

## Annex C – Quantitative Results and Results Framework

Table 1 lists the potential investment projects influenced by the program where preparation studies enable estimations of investment values and project beneficiaries. Table 2 lists those investment projects influenced by CIWA that have thus far mobilized resources. Depending on the project, and on the cooperation status of the specific basin, CIWA’s influence on investments and beneficiaries can vary.

**Table 1. Potential Investments Influenced by CIWA**

Potential Investments	CIWA’s Role	Estimated Current Investment Value (US\$ Billions)	Estimated Number Of Potential Beneficiaries (Millions)	Anticipated Benefits
Nile Basin Investments	Support for NBI to facilitate cooperative activities such as improved IWRPM, and the identification and preparation of regionally significant cooperative investments	7.6	8.8	Increased water supply, increased power generation, improved watershed management, irrigation development
Lesotho Highlands-Botswana Water Transfer	Financing study to explore costs and benefits of water transfer and incentivize cooperation	0.8	2	Increased water supply, additional revenues
Cubango-Okavango Livelihood Enhancement Program	Support for the Multi-Sector Investment Opportunities Analysis used to develop long-term investment and livelihood improvement programs. Ongoing support for developing the next phase following MSIOA	0.9	Not yet available	Increased income, access to water, sanitation and sustainable energy, actions to address hunger and disease, and promotion of gender equality, education and environmental sustainability

Luapula Sub-basin Investments	Exploring potential cooperative legal and institutional arrangements for a future Luapula River Authority	1.9	Not yet available	Increased power generation
Volta Basin Investments	CIWA financing provided to the Volta Basin Authority through P149969 allowed preparation of a number of investments (feasibility studies and detailed engineering design) for watershed restoration, river bank protection, and sustainable livelihoods	0.007	0.006	These investments will provide basin-wide, cross-boundary benefits in the six basin countries, by improving water quality, flow regulation, ecosystem improvements, and development of sustainable livelihood activities. At least 6000 people are expected to benefit from these activities
<b>TOTAL</b>		<b>11.2</b>	<b>10.8</b>	

**Table 2. Mobilized Investments Influenced by CIWA**

<b>Mobilized Investments</b>	<b>CIWA's Role</b>	<b>Estimated Current Investment Value (US\$ Billions)</b>	<b>Estimated Number Of Direct Beneficiaries (Millions)</b>	<b>Benefits</b>
Niger Basin Climate Resilience Investment Project	Conducted technical and political consultations to develop investment plan	0.2	4.0	Rural livelihoods, early warning and climate information systems, climate resilience
Kandadji Dam	Supported analytical study of resettlement best practices	1.0	1.0	Increased Power generation, irrigation development, job creation

Kariba Dam	Produced studies on rehabilitation of the Dam which led to decision to invest in safety and reliability improvements	0.294	3.0	Increased power generation, reduced risk, and avoided disaster
Batoka Gorge HES	Analysis of financial implications of the investment and facilitated negotiations to review findings and encourage renewal of project. Additional engineering studies and investment preparation	4	6.0	Increased power generation
Lake Chad Recovery Project (building on the Lake Chad Development and Climate Resilience Action Plan)	Support for development of Action Plan to execute the investments within Climate Resilience project	0.165	Not yet available	Rural livelihoods, climate resilience
The Multinational Lakes Edward and Albert Integrated Fisheries and Water Resources Management Project	Support for the Nile Basin Discourse to prepare this scale-up of an earlier pilot project with a focus on participatory and conflict sensitive consultations and bi-lateral cooperation	0.025	0.2	Rural livelihoods, fisheries, ecosystem management
Rusumo Falls Hydroelectric Scheme	Supported implementation and mapping of resettlement development plan	0.34	1.4	Increased power generation
Nyimur and Kabuyanda Multi-purpose	Supported Nile Basin Discourse to ensure stakeholder engagement	0.18	0.5	Improved irrigation, hydroelectric and municipal use

Regional Hydromet	Institutional support for Nile Basin Initiative design and implementation	0.005	0.000450	Improved hydrological and meteorological information
<b>TOTAL</b>		<b>6.2</b>	<b>16.1</b>	

### Program Development Objective (PDO)

To strengthen the cooperative management and development of international waters in Sub-Saharan Africa to facilitate sustainable climate-resilient growth.

**Indicator 1:** US dollar financing mobilized for cooperative management and development of international waters projects supported by CIWA

**FY19 Target:** US\$10 billion in potential projects influenced by CIWA.

**FY19 Actual:** US\$17.4 billion (US\$11.2 billion in potential investments influenced by CIWA; US\$ 6.2 billion in mobilized investments influenced by CIWA).

**Indicator 2:** Number of people directly benefiting from improved water resources management and development in target basins through projects supported by CIWA

**FY19 Target:** 40 million potential beneficiaries of projects influenced by CIWA.

**FY19 Actual:** 26.9 million (10.8 million potential beneficiaries of projects influenced by CIWA; 16.1 million direct beneficiaries of mobilized investments influenced by CIWA.)

### Intermediate Result 1. Regional Cooperation And Integration Strengthened

**Indicator 1:** Number of relevant transboundary institutions strengthened to improve regional cooperation

**FY19 Target:** Eight relevant institutions with projects or activities in operation<sup>1</sup>.

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<sup>1</sup> Following CIWA Results Framework methodology, Intermediate Result 1, Indicator 1 is reported as a cumulative total for interim reporting periods. The nine relevant institutions reported under FY18 actual achievement include projects that are legally closed.

**FY19 Actual:** Eleven relevant institutions – ECOWAS, IGAD, LCBC, NBA, NBI, NBD, OKACOM, SADC, VBA, ZAMCOM, ZRA, (eleven relevant institutions, including six basin authorities, three Regional Economic Commissions (RECs), one transboundary utility, and one civil society network) – have projects or activities in operation.

**Indicator 2:** Number of strategic analyses and knowledge products used to illustrate the evidence base for cooperation, needs, and challenges

**FY19 Target:** 20 strategic analyses conducted and used.

**FY19 Actual:** 36 strategic studies completed and used.

In the FY19 period the SADC completed the Guidelines for the Groundwater Development in the SADC Region, the Niger Basin project completed an institutional and organizational analysis of the NBA, four thematic papers were produced in the Zambezi project looking at a) economics and socio-economics; b) water resources; c) Ecosystems and land-use; and d) climate variability and change for the Basin, and the Nile project produced the analyses: Flood preparedness and early Warning Seasonal Monitoring in the Eastern Nile Basin, Watershed Management Impact Assessment for Scaling-up, Groundwater Availability and Conjunctive Use Assessment, and Irrigation System Performance Assessment and Options for Improvement.

**The following 26 strategic analyses were reported previously:**

- Three legal equivalence and harmonization studies were completed in the Zambezi River Basin
- The Okavango Multi-sector Investment Opportunity Analysis
- Climate Resilience in Africa: The role of cooperation around transboundary waters
- Fouta Djallon Water Atlas (ECOWAS)
- Sustainable Financing Mechanisms for the Mono Basin Authority (MBA)
- Volta Basin Authority Institutional Assessment
- Eastern Nile Multi-sector Investment Opportunity Analysis
- Lake Tanganyika Options Analysis
- Political Economy of Cooperation in International Waters in Africa
- Economic Rationale for Cooperation in International Waters in Africa
- An Institutional Assessment of Transboundary Watercourses in Africa
- Improved Access to Basin Data activity was also finalized, and produced important inputs to the Spatial Agent App, a publication titled “Spatial Data Primer and the CIWA Africa Atlas”
- Climate Change Assessment of the Energy-Water Nexus for the Zambezi Basin
- The assessment of the first phase of the Kandadji resettlement program

- Lake Chad Development and Climate Resilience Action Plan diagnostic
- Priority Needs for Lake Chad Basin Information Systems report
- Nile Cooperation: Opportunities and Challenges
- Nile Cooperation: Lessons for the World and Lessons from the World for the Nile Basin
- Four briefing papers on Nile cooperation 2024 scenarios
- Assessments of instruments and practices for conserving ecosystem services
- Good practices in gender mainstreaming in Nile Basin Initiative
- Quantification of benefits in transboundary water cooperation
- Eastern Nile Technical Regional Office published and disseminated a number of knowledge products including a watershed management field guide entitled “What have we brought back from China”
- Institutional Assessment of the Zambezi River Authority.

## Intermediate Result 2. Water Resources Management Strengthened

**Indicator:** Number of relevant transboundary institutions using improved analytical tools, knowledge products, data, forecasting, and/ or capacity for improved water and climate risk management or investment operation coordination

**FY19 Target:** Seven relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination.

**FY19 Actual:** Eleven relevant institutions have projects in operation that contribute to strengthening water resources management. – ECOWAS, IGAD, LCBC, NBA, NBI, NBD, OKACOM, SADC, VBA, ZAMCOM, and ZRA, have/had projects in operation that contribute to strengthening water resources management.

## Intermediate Result 3. Water Resources Development Strengthened

**Indicator 1:** Number of investment opportunities with regional benefits that have been advanced through CIWA support

**FY19 Target:** 35 investment opportunities with regional benefits influenced by projects in operation.

**FY19 Actual:** 37 investment projects are being advanced by projects in operation (31 reported previously). NBA, NBI, VBA, ZRA, OKACOM, LCBC have projects in operation that contribute to advancing 37 investment opportunities. In the Volta River Basin, Mali, Togo, Benin, Burkina Faso, Cote d’Ivoire, Ghana

**Indicator 2:** Number of relevant transboundary institutions with an improved approach to sustainable investment planning and bankable investment preparation

**FY19 Target:** Five institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation.

**FY19 Actual:** Six institutions have relevant projects in operation. LCBC, NBA, NBI, ZAMCOM, ZRA, and now VBA, have projects in operation that contribute to improving the approach to sustainable investment planning and bankable investment preparation. In FY19 the VBA has developed a system of agreed Action Plans with focal point in national institution in each country, which allowed an efficient preparation of feasibility and detailed design studies for the six new proposed investments.

#### **Intermediate Result 4. Stakeholder Engagement And Coordination Strengthened**

**Indicator 1:** Number of basins with improved engagement of civil society, private sector and academia; Percentage of engagements where improved stakeholder engagement explicitly supports the incorporation of gender issues into the design and implementation of water management and development activities

**FY19 Target:** Five basins with projects or activities in operation, 50 percent of engagements explicitly support the incorporation of gender into the design and implementation of water management and development activities.

**FY19 Actual:** Seven basin institutions in five basins, plus one REC (NBA, NBI, NBD, OKACOM, SADC, VBA, ZRA, and ZAMCOM) have projects in operation that contribute to strengthening stakeholder engagement and coordination. The NBA, NBI, NBD, SADC, ZRA, and now the VBA, have explicit communication, stakeholder engagement, gender equality, and other strategies that aim to improve gender equality through mainstreaming women's empowerment into all water management, capacity building, training, and development activities.

**Indicator 2:** Number of basins with increased water resources management and development information in the public domain

**FY19 Target:** Five basins with increased information in the public domain.

**FY19 Actual:** In FY19 CIWA Five basins with increased information in the public domain. CIWA's engagements in the Nile, Niger, Lake Chad, Zambezi, and Volta basins have contributed to increased water resources management, climate data, and water development information in the public domain. In FY19, VBA's new communications plan ensured that all activities included an active dissemination effort. This put significant information into the public domain, through radio, television and print media. VBA is currently in the process of operationalizing its website as a primary portal for basin level information.

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<sup>[1]</sup> Total values and values for particular projects, such as the Nile Basin Investments, in Table 1 will change year on year in order to reflect the progress of investments as they move from potential to mobilized.

[2] Significant changes in the total Estimated Potential Investment Value and Estimated Number of Potential Direct Beneficiaries have occurred since the FY2017 largely due to the removal of the Fomi Dam project from Table 1. CIWA's objective with respect to the Fomi project was to improve the decision-making process. As the project is no longer moving forward as originally conceived, the project has been removed from Table 1.



# CIWA'S Results Framework and Monitoring

## IMPACT: Strengthen sustainable climate-resilient growth in Sub-Saharan Africa

Indicator	Target FY13	Target FY14	Target FY15	Target FY16	Target FY17	Target FY18	Target FY19	Target 2020
<b>Program Development Objective: To strengthen cooperative management and development of international waters in Sub-Saharan Africa to aid sustainable climate-resilient growth.</b>								
<b>i) US\$ investment finance for cooperative management and development of international water resources projects influenced by CIWA</b>	\$4 billion (value of potential projects influenced by CIWA)	\$6 billion (value of potential projects influenced by CIWA)	\$8 billion (value of potential projects influenced by CIWA)	\$8 billion (value of potential projects influenced by CIWA)	\$9 billion (value of potential projects influenced by CIWA)	\$9 billion (value of potential projects influenced by CIWA)	\$10 billion (value of potential projects influenced by CIWA)	US\$10 billion investment finance for cooperative management and development of international waters projects influenced by CIWA
<b>Baseline: \$0 billion (value of projects influenced by CIWA)</b>			\$1.3 billion mobilized investments influenced	\$4.3 billion mobilized investments influenced	\$5.0 billion mobilized investments influenced	\$6.4 billion mobilized investments influenced	\$6.2 billion mobilized investments influenced	

<b>ii) Number of people who will directly benefiting from improved water resources management and development in target basins through projects supported by CIWA</b>	6 million (potential direct beneficiaries of projects influenced by CIWA)	8 million (potential direct beneficiaries of projects influenced by CIWA)	10 million (potential direct beneficiaries of projects influenced by CIWA)	15 million (potential direct beneficiaries of projects influenced by CIWA)	20 million (potential direct beneficiaries of projects influenced by CIWA)	30 million (potential direct beneficiaries of projects influenced by CIWA)	40 million (potential direct beneficiaries of projects influenced by CIWA)	50 million people will directly benefit from improved water resources management and development projects influenced by CIWA
	FY13 Achievement: 13.2 million potential direct beneficiaries	FY14 Achievement: 46 million potential direct beneficiaries	FY15 Achievement: 43 million potential direct beneficiaries	FY16 Achievement: 37 million potential direct beneficiaries	FY17 Achievement: 41.2 million potential direct beneficiaries	FY18 Achievement: 4.7 million potential direct beneficiaries	FY19 Achievement: 10.8 million potential direct beneficiaries	
<b>Baseline: 0 people directly benefiting</b>			5.6 million direct beneficiaries of mobilized investments influenced	10.8 million direct beneficiaries of mobilized investments influence d	11.5 million direct beneficiaries of mobilized investments influenced	12.15 million direct beneficiaries of mobilized investments influenced	16.1million direct beneficiaries of mobilized investments influenced	

**Intermediate Result 1. Regional cooperation and integration strengthened**

<b>i) Number of relevant transboundary institutions strengthened to improve regional cooperation</b>	3 basin institutions with projects in operation that contribute to strengthening regional cooperation and integration	5 relevant institutions with projects or activities in operation	6 relevant institutions with projects or activities in operation	6 relevant institutions with projects or activities in operation	8 relevant institutions with projects or activities in operation	8 relevant institutions with projects or activities in operation	8 relevant institutions with projects or activities in operation	8 transboundary institutions in at least five basins have strengthened regional cooperation and integration
	FY13 Achievement: 3 basin institutions have contributing	FY14 Achievement: 5 relevant institutions with projects in operation	FY15 Achievement: 7 relevant institutions with projects in operation	FY16 Achievement: 8 relevant institutions with projects in operation	FY17 Achievement: 8 relevant institutions with projects in operation	FY18 Achievement: 9 relevant institutions with projects in operation	FY19 Achievement: 11 relevant institutions with projects in operation	
<b>Baseline: 0 institutions strengthened</b>								

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projects in  
operation

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<b>ii) Number of strategic analyses and knowledge products used to illustrate the evidence base for cooperation, needs, and challenges</b>	3 strategic analyses conducted	4 strategic analyses conducted	5 strategic analyses conducted	18 strategic analyses conducted	20 strategic analyses conducted and used	20 strategic analyses conducted and used	20* strategic analyses used to illustrate the evidence base for cooperation
<b>Baseline:0 strategic analyses conducted by CIWA</b>	FY14 target partially met: Many strategic analyses are underway, one is complete.	FY15 target partially met: Many strategic analyses are underway, two are complete.	FY16 Achievement: 16 strategic analyses conducted	FY17 Achievement: 23 strategic analyses conducted	FY18 Achievement: 26 strategic analyses conducted	FY19 Achievement: 36 strategic analyses conducted and used	

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**Intermediate Result 2. Water resources management strengthened**

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<p><b>i) Number of relevant transboundary institutions using improved analytical tools, knowledge products, data, forecasting, and/or capacity for improved water and climate risk management or investment operation coordination</b></p> <p><b>Baseline: 0 institutions using tools, data and capacity improved with CIWA support</b></p>	<p>3 basin institutions with projects in operation that contribute to strengthening water resources management</p> <p>FY13 Achievement: 3 basin institutions have contributing projects in operation</p>	<p>4 relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination</p> <p>FY14 Achievement: 5 relevant institutions have projects in operation that contribute to strengthening water resources management</p>	<p>5 relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination</p> <p>FY15 Achievement: 5 relevant institutions have projects in operation that contribute to strengthening water resources management</p>	<p>5 relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination</p> <p>FY16 Achievement: 7 relevant institutions have projects in operation that contribute to strengthening water resources management</p>	<p>7 relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination</p> <p>FY17 Achievement: 8 relevant institutions have projects in operation that contribute to strengthening water resources management</p>	<p>7 relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination</p> <p>FY18 Achievement: 9 relevant institutions have projects in operation that contribute to strengthening water resources management</p>	<p>7 relevant institutions with projects in operation that improve water and climate risk management and/or investment operation coordination</p> <p>FY19 Achievement: 11 relevant institutions have projects in operation that contribute to strengthening water resources management</p>	<p>7* institutions in at least four basins using improved analytic tools, knowledge products, data, forecasting, and/or capacity for improved water and climate risk management or investment operation coordination</p>
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**Intermediate Result 3. Water resources development strengthened**

<p><b>i) Number of investment opportunities with regional benefits that have been advanced through CIWA support</b></p> <p><b>Baseline: 0 investment opportunities with regional benefits advanced by CIWA</b></p>	<p>2 basin institutions with projects in operation</p> <p>FY13 Achievement: 2 basin institutions have contributing projects in operation</p>	<p>2 investment opportunities with regional benefits influenced by projects in operation</p> <p>FY14 Achievement: Multiple investment projects are being advanced by projects in operation.</p>	<p>4 investment opportunities with regional benefits influenced by projects in operation</p> <p>FY15 Achievement: 22 investment projects are being advanced by projects in operation.</p>	<p>6 investment opportunities with regional benefits influenced by projects in operation.</p> <p>FY16 Achievement: 31 investment projects are being advanced by projects in operation.</p>	<p>31 investment opportunities with regional benefits influenced by projects in operation.</p> <p>FY17 Achievement: 32 investment projects are being advanced by projects in operation.</p>	<p>35 investment opportunities with regional benefits influenced by projects in operation.</p> <p>FY18 Achievement: 31 investment projects are being advanced by projects in operation.</p>	<p>35 investment opportunities with regional benefits influenced by projects in operation.</p> <p>FY19 Achievement: 37 investment projects are being advanced by projects in operation.</p>	<p>35* investment opportunities with regional benefits that have been advanced through CIWA support.</p>
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<b>ii) Number of relevant transboundary institutions with an improved approach to sustainable investment planning and bankable investment preparation<sup>2</sup></b>	2 institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation	3 institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation	4 institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation	5 institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation	5 institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation	5 institutions with projects in operation that improve the approach to sustainable investment planning and bankable investment preparation	5 relevant transboundary institutions with an improved approach to sustainable investment planning and bankable investment preparation
<b>Baseline: 0 basins supported by CIWA</b>	FY14 Achievement: 2 institutions have relevant projects in operation	FY15 Achievement: 3 institutions have relevant projects in operation	FY16 Achievement: 5 institutions have relevant projects in operation	FY17 Achievement: 5 institutions and four national governments have relevant projects in operation	FY18 Achievement: 5 institutions and four national governments have relevant projects in operation	FY19 Achievement: 6 institutions and four national governments have relevant projects in operation	

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<sup>2</sup> Sustainable investment preparation includes consideration of poverty, gender, long-term climate change among other social and environmental considerations

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**Intermediate Result 4. Stakeholder engagement and coordination strengthened**

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<p><b>i) Number of basins with improved engagement with civil society, private sector and academia; percentage of percent with engagements where improved stakeholder engagement explicitly supports the incorporation of gender issues into the design and/or implementation of water management and development activities</b></p> <p><b>Baseline: 0 engagements with improved stakeholder engagement and incorporation of gender considerations</b></p>	<p>3 basin institutions with projects in operation that contribute to strengthening stakeholder engagement and coordination</p> <p>FY13 Achievement: 3 basin institutions have contributing projects in operation</p>	<p>3 basins with projects or activities in operation; 30 percent of which include organizations representing interests of women and/or the poor</p> <p>FY14 Achievement: 4 basin institutions have projects in operation that contribute to strengthening stakeholder engagement; only 25% of which have an explicit linkage with organizations representing the interests of women with projects or activities in operation</p>	<p>4 basins organizations representing interests of women and/or the poor</p> <p>FY15 Achievement: 5 basin institutions have projects in operation that contribute to strengthening stakeholder engagement; only 20% of which have an explicit linkage with organizations representing the interests of women</p>	<p>5 basins with projects or activities in operation; 50 percent of which include organizations representing interests of women and/or the poor</p> <p>FY16 Achievement: 5 basin institutions have projects in operation that contribute to strengthening stakeholder engagement; only 20% of which have an explicit linkage with organizations representing the interests of women</p>	<p>5 basins with projects or activities in operation; 50 percent of which include organizations representing interests of women and/or the poor</p> <p>FY17 Achievement: 7 basin institutions have projects in operation that contribute to strengthening stakeholder engagement; 50% explicitly supports incorporation of gender issues into design and implementation of the activity</p>	<p>5 basins with projects or activities in operation; 50 percent explicitly supports incorporation of gender issues into design and implementation of the activity</p> <p>FY18 Achievement: 7 basin institutions have projects in operation that contribute to strengthening stakeholder engagement; 50% explicitly supports incorporation of gender issues into design and implementation of the activity</p>	<p>5 basins with projects or activities in operation; 50 percent explicitly supports incorporation of gender issues into design and implementation of the activity</p> <p>FY19 Achievement: 7 basin institutions have projects in operation that contribute to strengthening stakeholder engagement; 50% explicitly supports incorporation of gender issues into design and implementation of the activity</p>	<p>5 basins with improved engagement with civil society, private sector and academia; 60 percent explicitly supports incorporation of gender issues into design and implementation of the activity</p>
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<b>ii) Number of basins with increased water resources management and development information in the public domain</b>  <b>Baseline: 0 basins</b>	1 basin with increased information in the public domain  FY14 Achievement: 1 basin has increased information in the public domain	2 basins with increased information in the public domain  FY15 Achievement: 1 basin has increased information in the public domain	3 basins with increased information in the public domain  FY16 Achievement: 4 basins have increased information in the public domain	4 basins with increased information in the public domain  FY17 Achievement: 4 basins have increased information in the public domain	4 basins with increased information in the public domain  FY18 Achievement: 4 basins have increased information in the public domain	5 basins with increased information in the public domain  FY19 Achievement: 5 basins have increased information in the public domain	5 basins with increased information in the public domain
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