.0
Non breeding livestock (WPnbl)	43.7		30.4	6.5	36.8	43.7					43.7	0.0	36.8
Hunting (WPh)	29.5			6.6	6.6	0.4				6.2	6.6	0.0	29.5
Agriculture (WPa)	0.6			0.6	0.6	0.6				0.6	0.6	0.0	0.6
3. Fixed capital (FC)	6,937.6		24.0	56.9	80.9		1.2	9.1	55.3	16.1	81.7	-202.2	6,734.7
3.1 Land (FCl)	5,908.3			56.9	56.9				55.3	14.3	69.6	-152.6	5,743.1
3.1.1 Commercial (FCco)	1,325.5											0.7	1,326.2
Timber (FClt)	15.5											0.6	16.0
Cork (FClc)													
Firewood (FClf)	0.3											0.0	0.3
Nuts (FCln)	4.9											0.1	5.0
Grass and browse(FClg)	971.7												971.7
Acorns (FCla)													
Hunting (FClh)	268.2												268.2
Agricultural crops (FClag)	65.0												65.0
Aromatic plants (FClar)													
3.1.2 Environmental (FCle)	4,582.8			56.9	56.9				55.3	14.3	69.6	-153.3	4,416.9
Amenity services (FClea)	3,333.1											-161.0	3,172.0
Recreation services (FCler)	194.2												194.2
Mushrooms (FClem)	448.7												448.7
Carbon (FClec)	354.1			56.9	56.9				55.3	14.3	69.6	7.7	349.2
Landscape (FClel)	0.0												0.0
Biodiversity (FCleb)	40.3												40.3
Water supply runoff (FClew)	212.4												212.4
3.2 Biological resources (FCbr)	117.0		19.4		19.4		1.2	9.1		1.8	12.1	1.2	125.5
Timber (FCbrt)													
Cork (FCbrc)													
Firewood (FCbrf)	0.0											0.0	0.0
Nuts (FCbrn)	6.5											0.2	6.7
Acorns (FCbra)													
Breeding livestock (FCbrb)	102.4		17.8		17.8		1.2	9.1			10.3	0.9	110.8
Hunting (FCbrh)	8.0		1.6		1.6					1.8	1.8	0.2	8.0
3.3 Plantations (FCp)													
3.4 Infrastructure (FCco)	778.2		2.9		2.9							-38.4	742.6
3.5 Equipment (FCe)	130.3			1.6	1.6							-11.7	118.6
3.9 Others (FCo)	3.9											-0.7	4.8

N: 2 estates with the presence of livestock species more than 6 months per year. Total area: 970 hectares; Average area: 485 hectares.

Table S21. Capital balance by activity under AAS applied to publicly-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	1. Opening capital (Co)	2. Capital entries				3. Capital withdrawals						4. Revaluation (Cr)	5. Closing capital (Cc)
		2.1 Bought (Ceb)	2.2 Own (Ceo)	2.3 Others (Ceot)	2.4 Total (Ce)	3.1 Used (Cwu)	3.2 Sales (Cws)	3.2. Destructions (Cwd)	3.3. Reclassifications (Cwrc)	3.4 Others (Cwo)	3.5 Total (Cw)		
1. Capital (C=WP+FC)	12,325.6		19.1	61.2	80.3	4.4	0.1	0.7	61.4	30.9	97.5	-102.9	12,205.6
2. Work-in-progress (WP)	518.8		9.4	0.2	9.6	4.4			5.6	1.4	11.5	34.0	550.9
Timber (WPt)	505.9		5.8		5.8	1.9			5.6		7.5	33.8	537.9
Cork (WPc)													
Firewood (WPf)	4.6		0.0		0.0				0.0		0.0	0.2	4.8
Non breeding livestock (WPnbl)	1.3		1.2	0.1	1.3	1.0				0.3	1.3	0.0	1.3
Hunting (WPh)	7.0		2.4	0.1	2.6	1.5				1.1	2.6	0.0	7.0
Agriculture (WPa)													
3. Fixed capital (FC)	11,806.9		9.6	61.0	70.7		0.1	0.7	55.8	29.4	86.0	-136.9	11,654.7
3.1 Land (FCl)	11,467.1			57.5	57.5				55.8	25.4	81.2	-127.4	11,316.0
3.1.1 Commercial (FCco)	895.0											4.5	899.5
Timber (FClt)	129.4											3.9	133.3
Cork (FClc)													
Firewood (FClf)	0.8											0.0	0.8
Nuts (FCln)	2.3											0.1	2.4
Grass and browse(FClg)	610.3											0.4	610.7
Acorns (FClA)	0.5											0.0	0.5
Hunting (FClh)	99.6												99.6
Agricultural crops (FClag)	37.5												37.5
Aromatic plants (FClar)	14.6												14.6
3.1.2 Environmental (FClE)	10,572.1			57.5	57.5				55.8	25.4	81.2	-131.9	10,416.5
Amenity services (FClEA)	3,898.1											-178.8	3,719.3
Recreation services (FClEr)	2,183.7												2,183.7
Mushrooms (FClEm)	189.4												189.4
Carbon (FClEc)	745.7			57.5	57.5				55.8	25.4	81.2	46.9	768.9
Landscape (FClEl)	1,837.9												1,837.9
Biodiversity (FClEb)	560.0												560.0
Water supply runoff (FClEw)	1,157.3												1,157.3
3.2 Biological resources (FCbr)	46.0		0.7	3.6	4.3		0.1	0.7		4.0	4.8	1.4	46.8
Timber (FCbrt)	1.1											0.1	1.3
Cork (FCbrc)													
Firewood (FCbrf)	29.1											1.5	30.6
Nuts (FCbrn)	3.2											0.1	3.3
Acorns (FCbra)	4.5											-0.4	4.1
Breeding livestock (FCbrb)	7.0		0.5	3.6	4.0		0.1	0.7		3.8	4.6	0.0	6.5
Hunting (FCbrh)	1.1		0.2	0.0	0.2					0.3	0.3	0.0	1.1
3.3 Plantations (FCp)	6.2												0.0
3.4 Infrastructure (FCco)	239.5		6.9		6.9							-8.9	237.5
3.5 Equipment (FCe)	44.3		0.2		0.2					0.0	0.0	-0.4	44.0
3.9 Others (FCo)	3.8		1.9		1.9							-1.5	4.2

N: 13 estates with the presence of livestock species more than 6 months per year. Total area: 53,923 hectares; Average area: 4,148 hectares.

Table S22. Immobilized capital by activity under AAS applied to privately-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Opening	Opening	Opening capital	Working	Immobilized
	environmental capital	manufactured capital	1 = 1.1 + 1.2	capital	capital
	1.1	1.2		2	3 = 1 + 2
<b>Farmer</b>	6,007.2	1,601.8	7,609.0	68.0	7,677.0
<i>Timber</i>	21.7	2.0	23.7	0.3	24.0
<i>Cork</i>	1,725.0	13.5	1,738.5	0.4	1,739.0
<i>Firewood</i>	108.1	1.1	109.1	0.6	109.7
<i>Nuts</i>	0.3		0.3		0.3
<i>Grazing</i>	904.6	52.6	957.2	19.7	976.9
<i>Conserv. forestry</i>		5.9	5.9	0.5	6.4
<i>Aromatic plants</i>					
<i>Hunting</i>	433.0	114.2	547.2	9.0	556.2
<i>Commercial recreation</i>		20.0	20.0		20.0
<i>Residential</i>		546.9	546.9	4.3	551.2
<i>Livestock</i>		740.7	740.7	32.1	772.8
<i>Agricultural crops</i>		104.8	104.8	1.2	105.9
<i>Amenity services</i>	2,814.6		2,814.6		2,814.6
<b>Government</b>	4,608.2	140.5	4,748.7	29.1	4,777.8
<i>Fire services</i>		53.0	53.0	18.5	71.4
<i>Recreation services</i>	665.7	41.7	707.4	3.0	710.3
<i>Mushrooms</i>	447.0	18.0	465.0	0.1	465.1
<i>Carbon</i>	498.3		498.3		498.3
<i>Landscape</i>	1,475.3	2.2	1,477.4	4.7	1,482.2
<i>Biodiversity</i>	382.2	25.7	407.9	2.8	410.8
<i>Water supply runoff</i>	1,139.7		1,139.7		1,139.7
<b>Total</b>	10,615.4	1,742.3	12,357.7	97.1	12,454.7

N: 21 farms with the presence of livestock species more than 6 months per year.

Total area: 15,372 hectares; Average area: 732 hectares.

Table S23. Immobilized capital by activity under AAS applied to publicly-owned *dehesa* farm with livestock presence in Andalusia (2010: €/ha).

Class	Opening	Opening	Opening capital	Working	Immobilized
	environmental capital	manufactured capital	1 = 1.1 + 1.2	capital	capital
	1.1	1.2		2	3 = 1 + 2
<b>Farmer</b>	7,133.4	163.3	7,296.7	21.4	7,318.1
<i>Timber</i>	131.6	2.8	134.4	0.0	134.4
<i>Cork</i>	1,535.7	12.5	1,548.2	6.7	1,554.9
<i>Firewood</i>	47.2		47.2	0.2	47.4
<i>Nuts</i>	2.7	0.0	2.7	2.0	4.6
<i>Grazing</i>	1,024.5	6.6	1,031.0	0.0	1,031.1
<i>Conserv. forestry</i>		3.9	3.9	6.5	10.4
<i>Aromatic plants</i>					
<i>Hunting</i>	223.3	49.1	272.5	4.8	277.2
<i>Commercial recreation</i>		0.1	0.1	0.0	0.1
<i>Residential</i>		30.3	30.3		30.3
<i>Livestock</i>		55.6	55.6	1.2	56.8
<i>Agricultural crops</i>		2.4	2.4	0.0	2.4
<i>Amenity services</i>	4,168.4		4,168.4		4,168.4
<b>Government</b>	9,221.5	215.4	9,436.9	38.0	9,474.9
<i>Fire services</i>		61.7	61.7	20.5	82.2
<i>Recreation services</i>	3,080.9	106.1	3,186.9	4.9	3,191.8
<i>Mushrooms</i>	517.9	16.2	534.2	0.1	534.3
<i>Carbon</i>	868.9		868.9		868.9
<i>Landscape</i>	2,414.6	1.9	2,416.5	8.9	2,425.4
<i>Biodiversity</i>	628.4	29.5	657.9	3.6	661.5
<i>Water supply runoff</i>	1,710.7		1,710.7		1,710.7
<b>Total</b>	16,354.9	378.7	16,733.6	59.4	16,793.0

N: 5 farms with the presence of livestock species more than 6 months per year.

Total area: 17,909 hectares; Average area: 3,582 hectares.

Table S24. Immobilized capital of AAS by activity under AAS applied to privately-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Opening	Opening	Opening capital	Working	Immobilized
	environmental capital	manufactured capital	1 = 1.1 + 1.2	capital	capital
	1.1	1.2		2	3 = 1 + 2
<b>Farmer</b>	4,699.3	1,026.5	5,725.8	45.6	5,771.5
<i>Timber</i>	77.1	2.9	80.0	11.9	91.9
<i>Cork</i>					
<i>Firewood</i>	0.3	0.1	0.5	0.1	0.6
<i>Nuts</i>	11.4	46.6	58.0		58.0
<i>Grazing</i>	971.7	13.7	985.4	6.8	992.2
<i>Conserv. forestry</i>		22.7	22.7		22.7
<i>Aromatic plants</i>					
<i>Hunting</i>	305.8	24.5	330.3	9.9	340.3
<i>Commercial recreation</i>					
<i>Residential</i>		535.3	535.3	0.5	535.8
<i>Livestock</i>		303.6	303.6	13.0	316.6
<i>Agricultural crops</i>		76.9	76.9	3.4	80.3
<i>Amenity services</i>	3,333.1		3,333.1		3,333.1
<b>Government</b>	1,249.7	97.5	1,347.2	21.6	1,368.8
<i>Fire services</i>		43.2	43.2	14.6	57.9
<i>Recreation services</i>	194.2	10.3	204.5	1.5	205.9
<i>Mushrooms</i>	448.7	17.8	466.5	0.2	466.7
<i>Carbon</i>	354.1		354.1		354.1
<i>Landscape</i>		2.2	2.2	2.9	5.1
<i>Biodiversity</i>	40.3	24.0	64.3	2.4	66.7
<i>Water supply runoff</i>	212.4		212.4		212.4
<b>Total</b>	5,949.0	1,124.0	7,073.1	67.2	7,140.2

N: 2 farms with the presence of livestock species more than 6 months per year.

Total area: 970 hectares; Average area: 485 hectares.

Table S25. Immobilized capital by activity under AAS applied to publicly-owned forest farm with livestock presence in Andalusia (2010: €/ha).

Class	Opening	Opening	Opening capital	Working	Immobilized
	environmental capital	manufactured capital	1 = 1.1 + 1.2	capital	capital
	1.1	1.2		2	3 = 1 + 2
<b>Farmer</b>	5,312.0	136.0	5,448.0	16.8	5,464.8
<i>Timber</i>	636.4	2.1	638.5	0.4	639.0
<i>Cork</i>					
<i>Firewood</i>	34.4	0.0	34.4		34.4
<i>Nuts</i>	5.5		5.5		5.5
<i>Grazing</i>	615.3	2.5	617.8		617.8
<i>Conserv. forestry</i>		25.2	25.2	13.1	38.3
<i>Aromatic plants</i>	14.6	0.3	14.9	0.0	14.9
<i>Hunting</i>	107.7	13.3	121.0	1.6	122.6
<i>Commercial recreation</i>					
<i>Residential</i>		7.7	7.7		7.7
<i>Livestock</i>		47.2	47.2	1.6	48.8
<i>Agricultural crops</i>		37.6	37.6		37.6
<i>Amenity services</i>	3,898.1		3,898.1		3,898.1
<b>Government</b>	6,674.0	203.9	6,877.9	34.8	6,912.7
<i>Fire services</i>		55.2	55.2	18.5	73.8
<i>Recreation services</i>	2,183.7	97.9	2,281.6	6.5	2,288.1
<i>Mushrooms</i>	189.4	17.0	206.4	0.1	206.5
<i>Carbon</i>	745.7		745.7		745.7
<i>Landscape</i>	1,837.9	3.8	1,841.7	6.7	1,848.3
<i>Biodiversity</i>	560.0	30.0	590.0	3.0	593.0
<i>Water supply runoff</i>	1,157.3		1,157.3		1,157.3
<b>Total</b>	11,986.0	339.9	12,325.9	51.5	12,377.4

N: 13 farms with the presence of livestock species more than 6 months per year.

Total area: 53,923 hectares; Average area: 4,148 hectares.

Table S26. Immobilized capital of the case-study large *dehesa* and forest farms in Andalusia under refined System of National Account (rSNA) (2010:€/ha).

Class	Privately-owned <i>dehesa</i> farm			Publicly-owned <i>dehesa</i> farm			Privately-owned forest farm			Publicly-owned forest farm		
	WC	Co	IMC	WC	Co	IMC	WC	Co	IMC	WC	Co	IMC
1. Farmer	68.0	4,794.4	4,862.3	21.4	3,128.3	3,149.7	45.6	2,392.8	2,438.4	16.8	1,549.9	1,566.6
1.1 Wood forest products	1.3	1,871.4	1,872.7	6.9	1,729.8	1,736.7	12.1	80.5	92.5	0.4	672.9	673.4
1.2 Non-wood forest products	66.7	2,923.0	2,989.7	14.5	1,398.5	1,413.0	33.6	2,312.3	2,345.8	16.3	876.9	893.3
2. Government non-wood forest products	29.1	1,727.2	1,756.3	38.0	2,444.1	2,482.1	21.6	758.6	780.2	34.8	1,550.6	1,585.3
rSNA Farm (1 + 2)	97.1	6,521.6	6,618.7	59.4	5,572.3	5,631.7	67.2	3,151.4	3,218.5	51.5	3,100.4	3,152.0

Abbreviations: WC: is working capital; Co: is opening capital and IMC is immobilized capital.