

Agricultural Development and the Opportunities for Aquatic Resources Research in China

L.X. Zhang • J. Liu • S.F. Li • N.S. Yang • P.R. Gardiner



**Agricultural Development and the Opportunities
for Aquatic Resources Research in China**

L.X. Zhang
J. Liu
S.F. Li
N.S. Yang
P.R. Gardiner

2003

Published by WorldFish Center
PO Box 500 GPO
10670 Penang, Malaysia

Zhang, L.X., J. Liu, S.F. Li, N.S. Yang and P.R. Gardiner. 2003. Agricultural Development and the Opportunities for Aquatic Resources Research in China. WorldFish Center Conf. Proc. 65, 58 p.

Perpustakaan Negara Malaysia. Cataloguing-in-Publication Data

Agricultural development and the opportunities for aquatic resources
research in China.
Zhang, L.X....[et al].
ISBN 983-2346-11-8
1. Aquatic resources —Research—China. 2. Agricultural ecology—
Research—China.
333.9100951

Editor: Peter Gardiner
Managing editor: Janet-Maychin
Cover design: Catherine Tan Lee Mei
Cover photos: S.F. Li, J. Liu and N.S. Yang
Layout and design: C-Square Sdn. Bhd., Penang

ISBN 983-2346-11-8

WorldFish Center Contribution No. 1668

Printed by Jutaprint, Penang, Malaysia

CONTENTS

FOREWORD <i>M.J. Williams</i>	v
INTRODUCTION <i>P.R. Gardiner</i>	vii
Agricultural and Rural Development in China <i>L.X. Zhang</i>	1
Enhancing linkages between China and The WorldFish Center: Science, Environment and Agriculture <i>J. Liu</i>	9
Aquaculture Research and its Relation to Development in China <i>S.F. Li</i>	17
Research Priorities of the Chinese Academy of Fishery Sciences (CAFS) <i>N.S. Yang</i>	29
APPENDICES Appendix 1: Program Appendix 2: Proposed areas for collaboration with Chinese institutions	37

FOREWORD

This brief volume documents an important early step in the collaboration between The WorldFish Center and the People's Republic of China.

This volume is a collection of papers that four Chinese scientists presented to the WorldFish Center in March 2002. The four scientists, Dr Zhang Linxiu, Professor Liu Jian, Professor Li Sifa, and Professor Yang Ningsheng, designed their papers so as to introduce and explain the background to the rapid changes that China is undergoing, the aquatic resource issues and development challenges that are confronting China and major Chinese institutions dealing with those issues and challenges.

We at the WorldFish Center are confident that this step will be a part of a continuing process that will enable the Center to direct its strategic research efforts to assist China and to provide benefits from the joint research to other regional partners in the future. WorldFish hopes that publication of these papers will also serve as a useful starting point for others interested in aquatic resources and development challenges in China as much of the information has not been assembled in English before.

WorldFish has a major focus on Asia because people in Asia are major producers and consumers of aquatic produce. The population in Asia also stands to suffer the greatest risk from damage to the environmental base that supports sustained productivity. The Center has a portfolio of research, partnership, capacity building and policy support to promote sustainable development and use of living aquatic resources based on environmentally sound management.

WorldFish has conducted productive collaborative research with institutes in China for many years. In the genetic improvement of tilapia and carp species, the Center has collaborated with the Shanghai Fisheries University and the Wuxi-based Freshwater Fisheries Research Centre (FFRC) of the Chinese Academy of Fishery Sciences (CAFS). WorldFish has also worked with the Information Center of CAFS and, more recently, has begun to collaborate with the Center for Chinese Agricultural Policy (CCAP) of the Chinese Academy of Sciences..

During the Third World Fisheries Congress in November 2000, WorldFish met representatives of Chinese universities and other national agencies concerned with the aquatic sector in China in order to broaden future collaboration. Professor Chen of FFRC, Dr. Zhang Linxiu of CCAP and a member of the Board of Trustees of the WorldFish Center, and Dr. M.V. Gupta, the Director of International Relations of the Center, convened and organized the meeting. The meeting raised two questions, namely identifying China's priority efforts which could best be augmented by international collaboration and determining ought the national and institutional context for collaborative research projects.

In March 2002, the Board of Trustees and senior staff of WorldFish invited Dr Zhang and Professors Li, Liu and Yang to a discussion focused on seeking answers to the two questions. The papers presented at that discussion are the basis for this volume.

We are very grateful to Dr. Zhang Linxiu and our other Chinese partners and speakers for helping us take this important step. We hope that their papers lead to ideas and the institutional knowledge necessary for further constructive collaboration.

Meryl Williams
Director General
WorldFish Center