

The calculation of the CO₂ footprint on four West Coast Potato Farms.

The Cool Farm Tool – Potato (CFT-Potato) is a spreadsheet program that allows the calculation of the amount of CO₂ equivalents that it costs to produce one ton of potato. The spreadsheet was adapted from an original generic version of the tool, and completed for potato production in diverse production areas in the world applying different levels of technology. The CO₂ embedded in chemicals, energy costs of Irrigation with pumps powered by diesel or electricity from the grid, with a center pivot, a rain gun, drip irrigation and flooding and energy cost for extracting water from deeper sources were added. Additionally we added data for grading, washing, store loading and unloading, the application of a sprout suppressant and storage with ventilation of ambient air or forged refrigeration.