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PUBBLICAZIONI

0251

note on Carbon Sequestration Policies in the European Union (pre-pub.)

This note examines the state of Carbon Farming (CF) policies in the European Union (EU), highlighting their potential to deliver significant public good benefits, such as improved soil health, air, quality, and climate mitigation. Existing mechanisms for encouraging carbon sequestration and evaluating alternative support scenarios are assessed, starting from analysing the proposed Regulation on carbon sequestration certification published by the Commission. It has also been analysed the integration of CF into the EU's Common Agricultural Policy (CAP) through cross-compliance measures, eco-schemes, and Rural Development programs. Additionally, the note explores potential CF support frameworks, including exclusive reliance on the CAP's first pillar, the voluntary carbon market, and mixed approaches. The analysis highlights several trade-offs: balancing CAP budget limitations with the need for stronger environmental measures, mitigating market uncertainty in the voluntary carbon market, and ensuring that certification costs do not deter farmer participation. Despite these challenges, the findings suggest that expanding CF within CAP, either as an alternative or complement to the voluntary carbon credit market, could enhance carbon sequestration and align EU agriculture with climate neutrality goals, particularly when supported by a structured certification system.

Angelo Frascarelli, Stefano Ciliberti, Paolo Emilio Bartolucci

0251

Evaluating the joint impacts of weather conditions on crop yields and quality: an application to durum wheat in Italy with implications for index-based insurances (pre-pub.)

CONTEXT. Agricultural production is closely linked to weather conditions posing significant risks to yields and quality, especially for typical Mediterranean crops such as durum wheat. To mitigate these risks, weather index-based insurances (WIs) have emerged as a vital tool for agricultural risk management. Unlike traditional indemnity-based insurance, WI rely on predefined thresholds of weather variables associated with damages. When the threshold is reached or exceeded, a pre-agreed payout is triggered, regardless of the actual physical and/or economic loss. Such a feature can bring to faster indemnities and reduced administrative costs for farmers. **OBJECTIVE.** This study aims to examine the role of WIs in addressing risks related to both yields and quality damages for durum wheat. It analyses and assess the feasibility of WIs, based on meteorological variables linked to yield and quality parameters (such as hectoliter weight and protein content). **METHODS.** Official data were used, related to yields and qualitative parameters from multiple experimental trials on durum wheat across Italy over the period 1994-2023. First, damage thresholds related to rainfall and temperature were identified using Boundary Line Analysis (BLA). Canonical Variate Analysis (CVA) was then applied to determine which weather variables have the greatest influence on yield and quality reductions. **RESULTS AND CONCLUSIONS.** The results indicate that developing a unique typology of WI for highly heterogeneous area (such as Italy) is unfeasible, due to extremely variable factors such as crop phenology, pedology, and local microclimatic conditions that affect differently durum wheat. However, the study is particularly relevant because it innovatively contributes to identifying key weather variables – such as rainfall and temperature – which significantly and consistently affect yields and quality parameters during specific phenological phases and production stages.

Angelo Frascarelli, Andrea Onofri, Stefano Ciliberti, Paolo Emilio Bartolucci

0241

Is CAP coherence between redistributive and environmental goals: do the allocation criteria for direct payments play a role? (pre-pub.)

The Common Agricultural Policy (CAP) has incorporated environmental sustainability in addition to traditional goals aimed at enhancing farmers' incomes. However, such a policy intervention is not free from drawbacks and limitations. We focus on decoupled direct payments (DDP) investigating whether and how the choice of the criteria for their allocation across farmers can impact on CAP coherence and effectiveness, that is the ability to jointly achieve redistributive and environmental goals. Based on a Spearman correlation analysis performed on the FADN dataset including farms from 28 European countries in the period 2015-2017, the present paper sheds lights on the disputed role of land as criterion of allocation of DDP. Despite a high level of heterogeneity of farms characteristics across the EU,

quantitative evidence reveals the existence of alternative criteria of allocation of these public aids which can robustly improve policy coherence and therefore CAP effectiveness in matching equity and sustainability.

Angelo Frascarelli, Stefano Ciliberti, Giada Mastandrea, Paolo Emilio Bartolucci

Link: https://www.researchgate.net/publication/382820869_The_CAP_coherence_between_redistributive_and_environmental_goals_do_the_allocation_criteria_for_direct_payments_play_a_role

[382820869_The_CAP_coherence_between_redistributive_and_environmental_goals_do_the_allocation_criteria_for_direct_payments_play_a_role](https://www.researchgate.net/publication/382820869_The_CAP_coherence_between_redistributive_and_environmental_goals_do_the_allocation_criteria_for_direct_payments_play_a_role)

[2025]

Dall'idea all'impresa agricola. Guida all'avvio e allo sviluppo dell'azienda. Gli interventi per il ricambio generazionale nella PAC 2023-2027.

Coautore, assieme al Professore Stefano Ciliberti, del capitolo 3 "Gli interventi per il ricambio generazionale nello Sviluppo Rurale 2023-2027" della guida Coldiretti della serie "InfoPAC".

Coldiretti

[2024]

GreenItaly 2024. Un'economia a misura d'uomo contro le crisi.

Coautore, assieme al Professore Angelo Frascarelli, del capitolo 3.1 "Agroalimentare" del rapporto 2024.

Fondazione Symbola

ESPERIENZA LAVORATIVA

Borsista di ricerca

Dipartimento di Scienze Agrarie, Alimentari e Ambientali - Università degli Studi di Perugia [15/05/2024 – Attuale]

Città: Perugia Paese: Italia Sito web: <https://dsa3.unipg.it/it/ricerca/14-ricerca/94-unita-di-ricerca-bioeconomia>

Titolare di una borsa di ricerca presso l'Unità di Bioeconomia del Dipartimento di Scienze Agrarie, Alimentari e Ambientali dell'Università degli Studi di Perugia.

Progetto di ricerca: Analisi di impatto e proposte per la migliore applicazione delle politiche sulle tematiche del primo pilastro della PAC sul territorio della Regione Sardegna.

Responsabile scientifico: Prof. Angelo Frascarelli

Collaboratore occasionale

CESAR - Centro per Sviluppo Agricolo e Rurale [10/02/2025 – 31/03/2025]

Città: Casalina di Deruta (PG) Paese: Italia

E' stata svolta per conto del CESAR una attività di raccolta dati presso un'azienda agricola che ha intrapreso un percorso di sostenibilità ambientale. Nello specifico, tale lavoro ha previsto la raccolta di dati utili alla realizzazione di uno studio in conformità alla ISO-14064-1, attestante le emissioni aziendali.

Tirocinante

Federazione Regionale Coltivatori Diretti [15/01/2024 – 06/02/2024]

Indirizzo: Via Settevalli 131/F, 06124 Perugia (Italia)

Assistenza agli operatori del CAA circa la ricezione del piano colturale. Consulenza agli agricoltori nei seguenti ambiti:

- misure dei Complementi per lo Sviluppo Rurale, annualità 2024
- domanda unica di pagamento, annualità 2024

Consulenza tecnica nei seguenti ambiti:

- fiscalità in agricoltura
- mezzi per l'agricoltura di precisione
- strumenti della politica agraria nazionale
- I e II Pilastro della Politica Agricola Comune

Tirocinante

Hesalis società Agricola SRL [03/02/2020 – 08/09/2020]

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