

## Water Utilisation in Agriculture: Research project portfolio for 2007/08

THRUST 1: WATER UTILISATION FOR FOOD AND FIBRE PRODUCTION		
Title (New projects indicated by *)	Contractor	Term
<b>Programme 1: Water-efficient production methods in relation to soils, crops and technology in rain-fed and irrigated agriculture</b>		
Standards and guidelines for improved efficiency of irrigation water use from dam wall release to root zone application	ARC/Institute of Agricultural Engineering	01/04/04-31/03/09
Adapting the wetting front detector to the needs of small-scale furrow irrigation and providing a basis for the interpretation of salt and nutrient measurements in the water sample	University of Pretoria, Plant Production & Soil Science	01/04/05-31/03/08
Real-time irrigation advice for small scale sugarcane production using a crop model, weather data and cellular communication	SASRI	01/04/05-31/03/08
Increasing water use efficiency of irrigated sugarcane production by means of good agronomic practices	SASRI	01/04/05-31/03/08
Integrating and upgrading of SAPWAT and PLANWAT to create a powerful and user-friendly irrigation planning tool	PICWAT cc	01/04/05-31/09/07
Guidelines for irrigation management in pasture production	CSIR, Natural Resources and the Environment	01/04/06-31/03/11
*Scoping study on water use of crops/trees for biofuels	University of KwaZulu-Natal, School of Bioresources Engineering and Environmental Hydrology	01/04/07-31/03/08
*Water use of fruit tree/orchard crops	CSIR, Natural Resources and the Environment	01/04/07-31/03/13
*Water use of drought tolerant food crops	University of KwaZulu-Natal, Crop Science	01/04/07-31/03/13
<b>Programme 2: Fitness-for-use of water for crop production, livestock watering and aquaculture</b>		
Assessment of the interaction between aquaculture and water quality in on-farm irrigation dams	University of Stellenbosch, Aquaculture	01/04/03-31/03/07
Guidelines for sustainable use of grey-water in small-scale agriculture and gardens in South Africa	University of KwaZulu-Natal, School of Biological and Conservation Sciences	01/04/05-31/03/09
*Scoping study to investigate the possible pollution of endocrine disrupting compounds (EDCs) from agricultural activities in South African water systems	Private Consultant: Mrs AEC Burger	01/04/07-31/03/08
*A quantitative investigation into the link between irrigation water quality and food safety	University of Stellenbosch, Food Science	01/04/08-31/03/12