

# 花蓮農改場循環農業的技術在休閒農場的應用與推廣-以頭城農場為例

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## 摘要

頭城農場創立於民國 69 年，位在宜蘭北端頭城鎮上，東鄰太平洋，地理環境屬於雪山山脈的淺山地區，其佔地 120 公頃，擁有豐富的自然生態、優美山林與友善農業資源。近年來頭城農場從農業特色旅遊出發，結合在地資源，專注於發展農業體驗活動、環境教育與特色餐飲服務，其綠色廚房與生態飲食獲得各方的好評，更在 2019 年取得全球永續旅遊委員會 (GSTC: Global Sustainable Travel Committee ) 的永續旅館認證，雖然是四十年的老店，但是因為在永續旅遊的目標上邁進，使得農場有了嶄新的風貌，更有機會邁向國際成為地方創生的新動力。頭城農場近期在友善農業資源的管理與轉化運用，使農場在媒體曝光與國際視聽上屢創佳績，其背後創新的動力來自於花蓮農改場長期的輔導與循環農業技術的轉移。花蓮農改場首先盤點農場資源的流動與使用，隨後為頭城農場整理出食物、農業以及生態等三個農業循環系統，方便農場可以量化資源使用，提升資源使用與再利用的效率；並將科學堆肥、生物炭、野花草毯等技術，轉移給頭城農場，輔導農場服務產品開發團隊大量應用於綠色廚房餐食服務、環境教育解說（例如，生態農法、田邊好幫手與獨居蜂旅館等）、開發療育系列小物（例如，蔬菜娃娃、草毯相框、樹木盆栽、海漂藝術、大地之籽等）。其循環農業相關活動、教育解說、產品開發等之設計應用多元、饒富趣味與吸引力，極具教育推廣效益，讓頭城農場成為循環農業典範，可供其他休閒農場與農民效法。

**關鍵詞：**循環農業、永續旅遊、環境教育、生態飲食、特色餐飲服務

# **Application and Promotion of Circular Agricultural Techniques by the Hualien District Agricultural Research and Extension Station in Leisure Farms: A Case Study of Toucheng Leisure Farm**

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## **Abstract**

The Toucheng Leisure Farm was established in 1980. It is located in Toucheng Township in northern Yilan County and faces the Pacific Ocean on the east. Toucheng Leisure Farm is located in the foothills of Taiwan's Snow Mountain Range. Covering 120 hectares, the farm is characterized by a rich natural ecosystem, breathtaking mountain scenery, and eco-friendly agricultural resources. Adopting the agricultural characteristic tourism model and utilizing local resources, Toucheng Leisure Farm has focused on developing agricultural-based experiences, environmental education, and specialty dining services; its Green Kitchen and sustainable meal options have gained wide critical acclaim. In 2019, the farm even obtained the sustainable hotel certification awarded by the Global Sustainable Travel Committee. Although Toucheng Leisure Farm has already been in business for 40 years, its constant effort in moving toward the goal of sustainable tourism has provided the farm with a brand new outlook. As the farm gains greater international recognition, it may help drive more local revitalization. The management and transformation of eco-friendly agricultural resources by Toucheng Leisure Farm have resulted in consistently positive media exposure, both locally and internationally. The innovation efforts of Toucheng Leisure Farm is the result of long-term counseling and circular agricultural technique transfer assistance provided by the Hualien District Agricultural Research and Extension Station. The station first prepared an inventory of the flow and usage of the farm's resources and subsequently developed three circular agricultural circulation systems for Toucheng Leisure Farm, namely the food, agricultural, and ecological system. These systems were developed to help the farm in the quantification of resource use as well as to enhance the efficiency of resource use and reuse. The Hualien District Agricultural Research and Extension Station also transferred techniques such as scientific compost, biochar, and wildflower sod to the personnel of Toucheng Leisure Farm. Moreover, the station has counseled the farm's service and product development team to apply these techniques in the Green Kitchen catering services, environmental education briefings (e.g., ecological farming,

Tianbian Good Helper, and solitary bee hotel), and the development of small natural products featuring attractive design (e.g., vegetable dolls, sod photo frame, bonsai trees, sea debris art work, and the seed of the land). The circular agricultural activities, educational briefings, and relevant products are diversified, fun, and attractive. These activities and products have a considerable educational promotion role and make Toucheng Leisure Farm a model of successful circular agricultural application for other leisure farms and farmers.

**Keywords:** Circular agriculture, sustainable tourism, environmental education, sustainable diet, specialty dining service

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