

ESSAY

Resolving Conflicts between Agriculture and the Natural Environment

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Abstract

Agriculture dominates the planet. Yet it has many environmental costs that are unsustainable, especially as global food demand rises. Here, we evaluate ways in which different parts of the world are succeeding in their attempts to resolve conflict between agriculture and wild nature. We envision that coordinated global action in conserving land most sensitive to agricultural activities and policies that internalise the environmental costs of agriculture are needed to deliver a more sustainable future.

Introduction

Agriculture is the most dominant land use on Earth and will remain so as the world's population and global food demand rise [1] (Fig 1). This poses a fundamental challenge to the natural environment, which requires access to many of the same resources as agricultural producers and is harmed by agriculture's external impacts [2,3]. Using land resources for agriculture prioritises crop and livestock production over the many other benefits that natural ecosystems provide and that agriculture displaces, including biodiversity, carbon storage, and water purification [4]. Governments also heavily support agricultural production in ways that are often bad for the environment, such as rewarding output or lowering input prices [5,6]. Very little is spent on actively mitigating the environmental impacts (Fig 1).

Here, we summarise how agriculture impacts the natural environment and then scrutinise the success of government agricultural policies that we believe offer the most promise for safeguarding nature while feeding a growing human population. We use economic and political theory to help explain why some measures are more prone to succeed than others, recognising that scientific understanding of a problem does not mean it will be solved [8]. Throughout, we touch upon examples from centres of agricultural production.

A Cultivated Planet

Agriculture's demand for land drives conversion of natural habitats, and this is arguably its largest environmental cost. Approximately 40% of ice-free land (4,300 million ha) is already covered by crops or used to raise livestock [7], and an additional 2.7–4.9 million ha of cropland



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Abbreviations: AES, agri-environment schemes; CRP, Conservation Reserve Program; GHG, greenhouse gas; IUCN, International Union for Conservation of Nature; NRA, nominal rate of assistance; OECD, Organisation for Economic Cooperation and Development; PS, producer support; PSE, producer support estimate; RMA, resource management act; VOP, value of production; WTO, World Trade Organization.

Agriculture The Environment And Trade Conflict Or Cooperation Conflict Or Cooperation

Jessica J Manson



Agriculture The Environment And Trade Conflict Or Cooperation Conflict Or Cooperation:

Decoding **Agriculture The Environment And Trade Conflict Or Cooperation Conflict Or Cooperation**: Revealing the Captivating Potential of Verbal Expression

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