

Attachment 2:

Capacity Development Project on Safe Use of Wastewater in Agriculture (WHO, UNW-DPC, FAO, UNEP, UNU-INWEH, ICID, and IWMI)

Format and Requirements for Country Reports/Papers¹

As a part of the *Capacity Development Project on the Safe Use of Wastewater in Agriculture* (jointly convened by WHO, UNW-DPC, FAO, UNEP, UNU-INWEH, ICID, and IWMI), there will be opportunity for the participating countries to share their work in the regional workshops. In this respect, the representatives of each participating country are expected to prepare a country report. Please follow the following format.

Title: Wastewater Production, Treatment, and Use in [name of country]

Wastewater production and treatment: Recent estimate on the volume of wastewater generated by municipal and industrial sectors (million/billion cubic meters per year); dominant wastewater treatment type (primary, secondary, or tertiary); major constraints to wastewater treatment (Maximum 150 words).

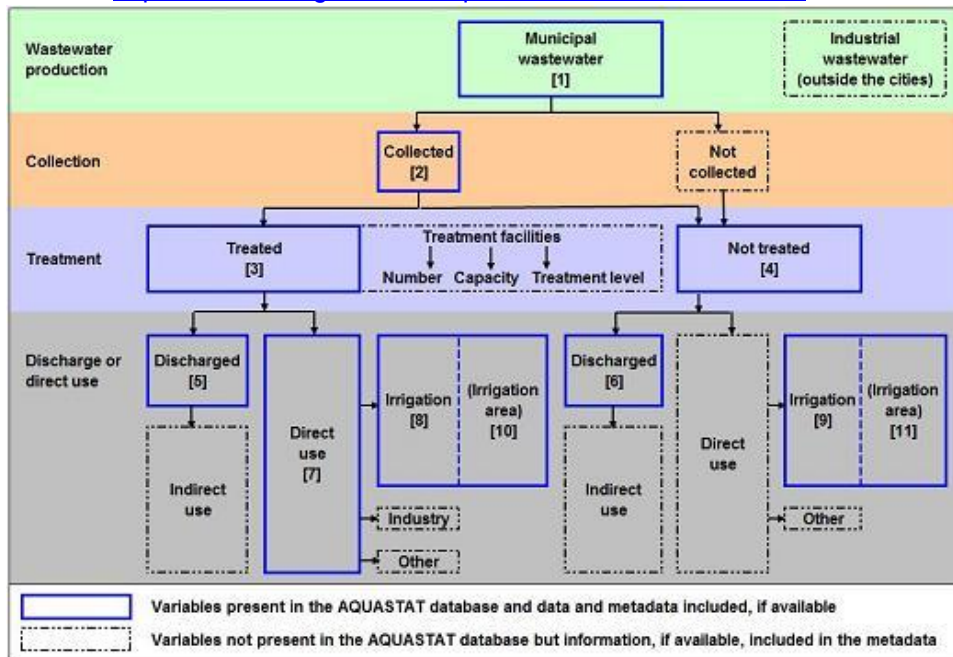
The country is currently having problems with its urban pollution since there is no effective waste management in place. This becomes especially problematic in highly populated and coastal area; its happened due to the country still lacks facilities to support wastewater management. at present Wastewater production is mostly considered as a household responsibility. Based on the 2003 survey 6% of household have toilets with septic tanks, but government program thought Ministry of Infrastructure and secretary state Environment has produced three ponds. To prevent the quality of agriculture miscellaneous drainage from pollution, improve the fundamental living environment and contamination with ground water which Government through Ministry of infrastructure and secretary state of environment has been implemented three treatments pond in Dili and plan to extend to 15 cities in Timor-Leste.

Wastewater use/disposal: Information on area (estimates of number of hectares) irrigated with different forms of wastewater in formal sector (treated wastewater), and informal irrigation sector (untreated, inadequately treated, and/or diluteduntreated wastewater); reason(s) if estimates on wastewater irrigation are not available or old; major crops and crop rotations irrigated with treated or untreated wastewater (Maximum 200 words).

Wastewater in urban area and rural community, with aim to contribute to sound water recycle in agriculture area by preventing the quality of agriculture miscellaneous drainage from population, and improve the fundamental living environmental agriculture areas. Currently we adopted biomass (waste material from animal) in several district (Covalima, Ainaro and Bobonaro) to contribute electric to community living in rural area, regarding wastewater management, while great efforts have been put by the government to address the needs, most of the efforts have been concentrated on water supply rather than on wastewater treatment and sanitation.

¹ Prepared by UNU-INWEH, IWMI, ICID, and FAO

Note: for further information on concepts and definitions on wastewater production, treatment and use visit: <http://www.fao.org/nr/water/aquastat/wastewater/index.stm>



Policies and institutional set-up and needs for wastewater management:

Institutions involved and their approach in wastewater collection, conveyance, treatment, and use in agriculture or for other purposes; status on the implementation of international and/or national guidelines for safe use of wastewater; handling, marketing, and mechanism for quality control of wastewater-irrigated produce/products; Policies and institutional needs (Maximum 200 words) .

The Policy framework is based on the ideals of the people as stipulated in the legislation and passed through a vision that became targets and development targets which are implemented through development strategies. Legal framework for water and sanitation sector is still in process (the Government in 2005 with the assistance of the Asian Development Bank(ADB) began to implement an Integrated Water Resource Management Technical Assistance Project . Through this project, the National Water demand and availability can be calculated. Preparation of a water resource policy and legal framework draft and policy implementation strategies can be formulated.

Research/practice on different aspects of wastewater:

List of major recent past (less than 5 years) and ongoing research projects related to safe wastewater irrigation with web links to results, if available (Maximum 200 words).

In the previous five years no such as research/practice related to safe wastewater irrigation with web links to results.

Status and need for the knowledge and skills on the safe use of wastewater:

Specific capacity gaps on the safe use of wastewater in irrigation by individuals or institutions dealing with wastewater management; individual level knowledge and skills urgently needed (prioritize the needs)(Maximum 150 words).

Notes: (1) Please add up to 2 tables/figures (if needed) related to the information provided in the country report/paper; (2) please provide pertinent reference/source where specific information/data is provided in the text or in tables/figures; and (3) please use the official SI notations throughout the paper.

Instructions for the Preparation of Country Reports/Papers

Authors of country report/paper are expected to follow the instructions given below while following the requirements/specific information given above.

Type Area

Select A4 size paper and leave 3 cm margins on all sides.

Type font, type size and spacing

Use Times New Roman 12 point size and single line spacing for the text; Latin names of species and genera in botany and zoology should all be in italics. Never underline any text. Use the small font (10 points or 11 points) for tables, figure captions and the references.

Organization of the paper

Title

Type the title of the paper in lower case (no caps except for proper names); Bold Times New Roman 14 point size

Author's name and affiliation

Provide each author's affiliation, city, and country. Provide the first author's e-mail address.

A.B. Author¹, C.B. Author² and D.E. Author³

¹Affiliation, city, country, and first author's e-mail address

²Affiliation, city, country

³Affiliation, city, country

Wastewater production and treatment: (Maximum 150 words)

Wastewater use/disposal: (Maximum 200 words)

Policies and institutional set-up and needs for wastewater management: (Maximum 200 words)

Research/practice on different aspects of wastewater: (Maximum 200 words)

Status and need for the knowledge and skills on the safe use of wastewater:
(Maximum 150 words)

Tables

Locate tables close to the first reference to them in the text and number them consecutively. Indicate units in the line immediately below the heading. Explanations, if any, should be given at the foot of the table, not within the table. Align all headings to the left of their column and start these headings with an initial capital. Type the caption above the table to the same width as the table. Leave two lines of space between the tables caption and the text of the paper.

Figures

Locate figures close to the first reference to them in the text and number them consecutively. Place the caption underneath the figure. Type as follows: 'Figure 1' followed by the figure caption. Leave two lines of space between the figure caption and the text of the paper.

References

In the text, place the authors' last names (without initials) and the date of publication in parentheses. If reference is made in the text to a publication written by more than two authors the name of the first author should be used followed by "et al.". This indication, however, should never be used in the list of references. In this list names of first author and co-authors should be mentioned.

At the end of the paper, list all references in alphabetical order underneath the heading References. All publications cited in the text should be presented in a list of references following the text of the paper. The paper should be carefully checked to ensure that the spelling of author's names and dates are exactly the same in the text as in the reference list. The references should be typed in small text (10 point or 11 point) and second and further lines should be indented 0.5 cm.

References cited together in the text should be arranged chronologically. The list of references should be arranged alphabetically on authors' names, and chronologically per author. If an author's name in the list is also mentioned with co-authors the following order should be used: publications of the single author, arranged according to publication dates – publications of the same author with one co-author – publications of the author with more than one co-author. Publications by the same author(s) in the same year should be listed as 1993a, 1993b, etc.

Use the following system for arranging the references:

For journal articles

Oron G, Campos C, Gillerman L, Salgot M. 1999. Wastewater treatment, renovation and reuse for agricultural irrigation in small communities. *Agricultural Water Management* 38: 223–34.

For articles in proceedings of symposia, conferences, and workshops

Abdelgawad A, Arslan A, Awad F, Kadouri F. 2004. Deep plowing management practice for increasing yield and water use efficiency of vetch, cotton, wheat and intensified corn using saline and non-saline irrigation water. p. 67-78. In: *Proceedings of the 55th IEC Meeting of the International Commission on Irrigation and Drainage (ICID)*, 9-10 September 2004, Moscow, Russia.

For books

Lazarova V, Bahri A (Eds). 2005. *Water Reuse for Irrigation: Agriculture, Landscapes, and Turf Grass*. Boca Raton, Florida: CRC Press.

For chapters in books

McCornick PG, Hijazi A, Sheikh B. 2004. From wastewater reuse to water reclamation: progression of water reuse standards in Jordan. p. 153-162. In: Scott C, Faruqui NI, and Raschid-Sally L (Eds). *Wastewater Use in Irrigated Agriculture: Confronting the Livelihood and Environmental Realities*. Wallingford, UK: CABI Publishing.

In the case of publications in any language other than English, the original title is to be retained. However, the titles of publications in non-Latin alphabets should be translated, and a notation such as "(in Russian)" or "(in Greek, with English abstract)" should be added. In referring to a personal communication the two words are followed by the year, e.g., "(J. McNary, personal communication, 1990)".

