Contents

USAID/PHILIPPINES
DEVELOPMENT
INFORMATION CENTER

FOREWORD v

CHAPTER 1 Population diversity and rice in Laos 1
Martin Stuart-Fox

CHAPTER 2 A history of rice in Laos 9
J.M. Schiller, Hatsadong, and K. Doungsila

CHAPTER 3 Rice production systems of Laos 29
B.A. Linquist, B. Keobouaiapha, Sipaseuth, and P. Inthapanya

CHAPTER 4 Climatic diversity within the rice environments in Laos 47
J. Basnayake, T. Inthavong, S.P. Kam, S. Fukai, J.M. Schiller, and M. Chanphengxay

CHAPTER 5 Rice-based traditions and rituals in the Mekong River valley 65
Hatsadong, K. Douangsila, and P. Gibson

CHAPTER 6 Rice-based traditions and rituals of the Kmhmu' 79
Suksavang Simana and Elisabeth Preisig

CHAPTER 7 Rice-based traditions and beliefs of the Hmong 107
Pheng Sengxua

CHAPTER 8 Katu traditions and rituals associated with rice 113
N.A. Costello

CHAPTER 9 Diversity within the traditional rice varieties of Laos 123
S. Appa Rao, J.M. Schiller, C. Bounphanousay, and M.T. Jackson

CHAPTER 10 Naming of traditional rice varieties by the farmers of Laos 141
S. Appa Rao, J.M. Schiller, C. Bounphanousay, A.P. Alcantara, and M.T. Jackson

CHAPTER 11 The aromatic rice of Laos 159
S. Appa Rao, C. Bounphanousay, J. M. Schiller, M.T. Jackson, P. Inthapanya, and K. Douangsila

CHAPTER 12 The colored pericarp (black) rice of Laos 175
S. Appa Rao, J.M. Schiller, C. Bounphanousay, P. Inthapanya, and M.T. Jackson

CHAPTER 13 Development of traditional rice varieties and on-farm management of varietal diversity in Laos 187
S. Appa Rao, J.M. Schiller, C. Bounphanousay, and M.T. Jackson

CHAPTER 14 Glutinous rice in Laos 197
J.M. Schiller, S. Appa Rao, P. Inthapanya, and Hatsadong

CHAPTER 15 Diversity of wild and weedy rice in Laos 215
Y. Kuroda, S. Appa Rao, C. Bounphanousay, K. Kongphanh, A. Iwata, K. Tanaka, and Y. I. Sato

CHAPTER 16 Arthropod communities of the lowland rice ecosystems in the Lao PDR 235
H.R. Rapusas, J.M. Schiller, K.L. Heong, A.T. Barrion, V. Sengsoulivong, S. Inthavong, and K. Inthavong

CHAPTER 17 Pests and diseases of the rice production systems of Laos 265
B. Douangboupha, K. Khamphoukeo, S. Inthavong, J. Schiller, and G. Jahn

CHAPTER 18 Determinants of insecticide-use decisions of lowland rice farmers in Laos 283
M.M. Escalada, K.L. Heong, V. Sengsoulivong, and J.M. Schiller

CHAPTER 19 Rodents in the rice environments of Laos 291
K.P. Aplin, P.R. Brown, G.R. Singleton, B. Douang Boupha, and K. Khamphoukeo

CHAPTER 20 Weed ecology in the rice environments of Laos 309
W. Roder

CHAPTER 21 The history of lowland rice variety improvement in Laos 325
P. Inthapanya, C. Boualaphanh, Hatsadong, and J.M. Schiller

CHAPTER 22 Advances in agronomic research in the lowland rice environments of Laos 349
J. Basnayake, S. Fukai, Sipaseuth, J.M. Schiller, and C. Monthathip

CHAPTER 23 Soil fertility management in the lowland rice environments of Laos 369
S.M. Haefele, S. Nivong, P. Sengxua, V. Phengsouvanna, S. Vongsouthi, and B. Linquist

CHAPTER 24 Improving upland rice-based cropping systems in Laos 391
B. Linquist, S. Kazuki, B. Keoboualapha, S. Phengchan, and K. Phanthaboon

CHAPTER 25 Montane paddy rice: opportunities for increasing food security in the highlands of Laos 409
B. Linquist, K. Trösch, K. Phouynyavong, S. Pandey, S. Fukai, J. Basnayake, D. Guenat, and L. Douangsavang

PHOTOS 431