



## Kenya Water Security and Climate Resilience Project (P117635)

EASTERN AND SOUTHERN AFRICA | Kenya | Water Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2013 | Seq No: 18 | ARCHIVED on 24-Aug-2022 | ISR52447 |

Implementing Agencies: Ministry of Water & Sanitation, Republic of Kenya

**Key Dates****Key Project Dates**

Bank Approval Date: 18-Jun-2013

Effectiveness Date: 24-Oct-2013

Planned Mid Term Review Date: 20-Apr-2017

Actual Mid-Term Review Date: 04-May-2017

Original Closing Date: 01-Oct-2020

Revised Closing Date: 31-Dec-2022

**Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The project development objectives of KWSCR-1 are to: (i) increase availability and productivity of irrigation water for project beneficiaries; and (ii) enhance the institutional framework and strengthen capacity for water security and climate resilience for the country.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

(a) increase access to irrigation water for project beneficiaries and (b) enhance the institutional framework and strengthen capacity for water security and climate resilience in certain areas of the territory of the Recipient.

**Components** Table

Name

C1: Water Resources Development:(Cost \$112240.00 M)  
C2: Effective Water Sector Institutions:(Cost \$15740.00 M)  
C3: Support for Project Implementation:(Cost \$17410.00 M)  
Project Preparation Advance:(Cost \$667.00 M)  
Unallocated

**Overall Ratings**

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Unsatisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Unsatisfactory
Overall Risk Rating	<input type="checkbox"/> High	<input type="checkbox"/> High

**Implementation Status and Key Decisions**

The project is starting to deliver results for beneficiaries. Project investments directly benefit around 100,720 people, including farmers in the lower Nzoia irrigation command area receiving training and advisory services on improved agricultural practices (with 60 percent adoption), those



benefiting from watershed restoration and flood protection interventions in the river Nzoia basin, and those benefiting from water distribution improvements in Mombasa.

Also, with project support, the Ministry of Water, Sanitation, and Irrigation (MoWSI) has completed several critical reforms to enhance the legal, policy, and regulatory framework for managing Kenya's scarce water resources (including new water policy, new water law, and several regulations governing water resources management, water services, water harvesting and storage, and irrigation). Moreover, the project has contributed to strengthening the capacity of critical sector institutions, such as the Water Resources Authority (WRA), through a strengthened legal mandate, better information, analytical, and decision support tools.

Major infrastructure activities have also picked up after long delays caused by slow land acquisition processes. For example, physical progress on the lower Nzoia irrigation scheme is currently at 57 percent, while progress on flood protection infrastructure (37.4km of dykes along the northern and southern banks of the Nzoia river) is at 88 percent. The dykes are on track to be completed by the current closing date (December 31, 2022). On the other hand, the irrigation scheme is behind schedule, and the contractor cannot complete it by current project closing date.

After this mission, the project is focusing its attention in the first blocks (1 to 4) to deliver water for beneficiaries by World Bank's project financing closing date (December 31, 2022). This will allow to build momentum on the irrigation infrastructure works in the schemes and for about 20% of the beneficiary farmers to get irrigation and drainage services by December 2022. From the World Bank perspective, achieving progress against agreed milestones within the next couple months is key to continue our engagement beyond December 2022.

**Risks**

**Systematic Operations Risk-rating Tool**

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	☐ Substantial	☐ High
Macroeconomic	--	☐ Moderate	☐ Moderate
Sector Strategies and Policies	--	☐ Moderate	☐ Moderate
Technical Design of Project or Program	--	☐ Moderate	☐ Moderate
Institutional Capacity for Implementation and Sustainability	--	☐ Substantial	☐ Substantial
Fiduciary	--	☐ Substantial	☐ Substantial
Environment and Social	--	☐ High	☐ High
Stakeholders	--	☐ Substantial	☐ Substantial
Other	--	--	--
Overall	--	☐ High	☐ High

**Results**

**PDO Indicators by Objectives / Outcomes**

Increase access to irrigation water for project beneficiaries

► Area provided with irrigation and drainage services (ha) (Hectare(Ha), Corporate)



	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	0.00	0.00	2,385.00						
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022						
Comments:	Irrigation works are progressing at a slower rate than originally envisaged, due to delays in land acquisition.									
<b>► Farmers gaining access to new/improved irrigation and drainage services (Number, Custom)</b>										
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	0.00	0.00	7,600.00						
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022						
<input type="checkbox"/> Of which female (Text, Custom Breakdown)										
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0%	0.00	0.00	35%						
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022						
<b>► Direct project beneficiaries (Number, Custom)</b>										
	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	54,000.00	100,720.00	148,316.00						
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022						
Comments:	<p>Irrigation works are progressing at a slower rate than originally envisaged due to delays in land acquisition.</p> <p><u>Regarding the Agricultural activities (extension, training and inputs) child indicator</u> it is important to note that this indicator tracks extension services, trainings and inputs provided to beneficiaries. This indicator was added during the restructuring to capture all agricultural activities' related outcomes. Before the restructuring, the project was only tracking trainings and consultations with farmers. Furthermore, during 2020/2021 COVID restrictions impede progress on the agriculture activities which were designed to be face to face with Lower Nzoia Farmers. With the lifting of the COVID restrictions, agricultural activities advanced significantly, which explains the increase on beneficiaries from previous reporting. The breakdown by category is provided below.</p> <table border="1"> <tbody> <tr> <td>a) Number of farmers trained in improved agriculture practices (including irrigated agriculture)</td> <td>9,344</td> </tr> <tr> <td>b) Number of farmers receiving extension support services</td> <td>10,710</td> </tr> <tr> <td>c) Number of farmers accessing agricultural inputs</td> <td>3,335</td> </tr> </tbody> </table> <p><u>Regarding the Mombasa water distribution child indicator:</u> There was an error on the previous reporting (which as based on 3,700 household connections and 22,200 people benefiting), given the current number of connections are only 3,000, the beneficiaries are instead 18,000 (6 per HH). Related to this aspect, the PCU has reported that since procurement of the remaining connections has been completed, the set target remains achievable by closing date.</p> <p>Given these discrepancies and the upcoming ICR, the team will discuss the Results framework and reported results in detail with the PMU once again.</p>				a) Number of farmers trained in improved agriculture practices (including irrigated agriculture)	9,344	b) Number of farmers receiving extension support services	10,710	c) Number of farmers accessing agricultural inputs	3,335
a) Number of farmers trained in improved agriculture practices (including irrigated agriculture)	9,344									
b) Number of farmers receiving extension support services	10,710									
c) Number of farmers accessing agricultural inputs	3,335									



<input type="checkbox"/> Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	31.00	35.00
<input type="checkbox"/> Irrigation (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	7,600.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
<input type="checkbox"/> Flood Protection (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	58,774.00	20,658.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
<input type="checkbox"/> Agricultural activities (extension, training and inputs) (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,478.00	23,389.00	31,500.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
<input type="checkbox"/> Capacity building of WRA and other sector institutions (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	516.00	557.00	516.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
<input type="checkbox"/> Mombasa water distribution (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	22,200.00	18,000.00	42,000.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
Enhance the institutional framework and strengthen capacity for water security and c.resilience				
<input checked="" type="checkbox"/> Water Resources Authority (WRA) Established and Operational (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	WRA not established	WRA established and operational	WRA established and operational	WRA established and operational
Date	22-Mar-2019	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	Target achieved.			
► Water Act, Sector Policy and Regulations adopted (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Water Act in draft form with Ministry	The indicator has been achieved. Water Act was adopted and passed in 2016. MoWSI prepared various new regulations to implement the Water Act 2016. These include new water resources regulations to regulate the management, use, and development of water resources, water services regulations to regulate the provision of water and sanitation services, and water harvesting and storage regulations to regulate water harvesting and storage. MoWSI has also prepared a new water policy through wide-ranging consultations (including with County governments). Cabinet approved both the regulations and the policy on February 25, 2021. Both instruments are now before parliament for final endorsement before they are published/gazetted.	The indicator has been achieved. Water Act was adopted and passed in 2016. MoWSI prepared various new regulations to implement the Water Act 2016. These include new water resources regulations to regulate the management, use, and development of water resources, water services regulations to regulate the provision of water and sanitation services, and water harvesting and storage regulations to regulate water harvesting and storage. MoWSI has also prepared a new water policy through wide-ranging consultations (including with County governments). Cabinet approved both the regulations and the policy on February 25, 2021. Both instruments are now before parliament for final endorsement before they are published/gazetted.	Water Policy and Bill adopted, regulations adopted.
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	The indicator is on track to be achieved by the project closing date. The Water Act was adopted and passed in 2016. Water policy under cabinet review. A sector transition plan has been finalized as required under the Water Act 2016. Key sector institutions have been established as per the Water Act 2016 and are operational.			
► Percentage of institutions mandated by the Water Act that have been established (Percentage, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	92.00	92.00	100.00
Date	01-Oct-2013	20-May-2021	19-May-2022	30-Dec-2022
<b>► Number of people with increased flood protection (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	58,774.00	66,700.00
Date	15-Apr-2015	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	Flood protection works are progressing at a slower rate than originally envisaged, due to delays in land acquisition. However, the indicator can still be achieved by the project closing date. The existing flood forecasting and early warning system for Lower Nzoia River watershed has been upgraded with better information and analytical tools to mitigate the impact of floods on communities			

#### Intermediate Results Indicators by Components

C1: Water Resources Development				
<b>► Lower Nzoia Irrigation Water User Association (LNIWUA) established and operational (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	Yes	Yes
Date	24-Jul-2013	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	This indicator has been achieved.			
<b>► Number of farmers trained in improved agriculture practices (including irrigated agriculture) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,478.00	9,344.00	12,600.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	During 2020/2021 COVID restrictions impede progress on the agriculture activities which were designed to be face to face with Lower Nzoia Farmers. With the lifting of the COVID restrictions, agricultural activities advanced significantly. Thus this indicator has reach a total number of 6,866 since last indicator reporting on Apr 2021.			
<b>► Number of household water connections (new or rehabilitated) in Mombasa supported under the project (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,700.00	3,000.00	7,000.00



Date	06-Apr-2015	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	Comment on updated numbers: There was an error on the previous reporting (3,700), given the current number of connections are only 3000. Related to this the PCU has reported that since procurement of the remaining connections has been completed, the target of these connections remains achievable by closing date.			
<b>► Number of studies completed to advance investment pipeline (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	13.00	13.00	12.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
<b>► Length of flood protection structures (dykes) constructed/rehabilitated (Kilometers, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	15.00	29.96	44.00
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022

<b>C2: Effective Water Sector Institutions</b>				
<b>► Six Basin Plans Developed and Adopted (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	6.00
Date	01-Oct-2013	29-Apr-2020	19-May-2022	30-Dec-2022
Comments:	This indicator has been achieved. All six basin plans have been completed. To be formally adopted after the basin areas are officially gazetted (after approval of the water resources regulations)			
<b>► Number of new or upgraded monitoring stations (hydrological, hydro-meteorological and ground water) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	53.00	105.00	91.00
Date	01-Oct-2013	29-Apr-2020	19-May-2022	30-Dec-2022
Comments:	Indicator is on track to be achieved by project closing date			
<b>► Land area (ha) under sustainable land and water management in Nzoia watershed (Hectare(Ha), Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	931.00	1,135.00	1,450.00



Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
▶ Number of sub-catchment management plans developed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	44.00	59.00	59.00	59.00
Date	01-Jul-2016	29-Apr-2021	19-May-2022	30-Dec-2022
▶ Lower Nzoia flood forecasting and early warning system (FFEWS) upgraded and operational (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	Yes	Yes
Date	30-Mar-2013	29-Apr-2021	19-May-2022	30-Dec-2022

C3: Support for Project Implementation				
▶ Project M&E Established and Operational (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	NA	M&E System partially established	M&E System partially established	Fully Operational
Date	01-Oct-2013	29-Apr-2021	19-May-2022	30-Dec-2022
Comments:	A new M&E/MIS system is has been developed, and the PMU is in the process of recruiting an M&E specialist to provide support on project M&E, and knowledge management.			

### Performance-Based Conditions

#### Data on Financial Performance

##### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P117635	IDA-52680	Effective	USD	155.00	125.61	29.39	102.89	11.44	90%
P117635	IDA-56740	Effective	USD	58.00	3.99	54.01	3.02	0.00	100%
P117635	TF-A0761	Closed	USD	3.50	2.80	0.70	2.80	0.00	100%

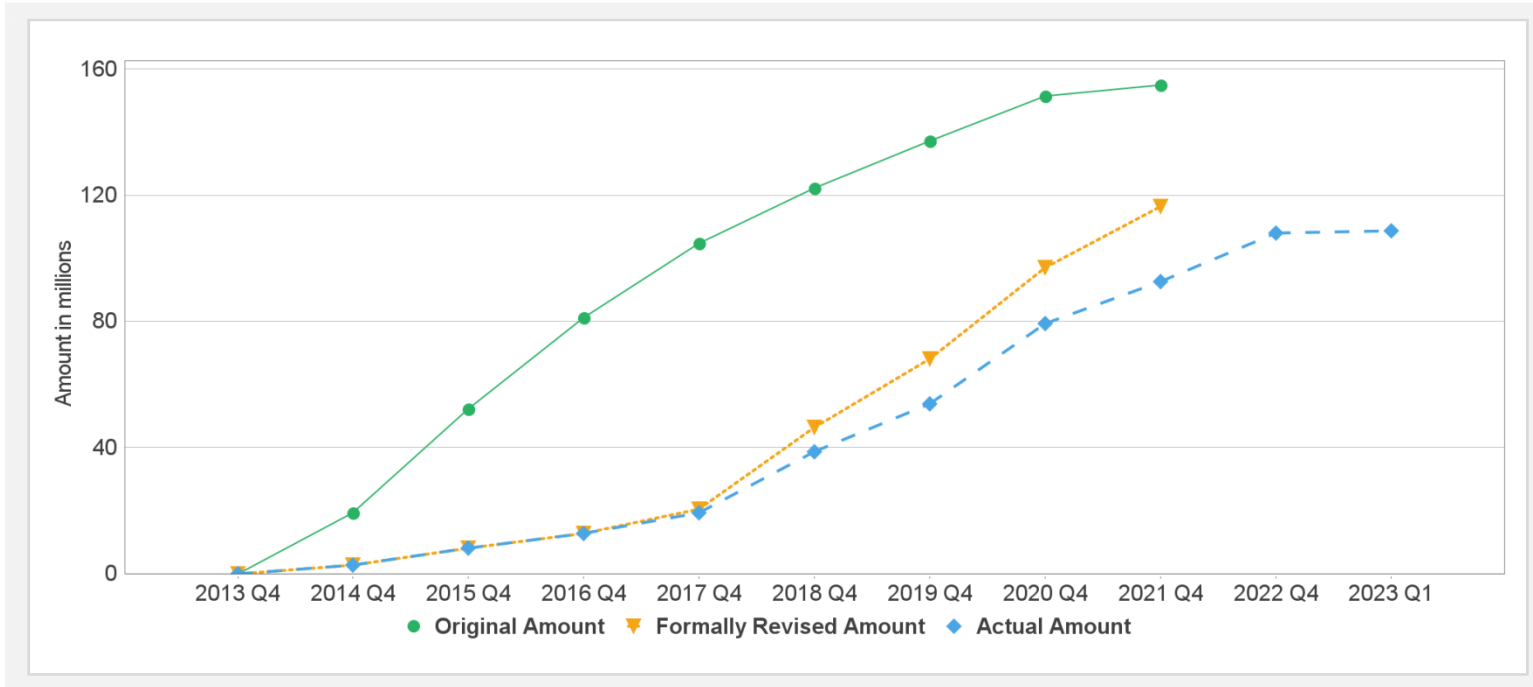
##### Key Dates (by loan)





Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P117635	IDA-52680	Effective	18-Jun-2013	29-Jul-2013	24-Oct-2013	01-Oct-2020	31-Dec-2022
P117635	IDA-56740	Effective	26-Jun-2015	07-Sep-2015	07-Sep-2015	31-Dec-2022	31-Dec-2022
P117635	TF-A0761	Closed	26-Jun-2015	07-Sep-2015	07-Sep-2015	31-Dec-2020	31-Dec-2021

**Cumulative Disbursements**



**Restructuring History**

Level 2 Approved on 04-Sep-2017 ,Level 2 Approved on 25-Jun-2019 ,Level 2 Approved on 15-Dec-2020 ,Level 2 Approved on 20-Feb-2022

**Related Project(s)**

P151660-Addl Financing - Kenya Water Security and Climate Resilience Project