



Looking back at the Belgian development cooperation in the water sector in Uganda over the past 10 years

Last update: July 2020

Status of SDG6

A few charts on the status of water resources and on SDG6 in Uganda are in Figure 1 to Figure 4. More detailed and updated information can be found on the [Uganda's country snapshot](#) provided in the [UN-Water SDG6 data portal](#), and the WHO – UNICEF Joint Monitoring Program's [Uganda's country file](#).

Belgian and international ODA to water sector

Based on the database reporting the Belgian ODA, 4.494.534 EUR have been allocated to the water sector in Uganda between 2008 and 2019, which corresponds to 0.6% of the total Belgian ODA to water sector through bilateral aids (Figure 5), and to 2% of the total Belgian ODA to the country (Figure 6). The main contractor has been Join for Water NGO and to a lesser extent the Flemish interuniversity council and the private sector donor country (Figure 7). Projects and programs have mainly been implemented in basic and large water infrastructures and agricultural water. The list of water program and projects are in Table 2. According to OECD's Credit Reporting System, DAC countries giving more than 1million US\$ to Uganda for the Water and Sanitation sector between 2014 and 2018 are Germany (107M US\$), Austria (25M US\$), Japan (20M US\$), United States (16M US\$), Korea (9M US\$), Ireland (5M US\$), Switzerland (2M US\$), Belgium (2M US\$), Denmark (2M US\$), United Kingdom (2M US\$) and Italy (2M US\$) (Table 1).

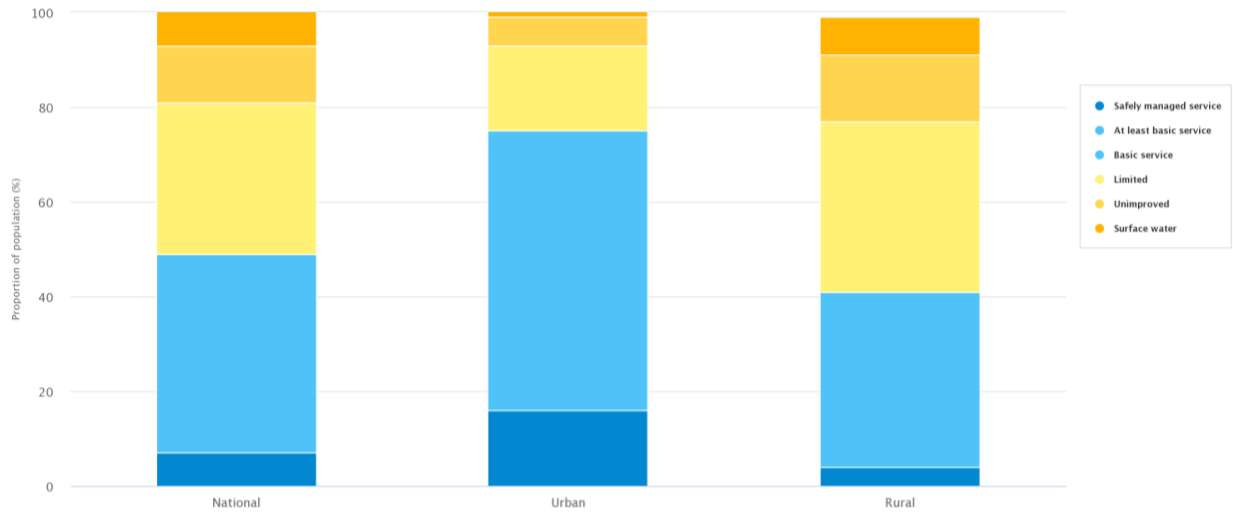
Belgian organisations with projects in Uganda over the course of the past 10 years

Twenty-four Belgian organisations having expertise in water have reported having been active in Uganda between 2010 and 2019 (Table 3). Eight are NGOs, one is NPO or fourth pillar, one is a group, ten are from the private sector, two are public agencies, one public utility, and four are research institutions.

Academic water research in Uganda over the course of the past 10 years

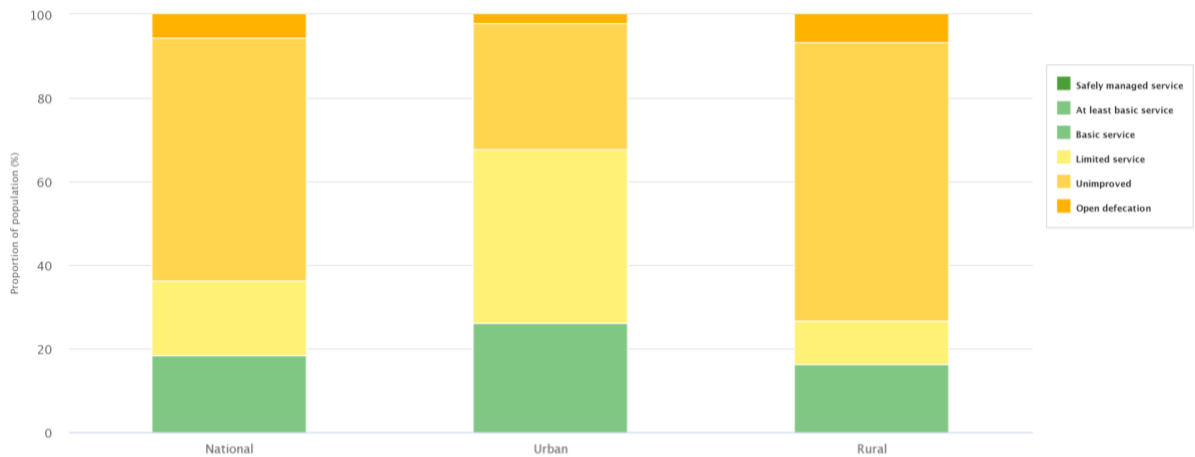
Five peer-reviewed papers have been published by research team including authors from Belgium and Uganda. Research domains are in the field of Aquaculture, water conservation technologies and water quality (Table 4).

Figure 1. Proportion of population using drinking water services in Uganda, by service level and by location (SDG6.1.1, 2017).



Data source: WHO, UNICEF
Exported from UN-Water <https://sdg6data.org> on 24 July 2020

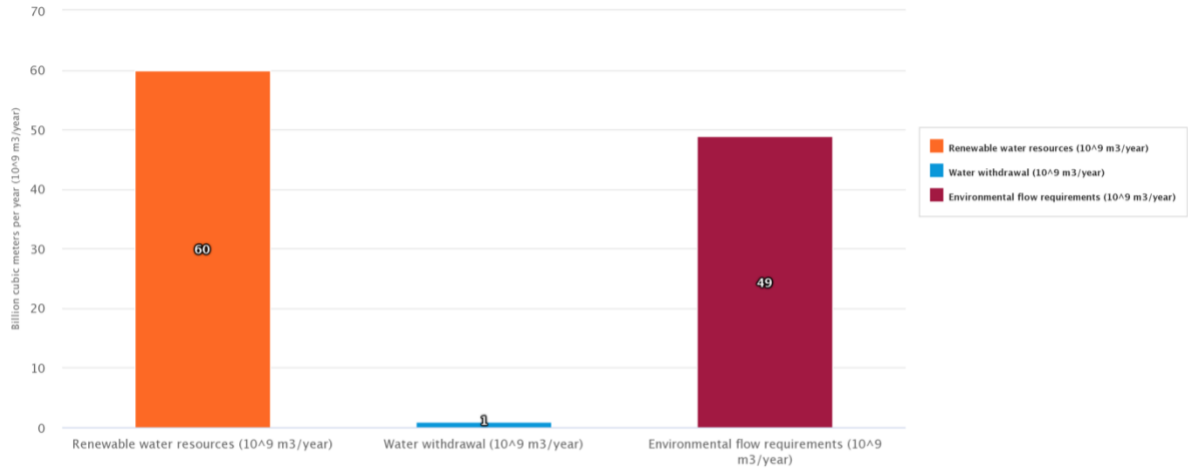
Figure 2. Proportion of population using sanitation services in Uganda, by service level and by location (SDG6.2.1a.; 2017).



Data source: WHO, UNICEF
Exported from UN-Water <https://sdg6data.org> on 24 July 2020

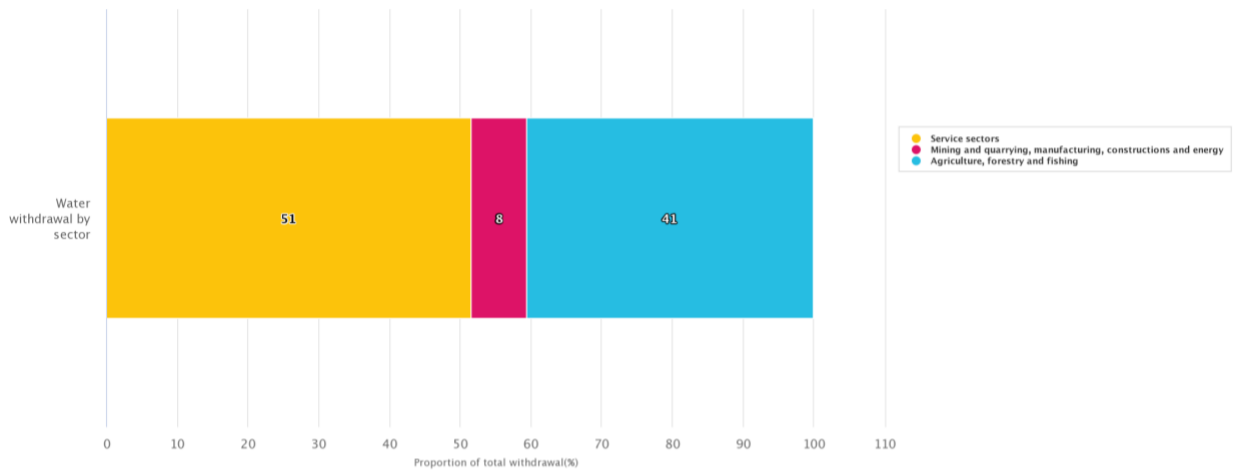
Figure 3. Water resources and withdrawal in Uganda, per capita and by source.

- Long-term average annual precipitation in depth: 1,180 (mm/year) (2017)
- Renewable water resources: 1,402 m³ per capita (2017)
- Water withdrawal: 18 m³ per capita (2008)
- Environmental flow requirements: 82 % of the renewable water resources (2017)



Data source: FAO
Exported from UN-Water <https://sdg6data.org> on 24 July 2020

Figure 4. Water withdrawal by sector in Uganda, as a percentage of total water withdrawal (2008).



Data source: FAO
Exported from UN-Water <https://sdg6data.org> on 24 July 2020

Figure 5. Total Belgian ODA to water per sub-sectors, with the ODA to Uganda highlighted in blue.

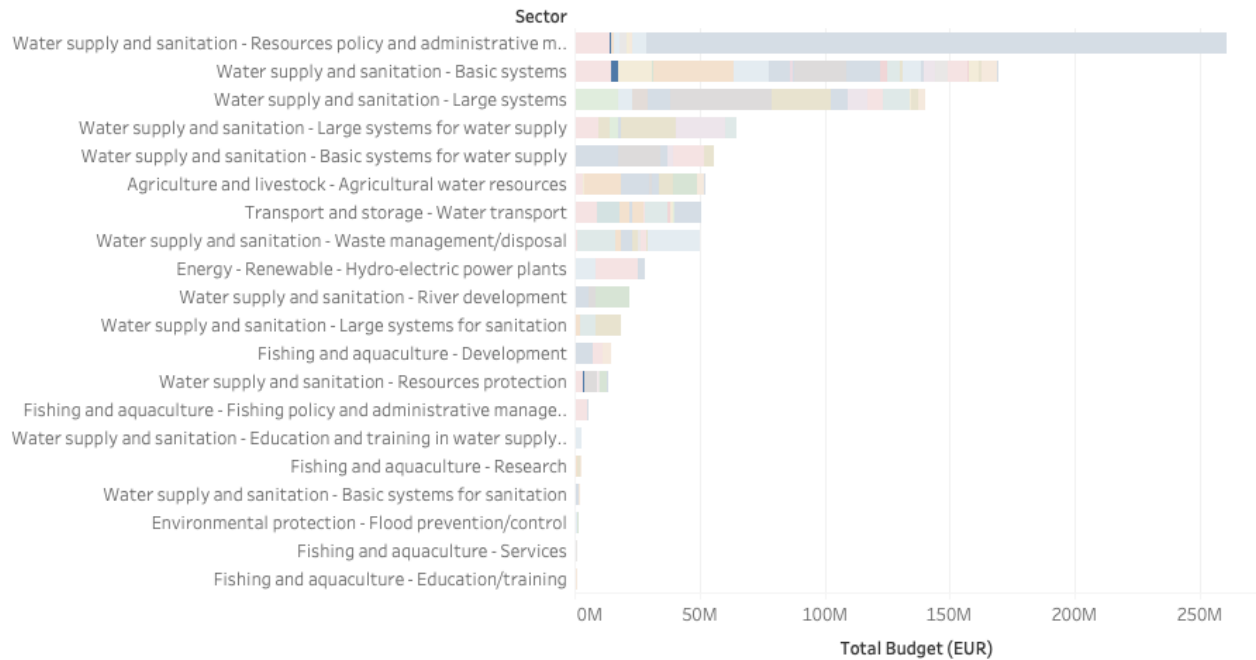


Figure 6. ODA to water (blue) in comparison to other sectors (grey) in Uganda.
The size of the circle is proportional to the budget.

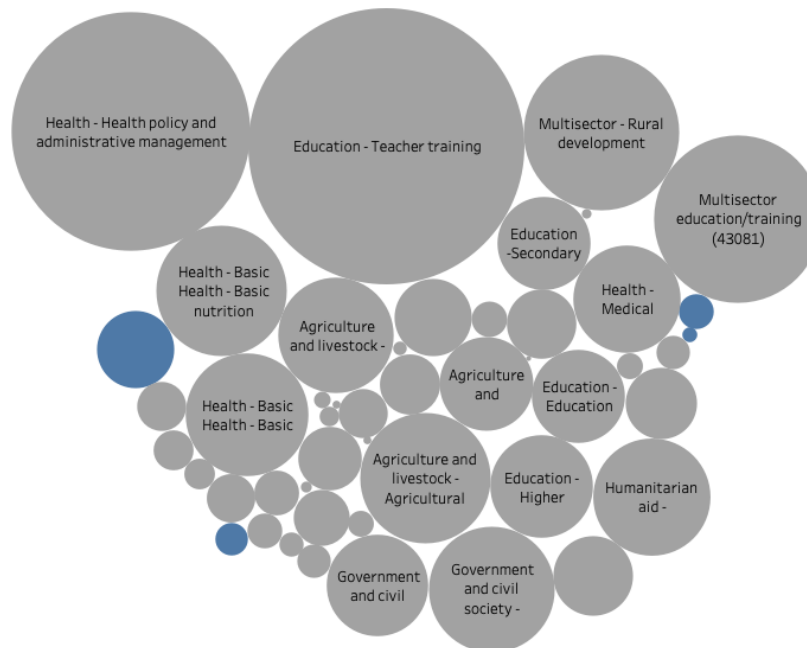


Figure 7. Contractors per water sector

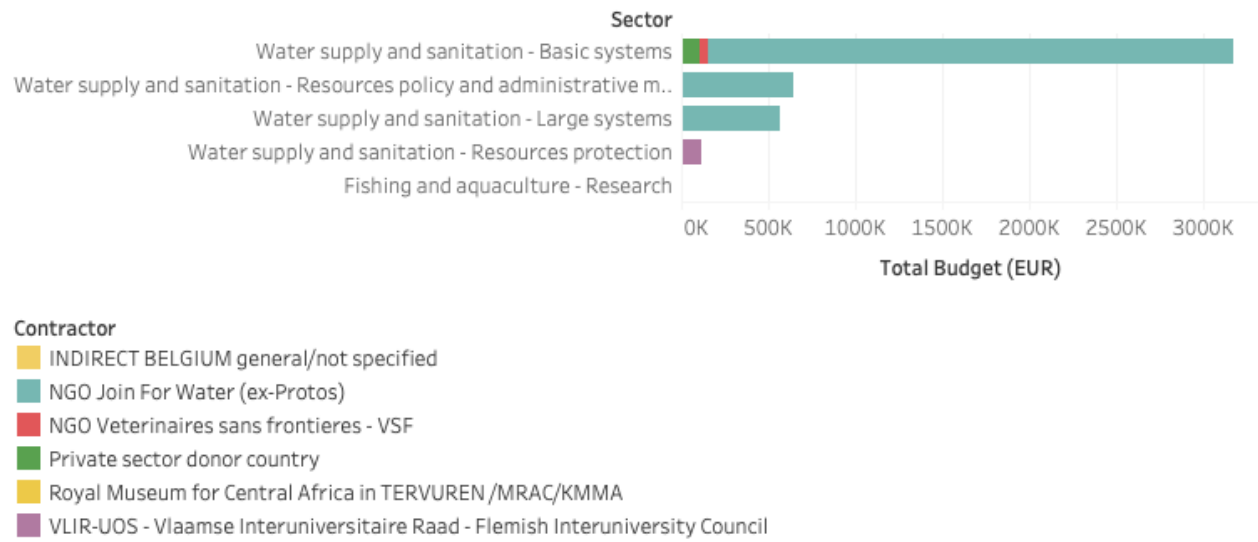


Table 1. ODA water supply and sanitation sector (ODA sector code 140) to Uganda by DAC countries, cumulated between 2014 and 2018¹.

DAC Countries	2014 - 2018 Commitment (Millions 2018 US\$)	
Germany	\$	106,70
Austria	\$	24,89
Japan	\$	20,33
United States	\$	15,59
Korea	\$	9,32
Ireland	\$	4,68
Switzerland	\$	2,14
Belgium	\$	1,97
Denmark	\$	1,63
United Kingdom	\$	1,54
Italy	\$	1,52
France	\$	0,60
Finland	\$	0,51
Norway	\$	0,31
Hungary	\$	0,27
Iceland	\$	0,15
Poland	\$	0,13
Canada	\$	0,12
Spain	\$	0,04
Australia	\$	0,04

¹ Source: OECD Credit Reporting System. <https://stats.oecd.org/>. Accessed June 2020.

Table 2. List of water projects funded by Belgian ODA.Typology: **B01**-Core support to NGOs, other private bodies, PPPs and research institutes; **C01**-Project-type interventions.

Contractor	Type	Title	Effective Start Dt	Effective End Dt	Budget (EUR)
INDIRECT BELGIUM general/not specified	C01	Afromaison. Beveiliging van de drinkwatervoorziening voor de Gemeente Fort Portal in Oeganda door bekken-bescherming, sensibilisering en capaciteitsopbouw			
	C01	Subside de la province Flandre-Occidentale: gestion d'eau intégrale			
	C01	Aide de la province d'Anvers: eau pour Mulanda			
NGO Join For Water (ex- Protos)	B01	Duurzame toegang tot en beheer van water in de Grote Meren	01-01-2011	31-12-2013	614673
	C01	Aide de la province d'Anvers: gestion d'eau			
	B01	Toegang tot en beheer van water en sanitatie in Oeganda	01-01-2011	31-12-2016	646268
	B01	Toegang tot en beheer van water rond de Grote Meren	01-01-2008	31-12-2010	562882
	C01	Projet de gestion de l'eau	25-01-2006		
	C01	Time for solutions: van Integraal Water Beheer richtlijnen naar concrete resultaten			
	C01	Gestion de l'eau Lac George	25-01-2006		125000
	C01	La gestion durable de l'eau dans le bassin du lac George			50000
	B01	Improvement of integrated water resources management in 2 catchment areas in Uganda	01-01-2017		2221426
NGO Veterinaires sans frontieres - VSF	C01	WASH Uganda - Water, Sanitation and Hygiène North Uganda			
	C01	Een betere toegang tot drinkwater, sanering en hygiëne in Karamoja, Oeganda			
	C01	Accès aux ressources naturelles en particulier de l'eau pur			54844
Private sector donor country	C01	Afromaison. Beveiliging van de drinkwatervoorziening voor de Gemeente Fort Portal in Oeganda door bekken-bescherming, sensibilisering en capaciteitsopbouw			101730
Royal Museum for Central Africa in TERVUREN /MRAC/KMMA	B01	7	01-01-2019		
VLIR-UOS - Vlaamse Interuniversitaire Raad - Flemish Interuniversity Council	B01	Projet de cooperation universitaire - Initiative propre 2006 - Diagnostic et assainissement des terres dégradées dans la zone riveraine du lac Victoria, en Ouganda - contrôle de l'eutrophisation des eaux du lac			117711

Table 3. Belgian organizations in the water sector that reported having had projects in Uganda over the course of the past 10 years.

Source: [Water Nexus database of water Actors](#). Might not be a comprehensive list.

Sector	Acronym	Name	Website	Keywords	Description
Government-recognised NGO	IDP	Iles de Paix	www.ilesdepaix.org	Agriculture- Farmers	Iles de Paix appuie le secteur de l'agriculture familiale au niveau duquel l'amélioration de la gestion des ressources hydriques disponibles est fondamental.
	Join For Water	Protos - Join For Water	www.joinforwater.ngo	Sanitation Chain- Water Provision- Water Resource Management- Lobby- Participation- Capacity Building	Join For Water reinforces an equitable, sustainable and participatory water management and water use: our mission explains what we understand by this and how we wish to put this into practice.
	VSF / DZG	VSF Dierenartsen Zonder Grenzen Belgium	www.veterinairensansfrontieres.be - www.dierenartsenzondergrenzen.be	Animal Water Supply	/
	TRIAS	TRIAS	www.trias.ngo	Mbo- Empowerment- Businesses- Agriculture	Empowerment and support for businesses, focus on agriculture.
	CI.be	Caritas International	www.caritasinternational.be	Food Security-Agroecology- Livelihoods-Humanitarian Aids- Migration	La thématique principale de nos activités est "la sécurité alimentaire" (dans lequel s'intègrent différentes activités liées à l'eau) ou la réponse à des catastrophes.
	ETM - KDW	Enfance Tiers Monde/Kinderen Derde Wereld	www.efancetiersmonde.be	Vulnerable Children And Youth- Empowerment- Re-Integration	/
	Tearfund	Tearfund	www.tearfund.be	Poverty Eradication- Communities- Empowerment Of Children And Women- Emancipation	Poverty eradication through education and healthcare.
	UCOS	Universitair Centrum voor Ontwikkelingssamenwerking	www.ucos.be	Global Citizenship- Higher Education	University centre for development cooperation, designed to strengthen global citizenship among students in higher education.
NPO or 4th pillar organisation	RIKOLTO	RIKOLTO (ex-Vredeseilanden)	www.rikolto.org	Sustainable Agriculture- Harvesting- Smallholder Farmers- Building Bridges- Fair Trade	Empowerment and support for farmers and fo
Platform / group / center	Ovo	ondernemers voor ondernemers	www.ondernemersvoorondernemers.be	Enterpreneurship- Loans	/

Sector	Acronym	Name	Website	Keywords	Description
Private sector organisation		Metaphora		Strategy- Strategic Plans	/
		Sotrad Water	www.sotradwater.be	Treatment- Pumps- Ultra Filtering- Stockage- Solar	/
	Antea Group	Antea Belgium NV	www.anteagroup.be	Numeric Modelling- Integrated Water Resources Management- Ecosystem Based Approach- Climate Change Adaption	As an international engineering and environmental consulting firm, Antea Group specializes in full-service solutions in the fields of water, environment, infrastructure, and urban planning. We combine strategic thinking and multidisciplinary perspectives with technical expertise and pragmatic action to effectively solve client challenges while delivering sustainable results for a better future.
	W+B	Witteveen+Bos	https://www.witteveenbos.com/nl/belgie/	Engineering Projects-Sustainable Development Goals-Impact-Designing For The Future	As an engineering and consultancy firm, we advise and help clients all over the world in resolving today's complex challenges. With a network of 21 offices in 11 countries and some 1,100 engineers and consultants, we work on improving the human environment for everyone, today and for future generations. Together with our stakeholders, we contribute to social, ecological and economic progress, with the sustainable development goals of the United Nations serving as an inspirational guideline.
	SHER	SHER Ingéneurs-Conseils s.a.	www.sher.be	Impact Research- Water Treatment- Alimentation- Potable Water- Irrigation- Hydroelectricity	Water research office
	IzG	Ingenieurs zonder Grenzen	izg.be	Groundwater-Surface water-Borehole- Water treatment-Water quality control- Ultrafiltration	
Public agency	Enabel	Belgian Development Agency		/	/
		VVOB	www.vvob.org	Strengthen Education Systems Worldwide	Strengthening education systems worldwide. Possibility to provide education and training for water technicians through programmes in technical and vocational education.
Public utility / enterprise	VLIR-UOS	Vlaamse Interuniversitaire Raad - Universitaire Ontwikkelingssamenwerking	www.vliruos.be	Higher Education- Outreach	/

Sector	Acronym	Name	Website	Keywords	Description
Research institute or team; Knowledge center	ProcESS	Process Engineering for Sustainable Systems		Water Technology-Membranes	/
	KU Leuven - Hydraulics	KU Leuven - Dept. Civil Engineering - Hydraulics Section	www.bwk.kuleuven.be/hydr	Hydrological Extremes- Climate Change Impacts- Climate Adaption	/
		Ghent University		Integrated Water Management-Natural Risks-Climate Change Adaptation-River Morphology-Coastal Erosion	/
	KU Leuven	Universiteit Leuven	www.ees.kuleuven.be/fnl/	/	/
	UAntwerp	University of Antwerp	https://www.uantwerpen.be/en/centres/environment-sustainable-development/	River Basin Management-Ecosystem Services-Water Technology-Water Governance-Toxicology	NA

Table 4. Peer-reviewed, academic publications on water co-published with researchers from Belgium and Uganda between 2010 and 2019. Belgian authors are in bold font.

Authors	Belgian Insitutions	Title	Year	Journal	DOI
Elsen A. , Goossens B., Belpaire B., Neyens A., Speijer P., De Waele D.	Ghent University, Department of Biology,Ghent.	Recolonisation by nematodes of hot water treated cooking banana planting material in Uganda	2004	Nematology	https://doi.org/10.1163/1568541041217997
Speijer P.R., Gold C.S., Goossens B., Karamura E.B., Elsen A. , De Waele D.	KU leuven, Department of Biosystems, Leuven.	Rate of nematode infestation of clean banana planting material (Musa spp. AAA) in Uganda	2000	Acta Horticulturae	https://doi.org/10.17660/ActaHortic.2000.540.52
Akurut M. , Willems P. , Niwagaba C.B.	KU Leuven, Department of Civil Engineering, Leuven.	Assessing the influence of Lake Victoria flux on the inner Murchison bay water quality	2014	WIT Transactions on Ecology and the Environment	https://doi.org/10.2495/WIT140051
Ronald L., Van Stappen G. , Van Hoa N., Sorgeloos P.	Ghent University, Laboratory of Aquaculture & Artemia Reference Center, Faculty of Bioscience Engineering, Ghent.	Effect of carbon/nitrogen ratio manipulation in feed supplements on Artemia production and water quality in solar salt ponds in the Mekong Delta, Vietnam	2014	Aquaculture Research	https://doi.org/10.1111/are.12135
Mugonola B. , Deckers J. , Poesen J. , Isabirye M., Mathijs E.	KU Leuven, Department of Earth and Environmental Sciences, Leuven.	Adoption of soil and water conservation technologies in the Rwizi catchment of south western Uganda	2013	International Journal of Agricultural Sustainability	https://doi.org/10.1080/14735903.2012.744906