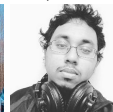
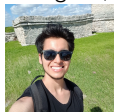


Analysis of components of food production for sustainability in Canada



Chris Bunio, Cuneyt Akcora.

S. Moraga ¹, E. Pacheco ², T. Pender ³, I. Vinícius ⁴, S. Yeal ⁵



¹Department of Mathematics. Simon Fraser University. Canada. ²Department of Mathematics and Statistics, University of Calgary.
³Department of Mathematics and Computer Science, University of Lethbridge. ⁴Department of . . . , University of . . .
⁵Department of . . . , University of . . .

August 26, 2021

Outline

1 Introduction

2 Interpretations and Steps Forward

Motivation problem

Goal

Here ...

Input
Data



**Blackbox
model**



Output
Information

Outline

1 Introduction

2 Interpretations and Steps Forward

Availability of information for producers



Availability of information for producers



- Information is power!

Availability of information for producers



- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.

Availability of information for producers



- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.
- Needs to be available/intelligible to producers.

Availability of information for producers



- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.
- Needs to be available/intelligible to producers.
- The general sentiment conveyed by industry participants:

Availability of information for producers



- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.
- Needs to be available/intelligible to producers.
- The general sentiment conveyed by industry participants:
 - There needs to be a change in the way that information is disseminated.

Availability of information for producers



- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.
- Needs to be available/intelligible to producers.
- The general sentiment conveyed by industry participants:
 - There needs to be a change in the way that information is disseminated.
 - It used to be that the when/where/how questions of crop production were passed by word of mouth: “Do this because it has always worked.”

Availability of information for producers



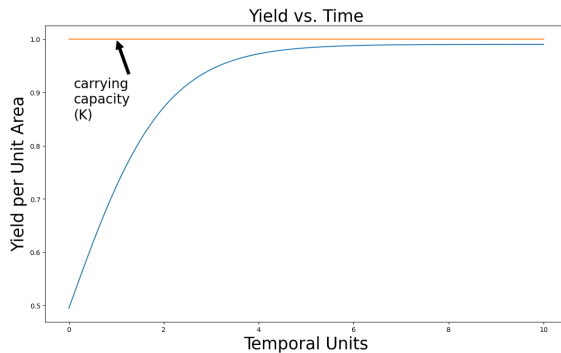
- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.
- Needs to be available/intelligible to producers.
- The general sentiment conveyed by industry participants:
 - There needs to be a change in the way that information is disseminated.
 - It used to be that the when/where/how questions of crop production were passed by word of mouth: “Do this because it has always worked.”
 - This is no longer tenable with the rapidly changing climate/environmental conditions.

Availability of information for producers

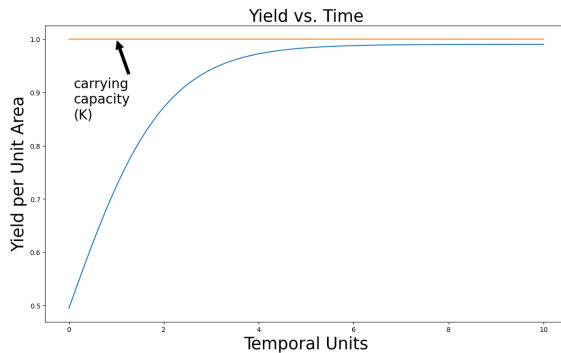


- Information is power!
- Currently, the relevant information resides in technical journals that is penetrable only for researchers and experts in the field.
- Needs to be available/intelligible to producers.
- The general sentiment conveyed by industry participants:
 - There needs to be a change in the way that information is disseminated.
 - It used to be that the when/where/how questions of crop production were passed by word of mouth: "Do this because it has always worked."
 - This is no longer tenable with the rapidly changing climate/environmental conditions.
 - Over the coming decades that will span a contemporary producer's career, they will invariably need to adjust their approaches.

What can be gleaned from the data?



What can be gleaned from the data?



- $K = K(x_1, x_2, \dots, x_n)$, where no x_i is a temporal variable.

Factors Affecting K

Factors Affecting K



Factors Affecting K



References



OECD, (co-author(s) if any) (year), (Title), <https://data.oecd.org/canada.htm>.

**smoragas@sfu.ca,
sites.google.com/view/sebanthalas**