























DFID Department for International Development

IRRI International Rice Resear

Scuba Rice

- Paddy loss due to flooding in Bangladesh and India amounts to an estimated 4m tons of rice p/year enough to feed 30m people
- In the Philippines, 2006, 50 provinces were affected by devastating typhoons and floods which cost the rice industry US\$65m.
- Research led by IRRI has developed a flood-tolerant local rice variety to isolate the gene responsible for flood resistance.
- The flood tolerant "scuba" versions of rice varieties can withstand 17 days of complete water submergence
- Six Sub1 "mega varieties" of rice have been produced



UKaid

Submergence rice varieties at a test site in Bangladesh

"I gave up hope of getting any yield from my land as paddy seedlings remained submerged for 17 days. But to my surprise the seedlings grew green again after the flood. Still I can't believe I have got 18 maunds (672 kg) of paddy from there."**Biplob** Sarker, farmer, Bangladesh





Micronutrient-Rich Crops for Africa



Cassava Provitamin A DR Congo, Nigeria



Beans Iron (Zinc) DR Congo, Rwanda



Maize Provitamin A Zambia



Sweet Potato Provitamin A Mozambique, Uganda













Main rains now start earlier by one month on average
Main rains now start earlier by one month on average
and end earlier by one month on average
Rainfall within the season is now more variableMore dry daysX
Total rainfall is has declined All farmers agreed
It is now warmer 80% perceived this
Sarah Cooper, University of Reading Survey of 141 famers in Nyanja and Rukindo parishes in 2009 Met data from Mbarara 1960-2009



