

**Exchange Irrigation Scheme**

Source: IFAD (2017)

**Table 3.1 Conceptual framework**

|  |  |  |
| --- | --- | --- |
| **Variable** | **Definition** | **Type** |
| Smallholder Irrigation Revitalisation Programme (SIRP) | The intervention being implemented to revitalise smallholder irrigation schemes | Independent Variable |
| Exchange Irrigation Scheme (EIS) | The irrigation scheme being targeted by the SIRP intervention | Mediating variable |
| Water use efficiency | The efficiency of water use in the EIS after the implementation of the SIRP intervention | Dependent variable |
| Farm profitability | The economic benefits of agricultural production in the EIS after the implementation of the SIRP intervention | Dependent variable |
| Farmer characteristics | The characteristics of smallholder farmers in the EIS, such as age, education, and experience | Control variable |
| Market conditions | The conditions of the agricultural market, such as prices and demand for crops | Control variable |
| Weather conditions | The weather patterns in the Kwekwe district, such as rainfall and temperature | Control variable |

**Table 3.2 Total number of irrigators per irrigation block in the Exchange Irrigation Scheme**

|  |  |  |  |
| --- | --- | --- | --- |
| **Block Name** | **Number of Irrigators** | | **Total Number** |
| **Males** | **Females** |  |
| Block 1-8 | 214 | 244 | 458 |
| Block B&C | 94 | 97 | 191 |
| Block A&V | 88 | 76 | 164 |
| Block Chomupamba | 88 | 81 | 169 |
| **Total** | **484** | **498** | **982** |
| Source: | Field survey (2022 |  |  |

**Table 3.3 Sample size per irrigation block in the Exchange Irrigation Scheme**

|  |  |  |  |
| --- | --- | --- | --- |
| **Block Name** | **Sample Irrigators** | | **Total Sample irrigators** |
| **Females** | **Males** |  |
| Block 1-8 | 30 | 34 | 64 |
| Block B&C | 11 | 13 | 24 |
| Block A&V | 11 | 12 | 23 |
| Block Chomupamba | 10 | 13 | 23 |
| **Total** | **62** | **72** | **134** |

Source: Field survey (2022)

**Table 3.4 List of stakeholders selected for Focus Group Discussions (FGDs)**

|  |  |
| --- | --- |
| **Category** | **Number** |
| Representatives from the Department of Agricultural, Technical and Extension Services (AGRITEX), which is part of the Ministry of Lands, Agriculture and Rural Resettlement (MoLARR); | 5 |
| The Department of Irrigation (DoI); | 5 |
| The Zimbabwe National Water Authority (ZINWA); | 1 |
| The IFAD; | 1 |
| The Irrigation Management Committee (IMC) | 5 |
| The local leadership (headmen, chiefs, village heads); | 1 |
| The District Administrator (DA) | 1 |
| The Rural District Council (RDC); | 1 |
| The local business community; and | 1 |
| Other stakeholders in the irrigation scheme | 4 |
| **Total** | **25** |