

# **Introducing AMA**

**-Agricultural mechanization  
development in the region-**

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**10-minute PPT presentation**

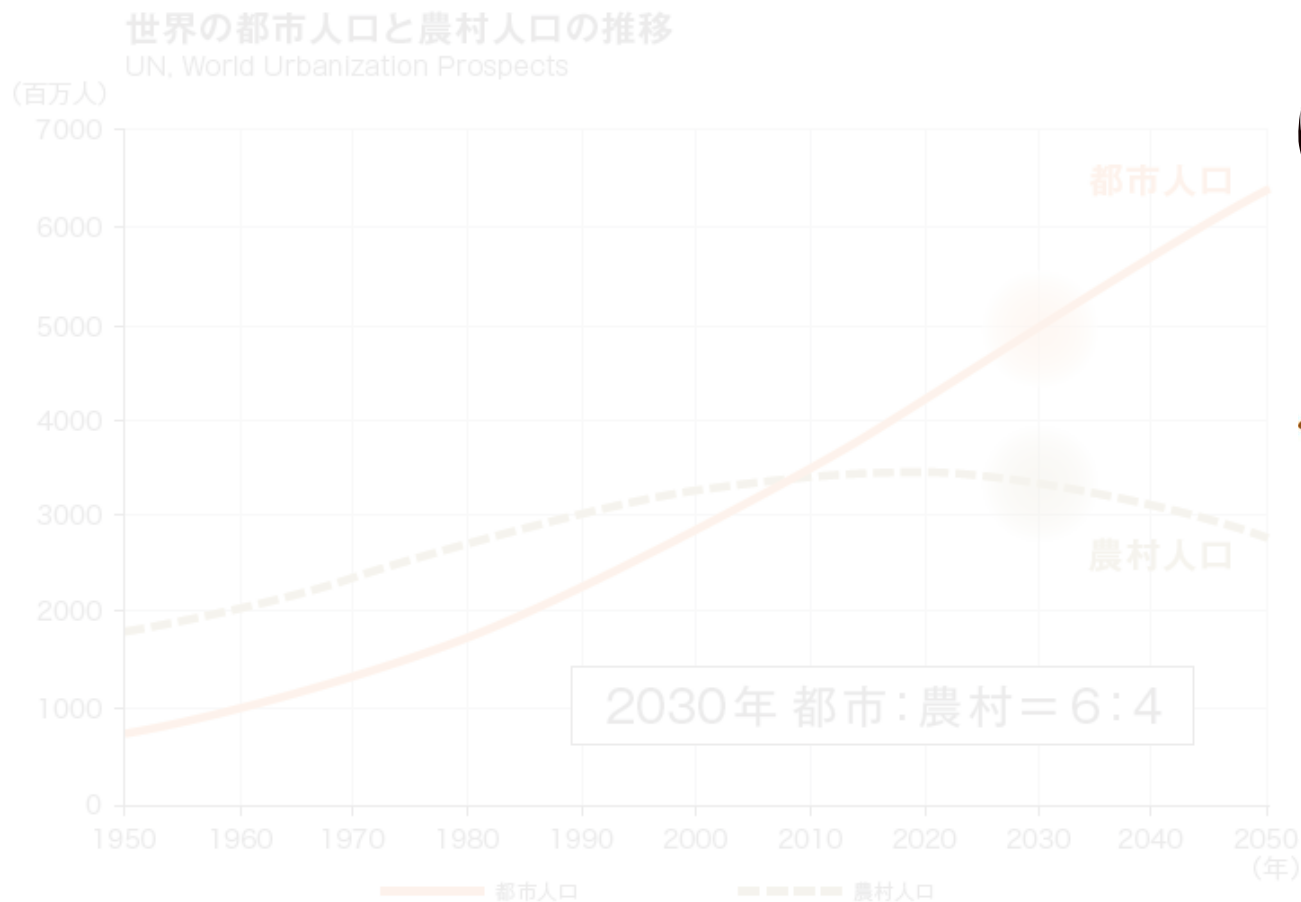
# Contents

1. World population growth
  - City, developing countries, agriculture
2. Food production of the world
  - Per capita of food, Per capita of farmland
3. Finite resources
  - Farmland, water, energy
4. Expansion of economic disparities
  - Developing countries farmers
  - Percentage of small farmers
  - Wealthy cities
5. AMA first No. photos and photos of the current AMA
  - April 1971, March 1972, April 1981
6. Co editors
  - Photo List
7. Purpose



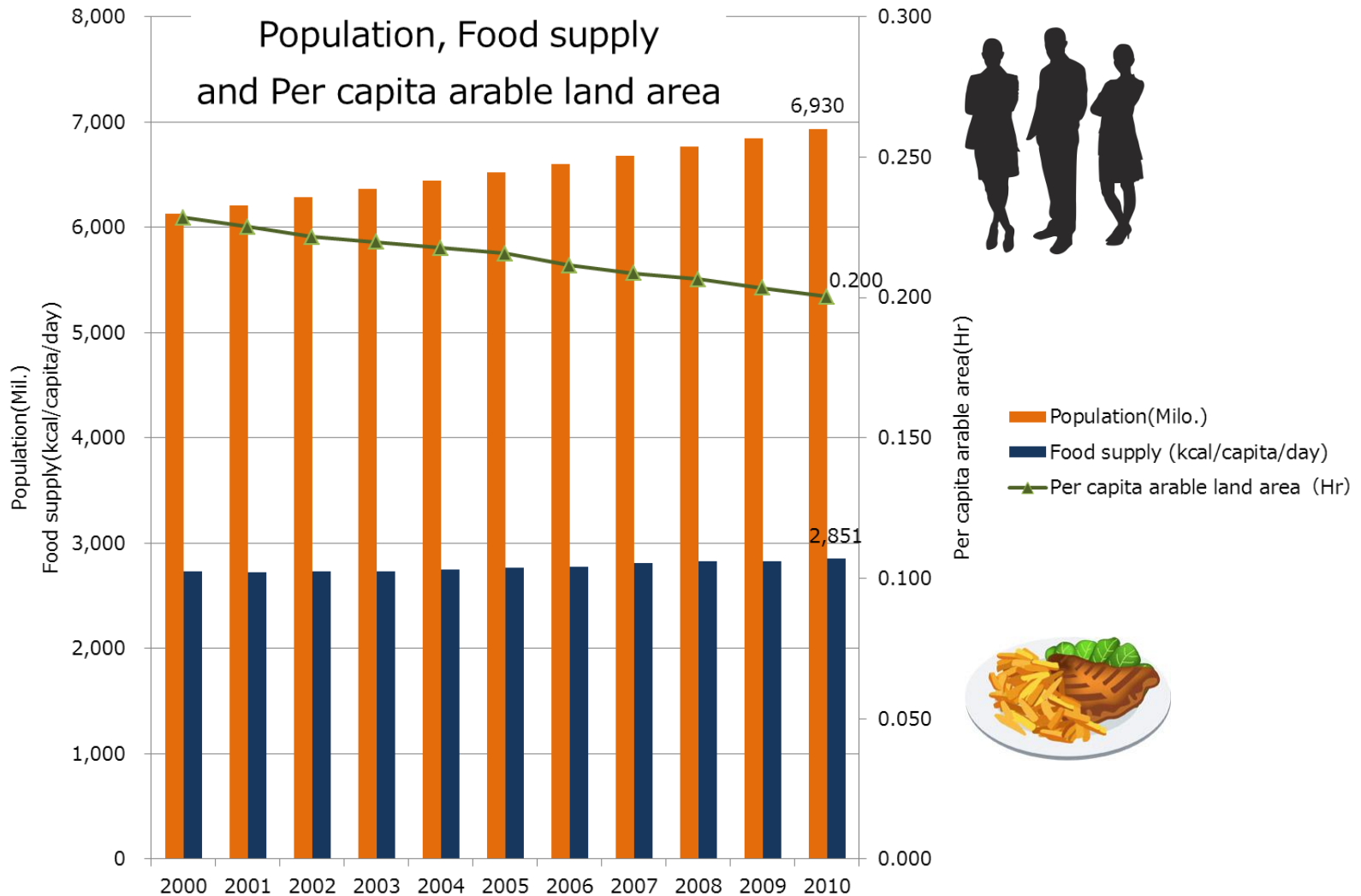
# World population growth

The population explosion of the world, toward to the urban concentration.



# Food production of the world

Population increases, arable area per capita has decreased.

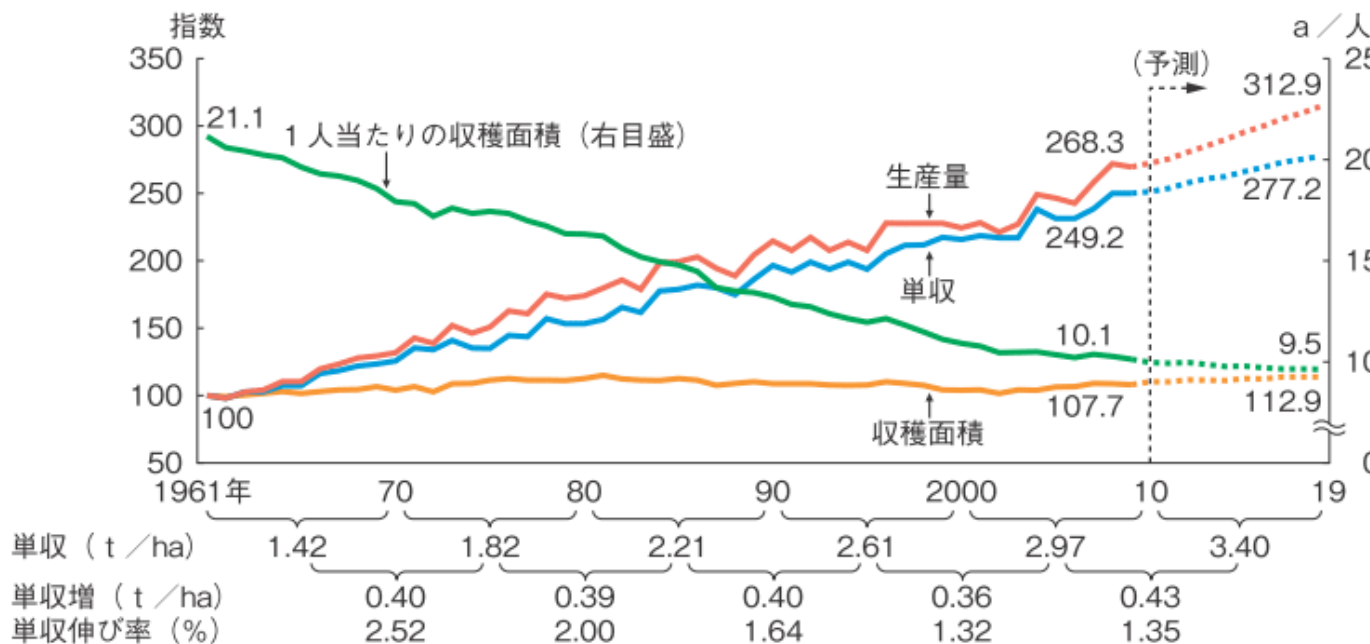


# Food production of the world Population growth and food production

The past few years, there are many countries where people of population growth is progressing faster than food production.

Country where food production can not keep up with the population growth, the 105 countries in the 64 countries of the developing countries. (1985-1995)  
39 countries are facing a serious food shortage.

図 1-10 世界の穀物の生産量、収穫面積、単収等の推移と見通し (1961年=100)



資料：米国農務省「PS&D」、農林水産政策研究所「2019年における世界の食料需給見通し」(2010年2月公表)、国連「World Population Prospects: The 2008 Revision」を基に農林水産省で作成



# Limited resources

## ■ Farm land

- World arable land 1,400 Mil. Hr
- Per capita arable land 2 Hr

## ■ Water

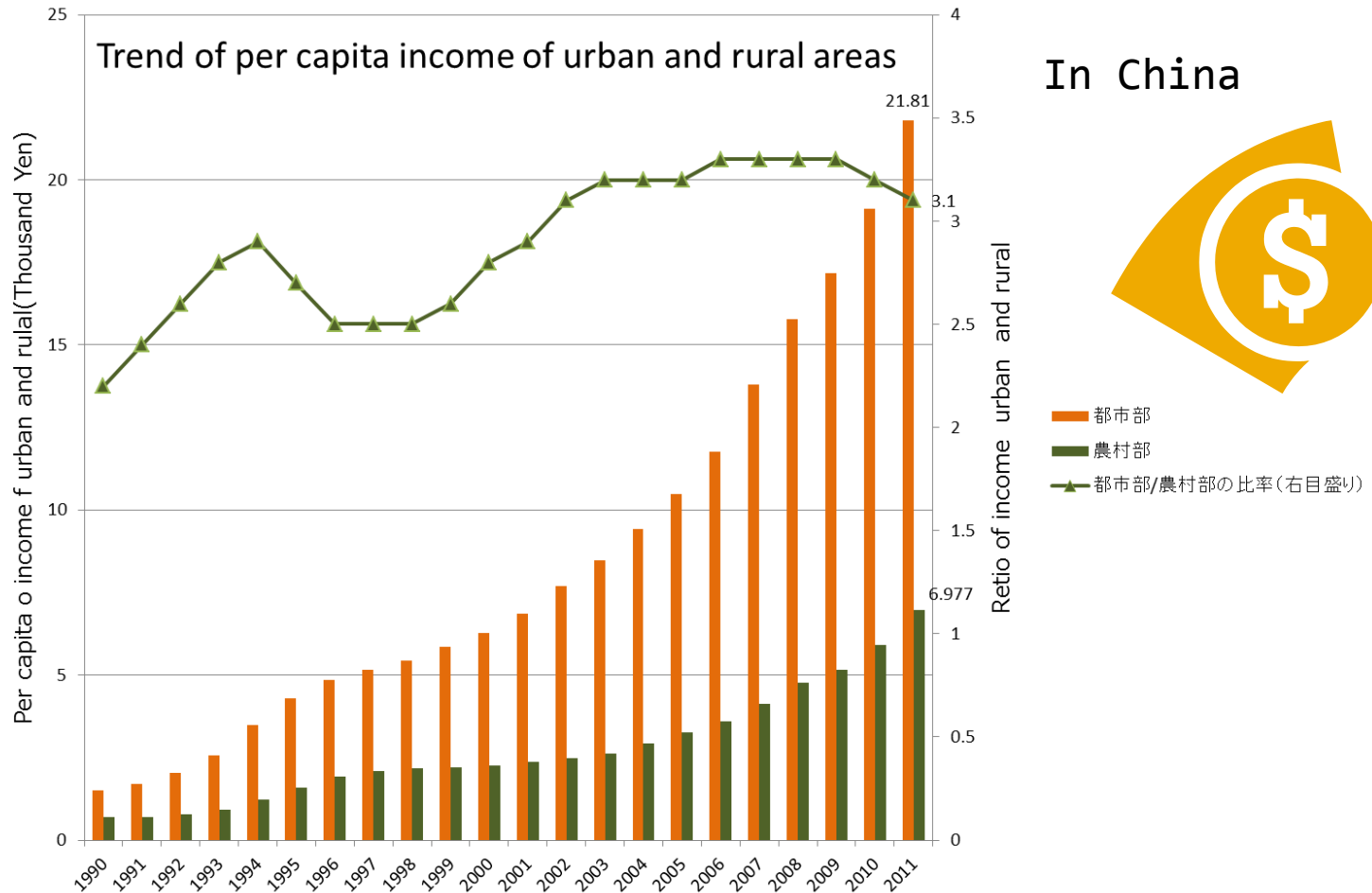
- Fresh water 4,000 thousand km<sup>3</sup>
- River, lake and pond 130 thousand km<sup>3</sup>
- Sustainable fresh water 4,000 km<sup>3</sup>
- Per capita water 600 m<sup>3</sup>/year

## ■ Energy

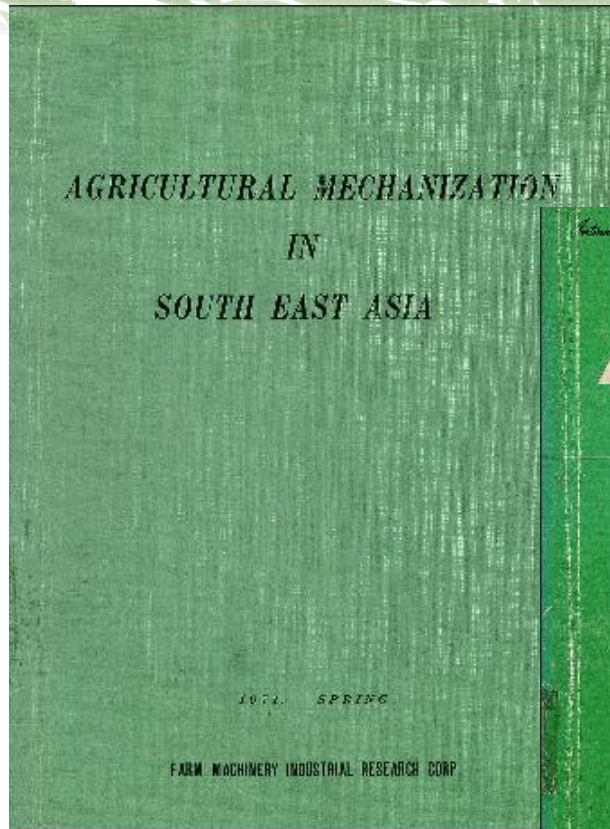
- Petroleum : For 53 years (16,690 Billion barrel)
- Coal: For 109 years (861 Billion ton)
- Natural gas: For 56 years (18700 Billion m<sup>3</sup>)
- Uranium: For 93 years (5,330 thousand ton)

# Expansion of economic disparities

Expansion of income gap between urban and rural areas.  
Urban areas about three times the income for rural areas

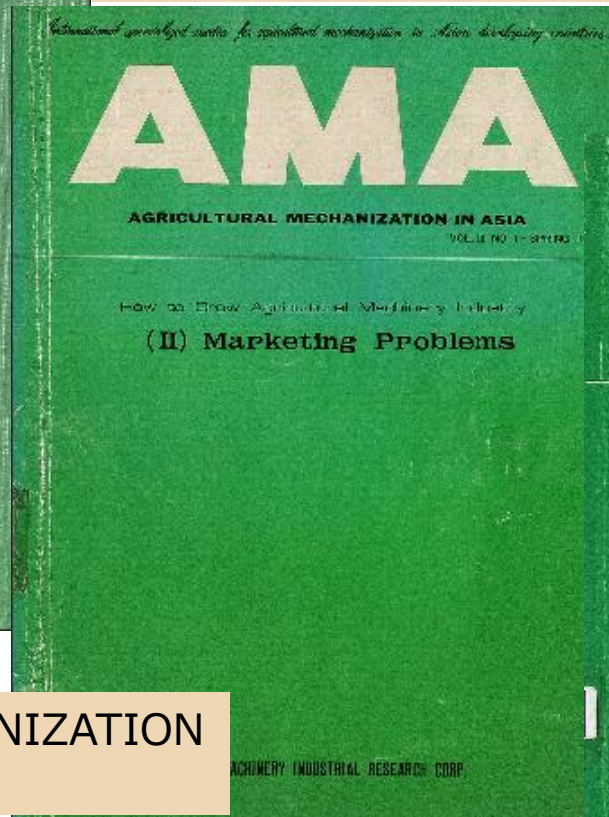


# AMA; AGRICULTURAL MECHANIZATION in



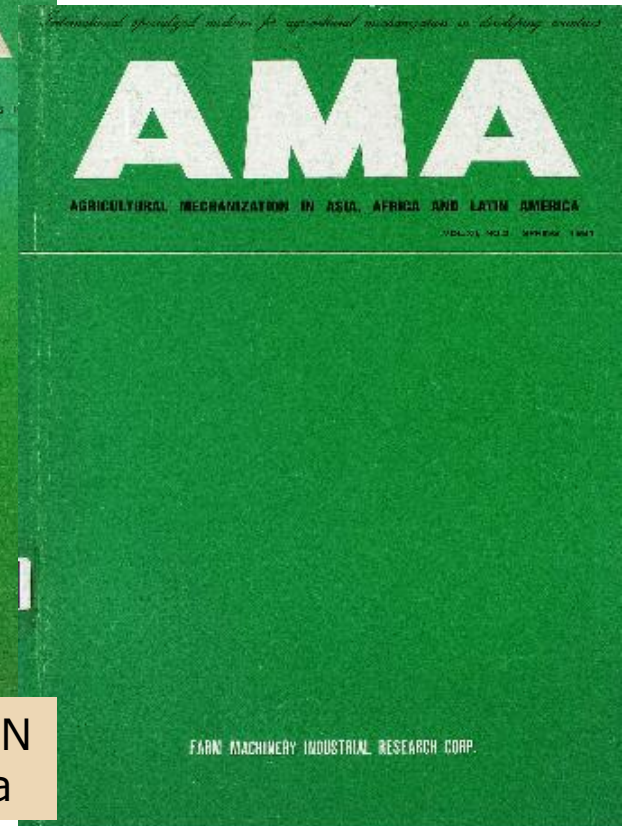
Apr. 1971

AGRICULTURAL MECHANIZATION  
in South East Asia



Mar. 1971

AGRICULTURAL MECHANIZATION  
in Asia



Apr. 1981

AGRICULTURAL MECHANIZATION  
In Asia, Africa and Latin America



# AMA co-operating editors-1

Africa: 19 editors

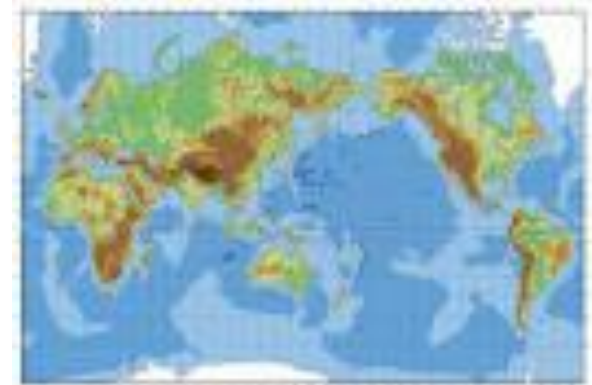
America: 14 editors

ASIA and OCEANIA: 45 editors

EUROPE: 10 editors

Total: 88 editors

\*Retirement: 48 editors



B Kayombo



M F Fonteh



S E  
Abdallah



A A K  
El Behery



R J Bani



I K Djokoto



D K Some



K Houmy



O A  
Oyelade



Umar B  
Bindir



J C Igbeka



E U-  
Odigboh



K C Oni



U L Opara



N G  
Kuyembeh



A H  
Abdoun



A B Saeed



A I Khatibu



S Tembo



H A  
Cetrangolo

# AMA co-operating editors-2



I de A Nääs



A E Ghaly



E J Hetz



M A L  
Roudergue



R Aguirre



O Ulloa-  
Torres



S G C  
Magana



H Ortiz-  
Laurel



G C Bora



W J  
Chancellor



M R Goyal



A K  
Mahapatra



Surya Nath



G R Quick



S M Farouk



Daulat  
Hussain



M A Mazed



Chetem  
Wangchen



Li Shujun



S  
Illangantileke



S M Ilyas



Indra Mani



C R Mehta



A M  
Michael



T P Ojha



B S Pathak



V M  
Salokhe



G Singh



S R Verma



Kamaruddin  
Abdullah



M Behroozi-  
Lar



Saied  
Minaei



A M Abdul-  
Munaim



J Sakai



B A Snobar



J H Chung



In-Bok Lee



M Z  
Bardaie



M P Pariyar



M A  
Basunia

# AMA co-operating editors-3



Alamgir  
Khan



A D  
Chaudhry



A Q Mughal



Rur Rehmen



N A  
Abu-Khalaf



R M Lantin



R P  
Venturina



S A  
Al-Suhaibani



A M S  
Al-Amri



S F Chang



T S Peng



S  
Krishnasreni



S Phongsupasamit



A  
Senanarong



Y Pinar



I Haffar



N Hay



P V Lang



T H  
Katardjiev



P Kic



J Müller



E  
Gasparetto



W B  
Hoogmoed



Jan Pawlak



O S  
Marchenko



M Martinov



J Ortiz-  
Cañavate



Brian G  
Sims

# AMA co-operating editors retired

Retirement: 48 editors

## Retirement Co-editors' Name List

Co-editor's name	Nationality	Inaugural year	Retired year	Co-editor's name	Nationality	Inaugural year	Retired year
Adrian Moens	Netherlands	1972	1989	Wang Wanjun	China	1980	2012
Bala Krishna Shrestha	Nepal	1972	1991	Allan L. Phillips	U. S. A.	1981	2004
Chul Choo Lee	Korea	1972	2014	Julien G. Van Lancker	Brundi	1981	1989
Chau Van Khe	Vietnam	1972	1980	Suppiah Kathirkamathamby	Sri Lanka	1981	1991
Manbahadur Gurung	Bhutan	1972	2006	Armed Hossain Mirdha	Mexico	1982	1991
Merle L. Esmay	U. S. A.	1972	1990	A. A. Valenzuela	Chile	1982	2013
Giuseppe Pellizzi	Italy	1973	2012	David Boakye Ampratwum	Ghana	1982	2011
Mohamed A. Bedri	Sudan	1973	1987	Kshirode Chandra Roy	Bangladesh	1982	1985
Shahansha-Uddin Choudhury	Bangladesh	1973	1991	M. H. Abdel Aziz	Saudi Arabia	1982	1991
T. B. Muckle	U. K.	1973	1978	Krishna Prakash Srivastava	Ethiopia	1983	1989
Chang Joo Chung	Korea	1975	2014	Muhammad Siddique Chaudhry	U. S. A.	1983	1991
T. Tougaard Pedersen	Denmark	1975	1990	Wimala Tissa Weerakoon	Zambia	1983	1985
Bilash Kanti Bala	Bangladesh	1976	1982	Harry D. Henderson	Lebanon	1984	1985
George B. Hanna	Egypt	1976	1988	Mohammad Afzal	Pakistan	1984	1994
Jun Sakai	Japan	1976	2015	A. P. Kaloyanov	Bulgaria	1985	2013
Siswadhi Soepardjo	Indonesia	1976	1985	Soedjatmiko	Indonesia	1986	2014
Mohammad Ilyas	Pakistan	1977	1981	Aalbert Anne Wanders	Netherlands	1988	2007
Amala Prasad Sharma	Fiji	1978	1981	Ali Mahmoud El Hossary	Egypt	1988	2010
Arumugam Kandiah	Ethiopia	1978	1989	Chanchai Rojanasaroj	Thailand	1988	2011
Bherulal T. Devrajani	Pakistan	1978	2004	Edward A. Baryeh	Zimbabwe	1988	2014
Satish Chandra	Fiji	1979	1990	Eltag S. Eldin Mahmoud	Sudan	1990	2011
Jitendra P. Mittal	Nigeria	1980	1993	Henrik Have	Denmark	1990	2009
Naresh Chandra Saxena	India	1980	1988	Graeme Ross Quick	Australia	1995	2015
Paris Andereou	Lebanon	1980	1984	Abdulsamad Abdulmalik Hazza'a	YEMEN	1999	2014

# Purpose of AMA

- Performs compatible technology development in the region and farmers, to promote the appropriate mechanization of developing countries in the step by step.
- Aims to improve income in developing countries, to reduce the economic disparities of the world, to achieve a peaceful planet.
- In addition, continue to achieve better harmony of human and biological systems.
- Definition of broad agriculture is lobbying to biological systems for a better harmony of human and biological systems.
- Aims to mass production of life-based total system from each of the mass production of forest, agriculture and fisheries.

# Purpose of AMA

- To achieve improve the land productivity
  - Need timely operation
  - Need exact operation
- Need to promote agricultural Mechanization for timely operation and exact operation.
- AMA, the expert of agricultural machinery in the world for the promotion of agricultural mechanization of the world in order to promote better cooperation and networking and we want to also encourage future.



**Thanks For  
Listening**