

Sequence 1 : Introduction to mathematical programming using GAMS

Unit 1.2 : Introduction to GAMS

Lesson 4 – Writing my first model in GAMS

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ModelEco

File structure

Input file : .gms file	
set (indices in algebraic writing)	INDICES
scalar, parameter, table (exogenous variables)	DATA
variable (endogenous variables) equation (equations : objective function and constraints) model (model name)	MODEL REPRESENTATION
solve (instructions to solve the model) display (instructions to display results)	MODEL RESULTS

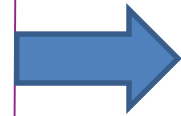
1. Declaration

2. Attribution

Writing rules

- Use words starting with a letter and that contain up to 10 characters
- ~~wheat, maize~~
- ~~labour force~~
- Separators:
 - ;
 - ,
 - /
- SET= set ; TABLE = table
- variable = variables ; PARAMETER = PARAMETERS

- ▶ Indices
- ▶ Data
- ▶ Variables
- ▶ Equations
- ▶ Objective function



First model

Data :



Constraints :

2000 hours



50 hectares



Objective :

Max

