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TITLE: THE DISAGGREGATION OF THE SAMEA OF SPAIN TO EVALUATE RESOURCES USE AND DAMAGE

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ABSTRACT:

The environmental analysis from the Social Accounting Matrix and Environmental Accounts (SAMEAs) needs a high disaggregation in order to capture the relationships of the activities where use and damage to the nature is produced. Thus we construct a SAMEA of Spain (2000/2004), to be applied in an open Leontief Model which gives us the embodied values (water/emissions). The table is based on the I-O Tables offered by the NSI, compiled with an industry technology assumption (Model B as shown in the Eurostat Manual) and for the water values, the activities mainly disaggregated are Agriculture, Livestock, Agri-Food industry and Hotels & restaurants; while for the emissions the Energetic, Chemical, Machinery & metallic products have incoming or outgoing remarkable flows. The model of the water accounts considers the surface water bodies and groundwater from the territory (being the most important information the Collection of water and the Physical Consumption), while the emissions comprise substances as the CH₄, NH₃, nitrogen and carbon compounds. For the analysis of the imported vertically integrated water values, as an alternative a table for the main countries from which Spain imports is constructed for the year 2000 (OECD I-O Tables; 2006 edition).