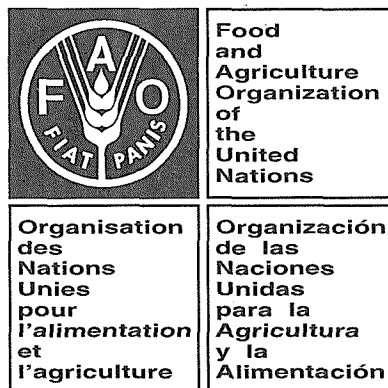


Fertilizer use by crop

Utilisation des engrais par culture

Utilización de fertilizantes por cultivo

2



IFA

IFDC

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IFA – International Fertilizer Industry Association
Association internationale de l'industrie des engrais
Asociación Internacional de la Industria de los Fertilizantes

IFDC – International Fertilizer Development Center
Centre international de développement des engrais
Centro internacional de promoción de los fertilizantes

Food and Agriculture Organization of the United Nations
Organisation des Nations Unies pour l'alimentation et l'agriculture
Organización de las Naciones Unidas para la Agricultura y la Alimentación

Rome, Roma 1994

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Inquiries about the technical content should be addressed to:

Statistical Analysis Service, Statistics Division
FAO, Viale delle Terme di Caracalla
00100 Rome, Italy

Adresser la correspondance d'ordre technique au sujet de cette publication à:

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FAO, Viale delle Terme di Caracalla
00100 Rome, Italie

La correspondencia relativa al contenido técnico de esta publicación debe dirigirse a:

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00100 Roma, Italia

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INTRODUCTION

This is the second publication produced by the Food and Agriculture Organization of the United Nations (FAO), the International Fertilizer Development Centre (IFDC) and the International Fertilizer Industry Association (IFA) on Fertilizer Use by Crop. The first issue was published in 1992. The response to it indicated the strong demand for this type of information and generated considerable interest in further study of the subject, particularly in an era of increasing environmental concern.

The information is useful to agricultural researchers, fertilizer marketing managers, international agencies, policy makers, and, above all, to countries themselves. It is also useful for environment-related issues such as input-output balances of plant nutrients in soils.

In order to broaden the scope of this study and to avoid discrepancies in the data, FAO, IFDC and IFA agreed to conduct their own surveys in 1994 and to issue a second joint publication.

The data on fertilizer use by crops in this publication were obtained from the following sources:

1. The FAO questionnaire, sent mainly to member countries either through FAO representatives or directly to government agencies.
2. The IFDC questionnaire, sent to contacts throughout the world, including participants in relevant fertilizer training courses or in professional meetings.
3. The IFA questionnaire, sent mainly to its industry members.

The three Organizations held a joint meeting in June 1994 to review the data received and to select a unique set of country data for publication. The readily available FAO statistics on country-wise total fertilizer consumption and crop acreage, were used as a guide to help determine which response to adopt. The data shown in this publication were the best received and are believed to be reliable and to better represent the countries' fertilizer use by individual crops. On the whole, they indicate the general magnitude rather than the exact measurement.

The main problems and difficulties concerning the data are:

1. So far only a limited number of government agencies collect such data (although fertilizer consumption data by nutrient are readily available);
2. Some countries report data on fertilizer use for a small number of major crops only;
3. In some cases, the estimates of fertilizer use by crops are based on information provided by dealers on the presumed use of the products;
4. A few countries report data on fertilizer recommendations as actual fertilizer use by crops;
5. Many data are estimates of fertilizer marketing managers, agronomists, extension officers and personnel employed in the fertilizer sector.

This publication presents data for 81 countries on fertilizer use by crops expressed in plant nutrients for nitrogen (N), phosphate (P_2O_5) and potash (K_2O). Data on the application rates, total cultivated area, percentage of area fertilized and total consumption by individual crops are also shown.

FAO, IFDC and IFA gratefully acknowledge the assistance of all those who contributed to this publication and welcome suggestions from readers for further development and improvement of this publication.

DEFINITIONS AND SYMBOLS USED IN THE TABLES

DEFINITIONS

TOTAL AREA refers to land cultivated with the crop listed only.

PERCENT AREA FERTILIZED refers to the proportion of total area under a certain crop receiving fertilizers.

RATE (kg/ha) refers to the amount of fertilizers applied to one hectare of a crop during a season (application rate).

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