

Annex Table 8.2. Profile of selected irrigation and water management projects in Kenya

Project	Year of Implementation	Cost/hectare (US\$) 1990 prices	Area irrigated (ha)	Type of Project	Crops	Feasibility studies/Design	Funding Source	Remarks
Mitunguu	1983	16,649	400	permanent weir; gravity piped system w/ uPVC pipes; sprinklers	horticulture vegetables	international consultants	German government	with an elaborate overhead field application system which was imported; project completed on time without any escalation of prices
Mathina Ngogithi	1985	1,543	40	permanent weir for gravity supply; gravity open canal system lined w/ concrete; small basins & furrow	mixed horticulture vegetables & food crops	in-house-Provincial Irrigation Unit	Ministry of Agriculture (MoA)	utilised government engineers; project was completed on time & without any variation in prices
Bura ¹	1987	15,957	0	permanent weir, pumped-fed irrigation system; mixed gravity open canal system; open surface application	cotton	international consultants	World Bank	utilised many international consultants;
Kibirigwi	1989	15,644	120	permanent weir for gravity supply; gravity (GI) piped system	horticulture vegetables	international consultants	Dutch government	essentially a settlement scheme with an elaborate overhead field application system (imported)
Lamuria	1995	3,275	36	permanent weir for gravity supply; mixed gravity (uPVC) piped and open canal system; low pressure	horticulture vegetables	in-house staff (GoK)	MoA & International Fund for Agricultural Development	utilised government engineers and local contractors; project was completed on time; there was an increase in price by Kshs534000 due to cost variation brought about by unforeseen pipe & pipe fitting materials required for the main canal; the 5% final retention money has not been yet been paid
Kiambere	1996	10,545	170	sprinklers, open surface intake works & pump station; pump-fed system;	horticulture vegetables	international consultants	parastatal agency	implemented by international contractors; elaborate drip & overhead field system; project completed without any significant escalation of prices
Ciambaraga	1996	2,859	56	sprinklers & drip units permanent weir for gravity supply; gravity (uPVC) piped system; sprinklers	horticulture vegetables	in-house, NGO staff & checked by local consultants	loan by the Small Irrigation Development Organization (SISDO)	with an elaborate overhead field application system (locally fabricated) & used local consultant; project was completed on time & without any costs variations
Kianduro irrigation Scheme ²	-	8,429	100	weir for gravity supply; gravity-fed (uPVC) piped system; sprinklers	horticulture vegetables	local consultants	-	to be implemented
Mutunyi irrigation scheme ²	-	874	100	weir and gravity; gravity fed (uPVC) piped system; sprinklers	& some food crops horticulture & food crops	in-house staff (GoK)	-	to be implemented
Kayatta A irrigation Scheme ³	-	3,502	128	weir & gravity supply; gravity fed canal system w/ some lined sections & gully crossings; surface application -- basins, furrows	horticulture & some food crops	in-house staff (GoK)	-	to be implemented
Kayatta B irrigation Scheme ³	-	666	142	weir & gravity supply; gravity fed canal system; surface application --basins, furrows	horticulture & some food crops	in-house staff (GoK)	-	to be implemented
Nthambo Irrigation Scheme ³	-	3,114	64	weir & gravity supply; gravity fed (uPVC) piped system; sprinklers	horticulture & some food crops	in-house staff (GoK)	-	to be implemented
Mwiria irrigation scheme ³	-	2,491	72	weir & gravity supply; gravity fed (uPVC) piped system; sprinklers	horticulture & some food crops	in-house staff (GoK)	-	to be implemented

Source: Muthee and Ndiritu 2003.

Notes : (1) If total costs are considered including none core irrigation components. 2,900 ha. fully developed and initially irrigated. Planned irrigated area was 12,000 ha. but only 4000 was developed; currently not functional.

(2) Awaiting funding, design and costing done in 2000.

(3) Awaiting funding, design and costing done in 2002.