Implementation Status & Results
China
Water Conservation Project II (P114138)

Operation Name: Water Conservation Project II (P114138)  Project Stage: Implementation  Seq.No: 4  Status: ARCHIVED  Archive Date: 11-Apr-2014
Country: China  Approval FY: 2012
Product Line: IBRD/IDA  Region: EAST ASIA AND PACIFIC  Lending Instrument: Specific Investment Loan
Implementing Agency(ies):

Key Dates
Board Approval Date 10-May-2012  Original Closing Date 30-Jun-2017  Planned Mid Term Review Date 28-Nov-2014  Last Archived ISR Date 11-Sep-2013
Effectiveness Date 17-Oct-2012  Revised Closing Date 30-Jun-2017  Actual Mid Term Review Date

Project Development Objectives
Project Development Objective (from Project Appraisal Document)
To improve agriculture water management and to increase agriculture water productivity in the project areas

Has the Project Development Objective been changed since Board Approval of the Project?
☐ Yes  ☐ No

Component(s)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Component Cost</th>
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<tbody>
<tr>
<td>Project Management, Implementation Support</td>
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<tr>
<td>Water Works and Water-saving Facilities</td>
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<td>Agricultural Water-saving Measures and Support Services</td>
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<td>Management Measures and Institutional Development</td>
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Overall Ratings

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<td>Progress towards achievement of PDO</td>
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<td>Overall Implementation Progress (IP)</td>
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<td>Overall Risk Rating</td>
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Implementation Status Overview
Project implementation is progressing well, producing substantial impacts on the ground, especially in Hebei and Ningxia where many sub-projects are completed or under way. As of November 2013, the total area equipped with water-saving irrigation facilities reached 13,958 ha. A wide range of agricultural measures such as land leveling, use of balanced fertilizer applications, improved seeds, and returning crop residue to the field, have been successfully undertaken in the project areas as seen in the results framework below. Initial findings of project monitoring in Hebei province showed a significant reduction in evapo-transpiration over completed subproject areas, with calculated crop water productivity...
increasing from 6.5% (melons) to 14% (winter wheat/corn), to over 50% (cotton), leading to a reduction in groundwater overdraft over the project area, and significant increases in farm production and income. Similarly, Ningxia reported very significant increases in yields of different irrigated crops in the project areas, but the reduction in water use has yet to be confirmed. On the institutional front, 50 Water User Associations have been established or improved under the project and are directly managing or contributing to irrigation water management and operations and maintenance of completed lower irrigation systems. Although some of the consolidated data on key outcomes are yet to be verified, the underlying activities are ongoing and should lead to successful achievement of the project development objective.

Locations
No Location data has been entered

Results

<table>
<thead>
<tr>
<th>Project Development Objective Indicators</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
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<tr>
<td>Reduction in consumptive water use of irrigated agriculture (Ningxia) (million m3)</td>
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<td>Cubic Meter(m3)</td>
<td>Value 0.00</td>
<td>5.00</td>
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<td>Reduction in Groundwater overdraft (Hebei) (million m3)</td>
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<td>Value 0.00</td>
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<td>Reduction in consumptive water use of irrigated agriculture (Shanxi) (million m3 of ET)</td>
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<td>Cubic Meter(m3)</td>
<td>Value 0.00</td>
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<td>Increase in agricultural water productivity (Shanxi, Ningxia and Hebei) (kg/m3 of ET)</td>
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<td>Number</td>
<td>Value 1.00</td>
<td>1.00</td>
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<td>Comments</td>
<td>Target for 2013 is 1.05 kg/m3. Results of agricultural water productivity from the client's M&amp;E report cover different crops and need to be converted into weighted average after confirmation during next mission.</td>
<td>Achieved in YR4 and maintained through YR5</td>
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<tr>
<td>Indicator Name</td>
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<td>IO-1.1a Length of main canal lining/dredging (km)</td>
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<td>Kilometers</td>
<td>0.00</td>
<td>66.76</td>
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<td>maintained in YR5</td>
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<td>IO-1.1b Length of main water conveyance pipeline</td>
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<td>Kilometers</td>
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<td>pipeline construction were recently awarded in</td>
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<td>Shanxi.</td>
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<td>Area provided with irrigation and drainage</td>
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<td>Hectare(Ha)</td>
<td>0.00</td>
<td>16565.42</td>
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<td>services (ha)</td>
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<td>Comments</td>
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<td>This indicator measures the incremental equipped</td>
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<td>with water-saving irrigation facilities under the</td>
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<td>Area provided with irrigation and drainage</td>
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<td>services - Improved (ha)</td>
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<td>Sub Type Breakdown</td>
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<td>IO-2.1a Farmland area with land leveling (ha)</td>
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<tr>
<td>Date</td>
<td></td>
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<td>IO-2.1b Farmland area adopting plastic film</td>
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<td>covering (ha)</td>
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<td>target for 2013 is 2700 ha.</td>
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<td>residue to field' practice (ha)</td>
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<td>improved seeds (ha)</td>
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<td>Activity</td>
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<td>IO-2.3 a</td>
<td>Number</td>
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<td>31-Dec-2011</td>
<td><strong>Number</strong> of green houses operational. Target for 2013 is 2,000 ha. Achieved in YR4 and maintained through YR5.</td>
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<td>IO-2.3b</td>
<td>Metric ton</td>
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<td>31-Dec-2011</td>
<td><strong>Total yield of main food crops</strong>. Target for 2013 is 1,000. A number of sub-projects decide to switch from greenhouses to other water-saving farming due to change in market conditions.</td>
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**Operational water user associations created and/or strengthened (number)**

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<th>Activity</th>
<th>Indicator</th>
<th>Value</th>
<th>Date</th>
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<tr>
<td>IO-3.1b</td>
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<td>31-Dec-2011</td>
<td><strong>Number of farmers trained</strong>. Target for 2013 is 30.</td>
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<td>IO-3.2a</td>
<td>Number</td>
<td>0.00</td>
<td>31-Dec-2011</td>
<td><strong>Number of county level groundwater/water resources management plans (strategic)</strong>. TA consultants are mobilized in December 2013, and results not expected till 2014.</td>
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<tr>
<td>IO-3.3a</td>
<td>Text</td>
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<td>31-Dec-2011</td>
<td><strong>Establishment of ET based water rights management system in Guantao County (Hebei)</strong>. TA consultants are mobilized in November, 2013 and preparing inception report.</td>
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**Comments:**
- Main food crops refer to wheat, corn, and paddy. Yield is to be converted to standard crop yield.
### IO-3.3b Establishment of an ET-based Water Rights (entitlement) System & Formulation of a Water Trading Strategy in the Qingtongxia Pilot Area (Ningxia)

<table>
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<th>Text</th>
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<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal quota (entitlement) allocated to county level</td>
<td>31-Dec-2011</td>
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<td>TA consultants are mobilized in November, 2013 and preparing inception report</td>
</tr>
<tr>
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<td>29-Jan-2014</td>
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<td>Water rights management system functional</td>
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<tr>
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<td>30-Jun-2017</td>
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### IO-4 Establishing results-based M&E System

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<td>Functional after YR1 of the project and maintained through closing</td>
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<td>MIS functional</td>
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<td>Functional</td>
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### Direct project beneficiaries

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<tr>
<td>0.00</td>
<td>31-Dec-2011</td>
<td></td>
<td>Exact number of beneficiaries where project activities have been completed is to be confirmed.</td>
</tr>
<tr>
<td>0.00</td>
<td>29-Jan-2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1300000.00</td>
<td>30-Jun-2017</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Female beneficiaries

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00</td>
<td>31-Dec-2011</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.00</td>
<td>29-Jan-2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>624000.00</td>
<td>30-Jun-2017</td>
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<td></td>
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</table>

### Data on Financial Performance (as of 06-Mar-2014)

#### Financial Agreement(s) Key Dates

<table>
<thead>
<tr>
<th>Project</th>
<th>Ln/Cr/Tf</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Original Closing Date</th>
<th>Revised Closing Date</th>
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</thead>
</table>

#### Disbursements (in Millions)

<table>
<thead>
<tr>
<th>Project</th>
<th>Ln/Cr/Tf</th>
<th>Status</th>
<th>Currency</th>
<th>Original</th>
<th>Revised</th>
<th>Cancelled</th>
<th>Disbursed</th>
<th>Undisbursed</th>
<th>% Disbursed</th>
</tr>
</thead>
<tbody>
<tr>
<td>P114138</td>
<td>IBRD-81530</td>
<td>Effective</td>
<td>USD</td>
<td>80.00</td>
<td>80.00</td>
<td>0.00</td>
<td>18.18</td>
<td>61.82</td>
<td>23.00</td>
</tr>
</tbody>
</table>

### Disbursement Graph
Key Decisions Regarding Implementation
A mid-term review (MTR) is scheduled for late 2014, likely with a restructuring to adjust the project composition and implementation arrangements. The next supervision mission is scheduled in May 2014 to review and discuss the initial MTR proposal of the client.

Restructuring History
There has been no restructuring to date.

Related Projects
P145896-Mainstreaming Integrated Water and Environment Management Project