ardship Inde	x for Speciality Crops - Metric Calculator	Website	: http://www.stewards	hipindex.org/metric_calculator.ph
Category	Outcome-based		modities covered	
Obiective	"to advance both optimal production and		Dry pea, potato	
Oblective	strong environmental protection by offering a suite of science-driven metrics empowering producers to measure on-farm practices (i.e. water use, nitrogen use, etc.) accurately and		s covered None	
	consistently. Metric data give consumers, food buyers, and producers a common language for discussing the impact of farming practices – and the meaningful stewardship activities of U.S. farmers"	Indic	ators covered	
Geographical	USA		Soil carbon	Energy use
applicability Functionalities	Provide a footprint value/metrics	1	Water use	Nutrient use
Target audience	Farmers, food supply chain managers and general public			
Developers	SISC Coordinating Council organizations - latest update: 2013			
Format	Excel sheet to download			
Cost (tool and data)	Free			
Past or current users	unknown			

O Data

inputs

Data requirements	Primary data required	Default values	
Environmental conditions	Farm location, climatic region, farmed area	No	
Crop management	- Management areas: number of crops in rotation, acres planted, date of last harvest, fertilisation (date rage, product, amount applied per acre, %n, %P2O5, %K2O), nitrate in irrigation water, soil test results (dates, sample area, TOC, soil series, soil texture, recommended P application)	 Fertilization: embedded energy, lbs N/acre, lbs P/acre Nitrogen fixed from cover crop or previous legume crop: average fixed lbs N/acre, percent N in plant tissue, above ground biomass, below ground biomass Soil test: SOM potential 	
Carbon sequestration/storage	No	No	
Livestock	No	No	
Energy use	Electricity, diesel, gasoline and other fuels usage	No	
Primary processing	No	No	
Water	Irrigation, water use	- Irrigation: total N in irrigation water	
Transport	No	No	
Others	No	No	

• Scope

Farm level

Supply chain

• Ease of use for the data collect Relatively easy, but may require specific documentation, fairly quick to fill - Qualitative data entries can be easily completed by the user. However, unless the producer has done a soil assessment, data on soil organic matter, moisture and pH can be hardly found. Quantitative data related to fertilizers and pesticides will require the user to search through its documents, but these documents should be accessible. Data on energy use (electricity and fuel) are usually easily accessible to producers. However. data on N in irrigation is much more difficult to obtain directly from producers.

• Modelling methods

Consistency of the model with the goal and scope of the tool
Consistent - model allows the reporting of specific environmental stweardship metrics

•	Transparency and quality of documentation	Guidance document: Yes - Guidance document available online http://www.stewardshipindex.org/docs/Guide-SISC-Calculator_2013-Oct.pdf Methodology document: Guidance for some metrics (Applied water use efficiency, nitrogen use, phosphorous use and soil organic matter) are available online: http://www.stewardshipindex.org/working_metrics.php
•	Conformity of the methodology with the current state-of-the-art agronomic and environment sciences	Consistent - calculations are straightfoward as the tool does not perform major manipulations of data
0	Methodology	Simple calculations to convert information gathered into the defined units of the different metrics reported
0	Dataset sources used for modelling	Collected from various empirical works

Outputs / Results

Q Results □ Detailed summary of results in tables

O Analysis No analysis available

• Limits of the tool/model

Results are not put in perspective (i.e. comparable to averages) and cannot compare with alternative scenarios Simple metric dashboard as an output (no conversion into potential impacts)

