

Costs and Returns of Seaweed Production, 2008 Data Processing System

Rationale

The growing importance of seaweeds as an industry prompted the Bureau of Agricultural Statistics (BAS) to conduct survey of costs and returns of seaweed production in five (5) producing provinces. Data on costs and returns are voluminous, hence, the need for efficient system highlighted the development of computerized data processing system. But the project's duration lasts only for six (6) months and special processing system that requires ample time to develop the data processing program are dropped from the options. Instead, MS Excel which is commonly used in the bureau was given more considerations. MS Excel is capable of complicated mathematical calculations and transparent to facilitate data cleaning because raw data are inputted in spreadsheet.

Objectives

The primary goal of this processing system is to generate costs and returns of seaweed production. Specifically, it aims to generate output tables on:

1. Socio-economic characteristics of seaweed farmers
2. Farm characteristics
3. Farm practices and input usage
4. Average costs and returns of seaweed production per hectare, per farm and per kilogram
5. Production, marketing information, access to credit and extension services.

Scope

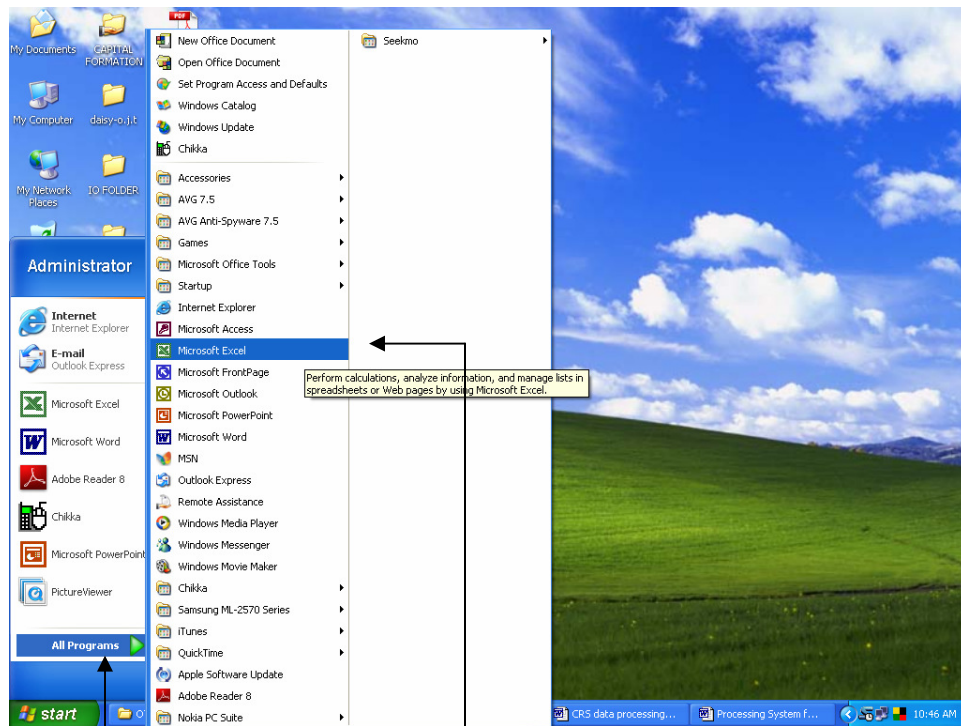
This processing system is intended only for costs and returns of seaweed production conducted in the provinces of Palawan, Bohol, Maguindanao, Zamboanga Sibugay, and Tawi-Tawi. The activities covered are as follows:

1. Data Preparation
2. Data entry operation
3. Data review and data cleaning, and
4. Generation of output tables

The Application Software


This processing system is MS Excel-based. It contains files with spreadsheets/worksheets capable to perform complicated mathematical calculations. Aside from the formulas attached to perform calculations such as totals, average, percentage etc., computations and generation of tables can be facilitated by the use of hyperlink.

How to access MS Excel



In your desktop, click **Start**, **All Program** and then **MS Excel**

The MS Excel program will appear on the screen.

To open file, click **Open**  button of just press **Ctrl O**, then choose the file to be opened in the open dialog box.

To save file, either you click **Save**  button , or just press **Ctrl S**.

Requirements before the data entry

1. All questionnaires are edited
2. All questionnaires are sorted by province, by culture method and by variety
3. Each questionnaire has been assigned a unique ID number
4. Copy the data processing system to your computer, and
5. Start the data entry operation.

Some Don'ts during the data entry:

1. Do not use *cut and paste* command. However, you can use *copy paste* command. For erroneous entry, just use the delete key.
2. Don't insert columns and rows for it may affect the formulas that are linked between and among worksheets.

The data entry operation

To start the data entry operation, open the MS-Excel application software.

Open the file in the predetermined folder. These are in folder named CRS seaweeds

The worksheet for data entry operation are found in each \CRS Seaweed\. Open those files and start data entry operation.

5. Highest educational Attainment
 - 01 – Elementary
 - 02 - Elementary graduate
 - 03 - High School level
 - 04 - High Scholl graduate
 - 05 - College level
 - 06 - College graduate
 - 07 - Vocational
 - 08 - Post graduate
 - 09 - No schooling
6. Main occupation
 - 01 - Official of Government and Special-Interest Organizations, Corporate Executives, Managers, Managing Proprietors & Supervisors
 - 02 - Professional
 - 03 - Technician and Associate Professionals
 - 04 - Clerks
 - 05 - Service Workers & Shop & Market Sales Worker
 - 06 - Farmers, Forestry Workers and Fishermen
 - 07 - Trades and Related Workers
 - 08 - Plant & Machine Operators & Assemblers
 - 09 - Laborers & Unskilled Workers
 - 10 - Special Occupations
7. Number of years engaged in seaweed production – input whole number
8. Name of respondent – input the verbatim answer
9. Contact number – input the response (cell number of telephone number)
10. Relationship of respondent to owner / operator – input the code
 - 1 – Owner / operator
 - 2 – Spouse
 - 3 – Son / Daughter
 - 4 – Others

Block C – information on farm characteristics should be inputted in this worksheet such as:

1. Total area of all seaweed farms – should be in hectare (4 decimal places)
2. Number of seaweed farms – should be whole number
 - a. Farm number
 - b. Physical area of the farm – input the area in hectare (4 decimal places) in the corresponding farm #
 - c. Variety planted – input only the code in the correspond farm #
 - 1 - Cottonii
 - 2 - Alvarezii
 - 3 - Gracilaria
 - 4 - Caulerpa
 - 5 - Spinosum
 - 6 - Others (specify)

- d. Culture method – input only the code in the corresponding farm #
 - 1 - Monoline floating
 - 2 - Monoline bottom
 - 3 - Triangular
 - 4 - Others (specify)
 - e. Farm location – input only the code in the corresponding farm #
 - 1 - Inside the barangay, inside the municipality
 - 2 - Outside the barangay, inside the municipality
 - 3 - Outside the municipality, inside the province
- Number of variety planted –
 Number of culture method adopted –

3. Seaweed focus farm number

Size of focus area

Ratio of focus area to farm area

- 3.1 Month planted – } Input only the codes
 3.2 Month harvested – }

01 - January	07 - July
02 - February	08 - August
03 - March	09 - September
04 - April	10 - October
05 - May	11 - November
06 - June	12 - December

3.3 Number of croppings in 2007 – should be whole number

3.4 Number of harvests per cropping – should be whole number

Block D – information on farm investment should be inputted in this worksheet.

Input only the code of each farm investment.

Code **Farm structures**

1	Farm office
2	Farm house
3	Storage of supplies
4	Farm laboratory
5	Caretaker house
6	Drying platform
7	Others structures

For code 7, input the responses on other farm structures

Input the responses found in the questionnaires from column 2 to 14

Code	Farm machines, tools and equipment
8	Generator
9	Engine
10	Boat
11	Tricycle
12	Pick up
13	Van
14	Truck
15	Raft (bamboo)
16	Raft (styrofoam)
17	Paddle
18	Mesh net
19	Goggles/snorkling mask
20	Cultivation frame
20.01	Sinker/Anchor
20.02	Floater (styrofoam)
20.03	Floater (plastic bottles)
20.04	Floater (PVC pipe)
20.05	Pole (concrete)
20.06	Pole (bamboo/mangrove)
20.07	Polyethylene rope (#6-7)
20.08	Polyethylene rope (#10)
20.09	Polyethylene rope (#14)
20.10	Polyethylene rope (others)
20.11	Monofilament # 110 test lbs
21	Bolo/knife
22	Digging bar
23	Hammer/mallet
24	Gas lamp
25	Basket
26	Crate
27	Weighing scale
28	Gloves
29	Plastic cover
30	Others

For code 30, input the responses on other farm investments.
Input the responses found in the questionnaires from column 2 to 14

Block E – information on material inputs and supplies should be inputted in this worksheet. Beware of the mode of acquisition.

For item with mode of acquisition code 1 – all entries should be in the columns of PURCHASED. This item goes into CASH COST

For item with mode of acquisition code 2 – all entries should be in the columns of OWN PRODUCED. This item goes to IMPUTED COST

For item with mode of acquisition code 3 – all entries should be in the columns of RECIEVED. This item goes to NON-CASH COST

For item with mode of acquisition code 4 – all entries should be in the columns of OTHER MODE/S. This item goes in any of the above-cited COST depending on the mode of acquisition.

Input the responses on Quantity (column 7) and Value (column 8).

Block F – information on labor inputs should be inputted in this worksheet. Input only the code of each farm activity.

Code	Farm Activity
1	Farm site preparation
1.1	Installation of cultivation frame
1.2	Cutting of grasses, removal of predators
2	Seedling selection and preprn.
3	Hauling of seedlings
4	Planting
5	Care of crops
6	Harvesting
7	Hauling of produce
8	Drying
9	Packing
10	Others

Beware of disaggregation by sex, input the (i) total mandays found in columns 5, 9, 13 and 17; (ii) prevailing wage rate found in column 21; value of hired labor input found in column 18 for CASH COST and column 19 for NON-CASH COST; and (iii) the value of food expenses found in column 20.

Block G – information on other production costs should be inputted in this worksheet. Be cautious of the data to be inputted.

Entries found in column 2 of the questionnaire should be inputted as CASH COST.

Entries found in column 3 of the questionnaire should be inputted as IMPUTED COST.

Entries found in column 9 (Quantity) and column 10 (Value) of the questionnaire should be inputted as NON-CASH COST.

Block H – information on production and disposition should be inputted in this worksheet. Be cautious on the data to be inputted. All entries in this block should in fresh form.

Block I to L – information on buyer information, problems encountered, access to credit, and other information should be inputted in this worksheet. Be cautious on the data to be inputted.