A review of Human Dimension Indicators in the NPESR of Japan
(PICES Section Human Dimension)

Fisheries Research Agency JAPAN
Masahito Hirota
Fisheries Management Group
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Background

PICES S-HD NPESR and WOA workshop, June 2013～2 meetings was held in Hawaii and Nanaimo.

Human dimension indicators of Japan

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Human Dimension Index of Japan
<table>
<thead>
<tr>
<th>Variable</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landings and catch (amount) in EEZ, outside EEZ</td>
<td><a href="http://www.maff.go.jp/j/tokei/kouhyou/kaimen_gyosei/">http://www.maff.go.jp/j/tokei/kouhyou/kaimen_gyosei/</a></td>
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<td>marine aquaculture production (value and amount)</td>
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<tr>
<td>other non-commercial fishing</td>
<td><a href="http://www.mlit.go.jp/common/000162415.pdf">http://www.mlit.go.jp/common/000162415.pdf</a></td>
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<tr>
<td>Fishing costs</td>
<td><a href="http://www.maff.go.jp/j/tokei/kouhyou/gyokei/">http://www.maff.go.jp/j/tokei/kouhyou/gyokei/</a></td>
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<td>fishing vessels (number by gear type, size and tonnage)</td>
<td><a href="http://www.library.maff.go.jp/library/list_27-2.htm">http://www.library.maff.go.jp/library/list_27-2.htm</a></td>
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<td>fishing vessel power (HP)</td>
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<td>fishing companies (number)</td>
<td><a href="http://www.jfa.maff.go.jp/j/kikaku/wpaper/h20_h/trend/1/sankou_4.html">http://www.jfa.maff.go.jp/j/kikaku/wpaper/h20_h/trend/1/sankou_4.html</a></td>
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<td>fishing effort(by gear type)</td>
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<td>CPUE</td>
<td><a href="http://abchan.job.affrc.go.jp/">http://abchan.job.affrc.go.jp/</a></td>
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<td>commercial fishers (numbers)</td>
<td><a href="http://www.maff.go.jp/j/tokei/census/fc/">http://www.maff.go.jp/j/tokei/census/fc/</a></td>
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<td>mortality/injury rates (absolute and relative)</td>
<td><a href="http://www.mlit.go.jp/maritime/unkohrohm/unkoh3.files/link-data/1sisyousaigaihasseijouyounosu_i42-h22_.pdf">http://www.mlit.go.jp/maritime/unkohrohm/unkoh3.files/link-data/1sisyousaigaihasseijouyounosu_i42-h22_.pdf</a></td>
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<td>first wholesale value</td>
<td><a href="http://www.maff.go.jp/j/tokei/kouhyou/suisan_ryutu/santi_ryutu/">http://www.maff.go.jp/j/tokei/kouhyou/suisan_ryutu/santi_ryutu/</a></td>
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<td>value added</td>
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<td><a href="http://www.jfa.maff.go.jp/j/bousai/haigosyuurakutyousa.html">http://www.jfa.maff.go.jp/j/bousai/haigosyuurakutyousa.html</a></td>
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<td>fishing ports (number)</td>
<td><a href="http://www.jfa.maff.go.jp/j/gyoko_gyozyo/g_zyoho_bako/gyoko_itiran/sub81.html">http://www.jfa.maff.go.jp/j/gyoko_gyozyo/g_zyoho_bako/gyoko_itiran/sub81.html</a></td>
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<td>Gini coefficient—equality?</td>
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<td><a href="http://www.maff.go.jp/j/syouan/tikusui/gyokaig_kenku/busitu/01d_zyokyo.html">http://www.maff.go.jp/j/syouan/tikusui/gyokaig_kenku/busitu/01d_zyokyo.html</a></td>
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<td>per capita consumption</td>
<td><a href="http://www.stat.go.jp/data/kakei/npsf.htm">http://www.stat.go.jp/data/kakei/npsf.htm</a></td>
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<td>fish exports</td>
<td><a href="http://www.customs.go.jp/toukei/info/">http://www.customs.go.jp/toukei/info/</a></td>
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<td>fish imports</td>
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<td>inventories of fish products</td>
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<tr>
<td>laws etc</td>
<td><a href="http://law.e-gov.go.jp/cgi-bin/dxsearch.cgi">http://law.e-gov.go.jp/cgi-bin/dxsearch.cgi</a></td>
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There are data of Each Fish species, Products, city easily download from website as Excel file.
Saba no heshiko
Mackerel preserved in salt and rice bran

In Fukui, the winter mackerel are rich and fatty. They are most plentiful from February to early spring. During this season, it is traditional to preserve the fish so they can be eaten year-round. Whole mackerel are opened, cleaned and salted, then packed in rice bran and left to ferment for a year. Pieces of the fish are lightly grilled, often eaten as a snack when drinking sake.

From “Japan’s taste secrets” by MAFF
During the heyday of herring fishing, large Herring Mansions (Nishin Goten) were built by wealthy fishermen to process the fish and as a residence for themselves and their employees. A large preserved herring mansion dating back to the end of the 19th century stands on a hill beside the water about five kilometers outside central Otaru.

(From: http://www.japan-guide.com/)
But there are only PDF files for example, no commercial sectors

But, several statistics written in Japanese, and formatted by PDF... (IUU, Injury, mortality, pleasure)
Our Goal

How use the Index mutually & effectively to assess Human Dimension members countries

Result and problems

1. We can cover the all index data completely
2. but these are written in all Japanese (no English)
3. How solve this basically problem?

(Should we make the list of name of a fish species, products and others? We also have a local name)
Weak point of statistics of Japan Index
Weak point of our statistics for the Index

Using the statistics, we must watch two hidden problem in it for human dimension analyses

This Problem is...

  Data (information) amount & quality are different between each data categories.

It is divided more two problems.

  1 but seafood industry also doesn’t cover all detailed they have inclined to domestic wholesale system date.
  2 They can’t shift their sight to a growing sectors.
For example; from a view of commodity chain

- Landing & forward
- Domestic Wholesale market

- Retail data
- Processed data

- Between private sector trade data
  - Direct selling data
  - Self using data
  - Local commodity chain data

- Employment, Income, factory data
  - Employment data
  - Income
  - Added value data

- Import-Export data
  - Organization & system
  - Distribution channel
  - Sub data related HD
For Human Dimension Index

Why
In Japan, the whole sale market system has been managed by government sector as main supply system for people. Therefore, These statistics have been made detailed

That’s why,
1  They have inclined to domestic wholesale official date.
2  But they don’t have enough data, such as Export data, private sector’s data (processors, distributer)

Are there same problem in other countries? (one data is detail, the other is no detail)
How to do to solve these problems?

1. As the basic problem is...
   
   A part of statistics are formatted by PDF, and most statistics are written in Japanese. How to solve it?

2. In Japan, there are many gaps between the statistics in the Human Dimension Index, one information are detail and the others are lough. How to solve this problem?

3. How to assess the culture?
Weak point of our statistics for the Index

- Employment (number)
- Multi Effect (info exchange...)
- Added value (margin...)
- Social infra (facility...)
- Industrial infra (diversity...)
- Education sys (security, skill...)
- Income (money...)

Well-Being

Security
- Basic material
- For good life

Health
- Good social relations

Freedom of choice and action

Local people job

Time

consumer	collect	Pasar
cottage
Demand and supply in JAPAN 2012

<2010th: estimation value>
Fisheries annual report

Production
474
[Food 409]
[No-food 65]

Import
484
[Food 327]
[No-food 157]

Export
73
[Food 70]
[No-food 3]

Stock + - ▲1
[Food ▲14]
[No-food 13]

No-food Consumption
206

Food Consumption
680

( unit: 10MT)

Food consumption / Production
<62.03%>

Data: 「Fisheries annual report」