



## July 2020

SDGs:	1 Wearr À: À: À
Countries:	Zambia
Project Codes:	TCP/ZAM/3703
FAO Contribution	USD 400 000
Duration:	25 January 2019 – 24 January 2020
Contact Info:	FAO Representation in Zambia
	FAO-ZM@fao.org

#### **Implementing Partners**

Ministry of Agriculture (MoA), Ministry of Fisheries and Livestock (MoFL) and the Disaster Management and Mitigation Unit.

#### **Beneficiaries**

Small-scale farmers and Government extension officers.

#### **Country Programming Framework (CPF) Outputs**

Country Outcome 1: To sustain increased agricultural production, productivity and value addition of major crops, livestock, forest products and fisheries based on comparative advantage in different agroecological regions in the country; Country Outcome 2: To create and enhance the sustainable management of the existing agricultural related resource base to be able to efficiently support vibrant and resilient agricultural production systems.



#### BACKGROUND

The agriculture sector in Zambia supports the livelihoods of nearly 85 percent of the population, which includes 17 million people located across three agroecological zones. The sector is currently facing an increasing number of hazards, such as recurrent dry spells, floods and pest insurgences, which affect crops and livestock of economic importance. The effects of drought, in particular, are being exacerbated by increased occurrences of El Niño weather patterns. Moreover, drier conditions are likely to lead to increased insurgences of pests, such as the fall armyworm (FAW), and cases of livestock disease.

Prior to the project, the 2018/19 National Contingency Plan, which was jointly developed by the Government, UN agencies and non-governmental organizations, estimated that 609 608 agriculture-dependent households would be affected by extreme weather conditions, with around 280 000 people requiring food assistance. The affected population would also require emergency assistance that enables them to engage in agricultural activities to rebuild their livelihoods. To mitigate the effects of El Niño-induced drought in Zambia, the project sought not only to protect existing livelihood assets, including crops and livestock, against potential threats, but also promote agricultural practices and effective surveillance measures that support production.

#### **I**MPACT

The project was designed to improve livelihoods, enhance food security and increase resilience within Zambian communities that are susceptible to El Niño.

#### ACHIEVEMENT OF RESULTS

# Output 1: Drought-affected communities supported with early maturing and drought tolerant crop inputs

Across targeted communities, 5 935 beneficiaries (2 790 females and 3 145 males) received vegetable seeds (rape, Chinese cabbage, onion and tomato) and 292 beneficiaries (185 females and 107 males) received early maturing maize (Zamseed and Pannar). The number of potential beneficiaries that met the selection criteria greatly exceeded the targeted number under the project, rendering the selection process highly challenging.

Access to water was increased for 36 000 household members and over 100 000 livestock through the construction of 20 boreholes – 17 with hand pumps and three with solar pumps. These water points substantially reduced the work burden of women that were no longer required to travel long distances to access water. Moreover, in seven of the targeted districts, the boreholes facilitated vegetable production during the dry season.

The production capacity and resilience to climate-related shocks were increased for three groups, (i) the Choma tree nursery group, (ii) the Tubeleke women's club and (iii) the villages of Lusitu (one of the driest areas in the country), which were each provided with boreholes, water tanks, sub-immersive water pumps and solar panels.

Finally, Government extension workers were trained on climate smart crop production practices and technologies. Subsequently, 3 415 beneficiaries received training on resilient production methodologies and technologies.

Output 2: Vulnerable agricultural communities receive training and inputs to control crop pests including fall armyworm

Although the planned training of trainers (ToT) for MoA staff, awareness raising and training activities for farmers and procurement of pest control inputs were not undertaken, the project financially supported the response to a FAW outbreak. Using this support, the Government focal point conducted an assessment of the outbreak across four districts in eastern Zambia, providing a clearer picture of the situation and allowing for the formulation of an appropriate response by relevant authorities.



Output 3: Affected agropastoral communities receive inputs and training to manage livestock diseases

A total of 54 Government extension officers received training on livestock disease management, vaccination and treatment. The extension officers then delivered training to 965 farmers. In addition, 80 field livestock and veterinary officers received training on foot-and-mouth disease (FMD), which covered a range of topics, including sample collection, diagnosis, vaccination, epidemiology and field practice.

Highly vulnerable areas and populations were identified as the first recipients of the "livestock pass-on" programme, under which goats, chickens and fish were procured and delivered to 965 beneficiaries throughout the country. All of the goats and chickens were vaccinated and received drug treatments prior to their distribution.

The project also co-financed a disease surveillance and management campaign with the United States Agency for International Development (USAID) and the FAO Subregional Emergency Office for Southern Africa (REOSA). Surveillance activities were performed by 68 officers from the MoFL, representing 45 districts and covering 116 veterinary camps. The surveillance efforts covered 1 589 569 cattle, 945 000 sheep and goats and 373 000 chickens.

Two monitoring missions were undertaken by FAO staff and experts from the MoFL to ensure the implementation of project initiatives. Additionally, bimonthly monitoring visits were performed by MoFL field extension officers.

Output 4: El Niño-induced drought affected agricultural and agropastoral communities supported to receive inputs and training in resilience enhancing cropping practices and technologies

A total of 54 MoA extension officers received training on conservation agriculture. The extension officers, in turn, delivered conservation agriculture training to beneficiary farmers in targeted areas. As highlighted under Output 1, early maturing maize was provided to selected beneficiaries. Bimonthly monitoring of project activities was performed by MoA extension officers through visits to farmers' fields, while two monitoring visits were undertaken by experts from the MoA and FAO staff.

#### MPLEMENTATION OF WORK PLAN

Project activities were implemented within the approved budget, with certain activities not being carried out due to time constraints caused by unforeseen delays. The initial assessment of beneficiaries and identification of their needs were completed on schedule. Following the recruitment of project staff, however, delays in implementation were experienced because of the resignation of a consultant and difficulties in replacing the Government focal point following their departure for another programme. The work plan was adjusted accordingly, with inputs such as early maturing maize, for example, being distributed for the rainy season rather than as an early action activity. Finally, as a result of the Government changing its stance on e-voucher dispersion through the Zambia Integrated Agriculture Management Information System (ZIAMIS), inputs were distributed directly to beneficiaries through Government extension officers.

Risks were effectively managed throughout project implementation, with suitable mitigation measures being adopted where necessary. The availability of inputs on the market was closely monitored, with particular emphasis on the emergence of livestock diseases. Environmental risks were communicated to farmers through training and effectively monitored by extensions workers. The project was also designed with social risks in mind, thus promoting the engagement of women and sensitizing local communities to the risk of women not becoming involved in project interventions.

#### FOLLOW-UP FOR GOVERNMENT ATTENTION

A key area for follow-up action is the performance of an impact assessment to determine the effects of project interventions on the lives of beneficiaries. In addition, efforts to monitor the implementation of the cropping practices introduced, climate smart agricultural approaches and the surveillance of animal diseases need to be continued beyond the project.



### **S**USTAINABILITY

#### 1. Capacity development

The Second National Agricultural Plan (SNAP) promotes a conducive environment for sustainable agriculture and inclusive agriculture development in Zambia. The efforts undertaken during the project specifically addressed Objective 1 (to increase agricultural production and productivity) and Objective 9 (to mainstream environment and climate change in the agriculture sector) of the SNAP. Moreover, the project was implemented through the MoA and MoFL, which work directly with small-scale farmers on the production of crops and livestock. These efforts are expected to continue to strengthen food security and improve livelihoods in the long term. Notably, the expertise developed by Government extension staff will remain in institutional structures and survive beyond the project.

#### 2. Gender equality

The project was carried out in accordance with the FAO Policy on Gender Equality by ensuring equal participation in project activities by men and women through the criteria used in the selection of beneficiaries. Involving female-headed households and women's groups was a priority, as was encouraging the full participation of beneficiaries through the planning of meetings and trainings at convenient times. The distribution of livestock followed a raffle system to ensure equal opportunity for eligible applicants to become project beneficiaries. In addition, the water points established under the project largely reduced the work burden of women.

#### 3. Environmental sustainability

The project promoted resilience-enhancing cropping practices and conservation agriculture, which are expected to support environmental sustainability.



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# 4. Human Rights-based Approach (HRBA) – in particular Right to Food and Decent Work

The project upheld principles of human rights by emphasizing the involvement of all members of target communities, from traditional and civic leaders to the wider population. Additionally, the right to food and decent employment were supported through the delivery of agricultural inputs and capacity development training to beneficiaries.

#### 5. Technological sustainability

Both Government officers and farmers received training on the implementation of highly appropriate technologies and methodologies that support increased agricultural productivity and production. These skills are likely to be further dispersed throughout the country, especially since the Government is in a position to continue pursuing project initiatives without further technical assistance.

#### 6. Economic sustainability

The skills developed by beneficiaries can largely be implemented without accruing additional costs in the future. In addition, water is expected to remain available to beneficiaries at a relatively low cost. No additional financial resources have been allocated to the areas targeted under the project.



#### DOCUMENTS AND OUTREACH PRODUCTS

- Monthly progress reports.
- □ ToT Report for the Ministry of Agriculture Extension Officers.
- □ ToT Report for the Ministry of Fisheries and Livestock Extension Officers.

### Achievement of results - Logical framework

Expected Impact	Improved livelihoods, food security and resilience of agricultural and agropastoral communities in El Niño-prone regions					
	Improved resilience, production and productivity of vulnerable agricultural and agropastoral households affected by El Niño-induced droughts					
	Indicators	Number of hunger months experienced by beneficiary households				
	Baseline	4 months				
	End Target	2 months				
Outcome	<ul> <li>Key achievements:         <ul> <li>The capacity of 108 Government staff was built on resilient agricultural practices and technologies.</li> <li>The capacity of 3 415 vulnerable farmers (1 605 females and 1 810 males) was built on good agricultural practices and technologies.</li> <li>Access was improved to early maturing maize, vegetables and small livestock for targeted farmers (185 females and 107 males to early maturing maize; 2 790 females and 3 145 males to vegetables; and 511 females and 454 males to small livestock).</li> <li>The capacity of 1 708 farmers (905 females and 803 males) was developed in climate smart agriculture and livestock production and disease management.</li> <li>The capacity of 45 government district offices was enhanced in livestock disease surveillance and control.</li> <li>Follow-up:                 <ul> <li>An impact assessment of the inputs on the livelihoods of the beneficiaries (medium term) needs to be conducted.</li> </ul> </li> </ul> </li> </ul>					
	Drought-affect	Drought-affected communities supported with early maturing and drought tolerant crop inputs				
Output 1	Indicators		Target	Achieved		
Baseline		ners that received early maturing and drought tolerant crop inputs.	3 500	Yes (6 026)		
Comments	<ul> <li>Number of farmers that received early maturing and drought tolerant crop inputs. 3 500 Yes (6 026)</li> <li>0</li> <li>Key achievements: <ul> <li>Vegetable seeds were provided to 5 935 beneficiaries (2 790 females and 3 145 males) and early maturing maize varieties to 292 beneficiaries in the targeted communities.</li> <li>Twenty boreholes were drilled (17 were installed with hand pumps, three with water tanks and solar pumps) for the provision of water to over 36 000 household members and over 100 000 livestock, as well as for vegetable production during the dry season in seven targeted districts. The water points provided by the project notably reduced the work burden of women who no longer needed to travel long distances to draw water.</li> <li>The project increased the production capacity of three groups (who were each supplied with boreholes, complete with water tanks, sub-immersive water pumps and solar panels) and built their resilience to climate change shocks, especially those related to inadequate water supply.</li> <li>The Choma tree nursery group (consisting of 13 males and 7 females) now has the potential to plant and supply 150 000 tree seedlings a season within a province that has a number of tree planting/climate change adaptation and mitigation programmes. Their capacity was once 100 000 seedlings, with an effective capacity of 30 000 due to plants drying out and an inadequate supply of water.</li> <li>The borehole supplied in Lusitu (one of the driest points in Zambia) will service 27 villages and approximately 150 households. The borehole and dip tank will service 46 000 cattle.</li> <li>The capacity of government extension workers was strengthened on climate smart crop production practices and technologies.</li> </ul> </li> <li>Challenges:</li> <li>Early action activities could not be implemented as the project started three months after the planting season had commenced, thus making it difficult to procure field crop seeds for planting at the start of the project.</li> <li>Difficul</li></ul>					

Activity 1.1       Activity 1.1         Activity 1.1       Activity 1.1         Activity 1.1       Comments         Activity 1.2		ation and according of how fisionics lists in terms districts and we interest	
Activity 1.1       A total of 3 500 beneficiaries (1 879 males and 1 620 females) from 13 districts w and their data was compiled. The breakdown of beneficiaries was as follows: <ul> <li>Central Province, 235 beneficiaries (Nimba 235);</li> <li>Lusaka Province, 245 beneficiaries (Kaungula 300, Monze 300, Namwala Sinazongwe 300); and</li> <li>Western Province, 980 beneficiaries (Kaungula 300, Monze 300, Namwala Sinazongwe 300); and</li> <li>Western Province, 980 beneficiaries (Mulobezi 325, Mwandi 325 and Sesheke The selection of beneficiaries on ZIAMIS may need to be revisited in the future. Th undertaken as planned because the Government had decided to review the e-vo during the year, reducing the level of farmers' access to the e-voucher system to its previous level.         Procurement of inputs       A variety of vegetable seeds and early maturing maize evere procured. The inputs rape (English giant and rampart), Chinese cabbage (grant and muchil), onin (r to tomato (tengeru) and early maturing maize (Zamseed and Pannar). The districts o Sesheke and Namwala were not included in the first round of procurement but le districts. Beyond the project, an impact assessment of the interventions needs to be carrie to determine how they affected the livelihoods of beneficiaries.         Distribution of inputs       All inputs were distributed to beneficiaries wind direct distribution for in inputs.         Achieved       Partially         All inputs were distributed to beneficiaries via direct distribution through Govern officer since the Government had decided to review the e-voucher system. The vegetable seed (20 g) and maize (10 kg and 5 kg) packages delivered and the num boreholes established, by district, are described below. Overal, 5 835 vegetab</li></ul>			
Activity 1.2       Achieved       Yes         Activity 1.2       A variety of vegetable seeds and early maturing maize were procured. The inputs rape (English giant and rampart), Chinese cabbage (grant and muchili), onion (retomato (tengeru) and early maturing maize (Zamseed and Pannar). The districts (Sesheke and Namwala were not included in the first round of procurement but la need for inputs. This resulted in a later round of procurement and delivery of inputs. This resulted in a later round of procurement and delivery of inputs. This resulted in a later round of procurement and delivery of inputs. The districts (Sesheke and Namwala were not included in the first round of procurement but la need for inputs. This resulted the livelihoods of beneficiaries.         Distribution of inputs through e-voucher for formally sourced inputs and direct distribution for in inputs.         Achieved       Partially         Achieved       Partially         All inputs were distributed to beneficiaries via direct distribution through Govern officers since the Government had decided to review the e-voucher system. The vegetable seed (So g) and maize (10 kg and 5 kg) packages delivered and the num boreholes established, by district, are described below. Overall, 5 835 vegetable seed (So g) and maize (10 kg and 5 kg) packages delivered and the num boreholes established, by district, are described below. Overall, 5 835 vegetable seed (So g) and maize (10 kg and 5 kg) packages, three boreholes - Chisambai: 260 vegetable seed packages, two boreholes - Chisambai: 260 vegetable seed packages, two boreholes - Chisambai: 260 vegetable seed packages, two boreholes - Chisambai: 260 vegetable seed packages, 60 maize packages, three boreholes - Chongwe: 480 vegetable seed packages, one borehole - Chongwe: 480 vegetable seed packages, th	Activity 1.1	A total of 3 500 beneficiaries (1 879 males and 1 620 females) from and their data was compiled. The breakdown of beneficiaries was - Central Province, 618 beneficiaries (Chibombo 240, Chisamba 1 - Eastern Province, 235 beneficiaries (Nyimba 235); - Lusaka Province, 462 beneficiaries (Chongwe 235 and Chirundu - Southern Province, 1 200 beneficiaries (Kazungula 300, Monze Sinazongwe 300); and - Western Province, 980 beneficiaries (Mulobezi 325, Mwandi 32 The selection of beneficiaries was challenging as the number of per criteria exceeded the targeted number proposed during project der registration of beneficiaries on ZIAMIS may need to be revisited in undertaken as planned because the Government had decided to reduring the year, reducing the level of farmers' access to the e-voue	as follows: .30 and Mumbwa 248); .227); 300, Namwala 300 and 25 and Sesheke 330). .ople meeting the selection esign. Additionally, the the future. This could not be eview the e-voucher system
Activity 1.2       A variety of vegetable seeds and early maturing maize were procured. The inputs rape (English giant and rampart), Chinese cabbage (granat and muchili), onion (retornato (tengeru) and early maturing maize (Zamseed and Pannar). The districts a Sesheke and Namwala were not included in the first round of procurement but la need for inputs. This resulted in a later round of procurement and delivery of inputs districts. Beyond the project, an impact assessment of the interventions needs to be carrie to determine how they affected the livelihoods of beneficiaries.         Distribution of inputs through e-voucher for formally sourced inputs and direct distribution for in inputs.         Achieved       Partially         All inputs were distributed to beneficiaries via direct distribution through Govern officers since the Government had decided to review the e-voucher system. The vegetable seed (50 g) and maize (10 kg and 5 kg) packages delivered and the num boreholes established, by district, are described below. Overall, 5 835 vegetable seed 292 maize packages and 20 boreholes were provided.         Central Province       – Chibombo: 468 vegetable seed packages, two boreholes         - Chibombo: 456 vegetable seed packages, env boreholes       – Chirundu: 456 vegetable seed packages, one borehole         - Chirundu: 456 vegetable seed packages, one borehole       – Chirundu: 456 vegetable seed packages, three boreholes         - Mumbwa: 496 vegetable seed packages, three boreholes       – Morense: 384 vegetable seed packages, three boreholes         - Nyimba: 240 vegetable seed packages, three boreholes       – Namwala: 584 vegetable seed packages, three boreholes         - Namw	Pr	ment of inputs	
Activity 1.2       rape (English giant and rampart), Chinese cabbage (granat and muchili), onion (retornation of the comparison of the	A	d Yes	
Achieved       Partially         Achieved       Partially         All inputs were distributed to beneficiaries via direct distribution through Govern officers since the Government had decided to review the e-voucher system. The vegetable seed (50 g) and maize (10 kg and 5 kg) packages delivered and the num boreholes established, by district, are described below. Overall, 5 835 vegetable see 292 maize packages and 20 boreholes were provided. Central Province         -       Chibombo: 468 vegetable seed packages, two boreholes         -       Chibombo: 468 vegetable seed packages         -       Mumbwa: 496 vegetable seed packages         -       Mumbwa: 496 vegetable seed packages         -       Nyimba: 240 vegetable seed packages, 60 maize packages, three boreholes         Lusaka Province       -         -       Chirundu: 456 vegetable seed packages, one borehole         -       Chirundu: 456 vegetable seed packages, one borehole         -       Chirundu: 456 vegetable seed packages, bree boreholes         -       Southern Province         -       Kazungula: 1 628 vegetable seed packages, three boreholes         -       Nonze: 3 boreholes.         -       Namwala: 584 vegetable seed packages, three boreholes         -       Sinazongwe: 584 vegetable seed packages, three boreholes         -       Sinazongwe: 584 vegetable seed packages, three boreholes         -	-	nts rape (English giant and rampart), Chinese cabbage (granat and mu tomato (tengeru) and early maturing maize (Zamseed and Pannar) Sesheke and Namwala were not included in the first round of proc need for inputs. This resulted in a later round of procurement and districts. Beyond the project, an impact assessment of the interventions need	chili), onion (red creole), . The districts of Mulobezi, urement but later expressed a delivery of inputs to the
Achieved       Partially         All inputs were distributed to beneficiaries via direct distribution through Govern officers since the Government had decided to review the e-voucher system. The vegetable seed (50 g) and maize (10 kg and 5 kg) packages delivered and the num boreholes established, by district, are described below. Overall, 5 835 vegetable : 292 maize packages and 20 boreholes were provided.         Central Province       - Chibombo: 468 vegetable seed packages, two boreholes         - Chibombo: 468 vegetable seed packages       - Mumbwa: 496 vegetable seed packages         - Mumbwa: 496 vegetable seed packages       - Mumbwa: 496 vegetable seed packages         - Nyimba: 240 vegetable seed packages, 60 maize packages, three boreholes       - Chirundu: 456 vegetable seed packages, one borehole         - Chirundu: 456 vegetable seed packages, one borehole       - Chongwe: 480 vegetable seed packages, one borehole         - Chirundu: 456 vegetable seed packages, one borehole       - Chongwe: 480 vegetable seed packages, one borehole         - Chirundu: 456 vegetable seed packages, one borehole       - Chongwe: 480 vegetable seed packages, one borehole         - Namwala: 1628 vegetable seed packages, three boreholes       - Monze: 3 boreholes.         - Namwala: 584 vegetable seed packages, three boreholes       - Sinazongwe: 584 vegetable seed packages, three boreholes         - Sinazongwe: 584 vegetable seed packages, three boreholes       - Sinazongwe: 584 vegetable seed packages, three boreholes	Di	tion of inputs through e-voucher for formally sourced inputs and direct dis	tribution for informally sourced
<ul> <li>Sesheke: 179 vegetable seed packages</li> </ul>	Activity 1.3	All inputs were distributed to beneficiaries via direct distribution the officers since the Government had decided to review the e-vouched vegetable seed (50 g) and maize (10 kg and 5 kg) packages delivered boreholes established, by district, are described below. Overall, 5 to 292 maize packages and 20 boreholes were provided.         Central Province         – Chibombo: 468 vegetable seed packages, two boreholes         – Chibombo: 469 vegetable seed packages, two boreholes         – Chibombo: 468 vegetable seed packages         – Mumbwa: 260 vegetable seed packages         – Mumbwa: 496 vegetable seed packages, 60 maize packages, three         Lusaka Province         – Chirundu: 456 vegetable seed packages, one borehole         – Chongwe: 480 vegetable seed packages         Southern Province         – Kazungula: 1 628 vegetable seed packages, three boreholes         – Monze: 3 boreholes.         – Namwala: 584 vegetable seed packages, three boreholes         – Sinazongwe: 584 vegetable seed packages, three boreholes         Western Province         – Mulobezi: 460 vegetable seed packages         – Mulobezi: 460 vegetable seed packages         – Mulobezi: 222 maize packages (200 x 5 kg and 32 x 10 kg)         – S	er system. The number of ed and the number of 835 vegetable seed packages, ee boreholes
Activity 1.4       The decision to reduce farmers' access to inputs via the e-voucher system affected to register new beneficiaries and utilize the platform as a means of delivering inplase mentioned above, the main area for follow-up action is the performance of an assessment of the interventions on the livelihoods of beneficiaries.         Activity 1.4       Develop and sign letter of agreement with MoA for implementation of crop related project activities.         Given the delays that emanated from the departure of the Government focal point was made to fund activities directly from the FAO Country Office.	Activity 1.4	to register new beneficiaries and utilize the platform as a means of As mentioned above, the main area for follow-up action is the per- assessment of the interventions on the livelihoods of beneficiaries and sign letter of agreement with MoA for implementation of crop related No Given the delays that emanated from the departure of the Govern	f delivering inputs. formance of an impact d project activities

	Training farme	ers in crop production practices by MoA and input supply companies			
	Achieved	Yes			
Activity 1.5	ctivity 1.5 Comments A total of 1 708 farmers were trained in climate smart crop production practices by Modern extension staff. Trainings were conducted for two to three days. Practical demonstration conservation agriculture and making vegetable beds were delivered. The payment logist the facilitation of the training proved more challenging than anticipated. Beyond the project, efforts to verify that farmers are implementing the cropping practite technologies introduced should be conducted.				
	Monitoring of	the use of inputs in target districts by FAO and MoA staff			
	Achieved	Yes			
Activity 1.6	Comments	MoA field extension staff were supported with operational funds to mor beneficiaries. Monitoring reports and project activity reports were both and December 2019.			
	Impact assess	ment of the inputs on livelihoods of the beneficiaries			
	Achieved	No			
Activity 1.7	Comments	An impact assessment still needs to be performed by MoA staff as a follo project. Since the early action activities could not be carried due to the p planting season had already commenced, project implementation was d impact assessment could not be carried out.	roject starti	ng after the	
	Vulnerable ag	- ricultural communities receive training and inputs to control crop pests inc	luding fall ar	myworm	
Output 2	Indicators		Target	Achieved	
	Number of far	mers that received training/inputs to control crop pests including FAW.	6 000	Partially	
Baseline	0				
Comments		ective was achieved through the delivery of training of trainers for Governn sing organic materials.	nent officers	on crop	
	Organize a To	T training and planning workshop with MoA staff from the identified distric	ts and othe	stakeholders	
Activity 2.1	Achieved	No			
	Comments	Due to the delayed start of the project, the activity was not carried out.			
	Undertake tra	ining and awareness creation among farmers for control of FAW			
Activity 2.2	Achieved	No			
	Comments	Due to the delayed start of the project, the activity was not carried out.			
	Procurement	of pheromone traps, pesticides and distribution to farmers in the target loo	ations		
Activity 2.3	Achieved	No			
	Comments	The activity was not completed due to time constraints.			
	Monitoring of	the intervention progress			
	Achieved	Partially			
Activity 2.4	Comments	The activity was not completed due to time constraints. However, when reported, the project provided financial support to the Government foca assessment of the FAW situation across four districts in the eastern part undertaken. The assessment provided a clearer picture of the African FA informed relevant authorities about the extent of the outbreak, allowing	l point so th of Zambia c W outbreak	at an ould be and	

	Affected agropastoral communities receive inputs and training to manage livestock diseases				
Output 3	Indicators		Target	Achieved	
	Number of pas livestock disea	storal community members that received inputs/training to manage uses.	1 000	Yes (1 240)	
Baseline	0				
Comments	<ul> <li>Key achievements:</li> <li>Training on livestock disease management was delivered to 54 government extension officers (45 male, 9 female).</li> <li>Extension officers trained 965 farmers on livestock production and disease management.</li> <li>Small livestock and fingerlings were provided to farmers.</li> <li>Disease surveillance and vaccination of livestock was performed by Government extension officers through the MoFL.</li> <li>Challenges: <ul> <li>An outbreak of Newcastle Disease in chickens resulted in delays in their procurement for beneficiaries.</li> <li>Follow-up action: <ul> <li>Continued efforts need to be undertaken to monitor and manage livestock diseases in the target districts</li> </ul> </li> </ul></li></ul>				
	Organize a ToT and planning workshop for Ministry of Fisheries and Livestock (MoFL) that will undertake awareness creation of livestock disease management, vaccinations and treatments           Achieved         Yes				
Activity 3.1	ActivitiesA total of 54 extension officers (45 male, 9 female) from the MoFL were trained on livestock disease management, vaccination and treatment. In addition, 80 field livestock and veterinary officers and assistants (63 male and 17 female) were trained on and sensitized to FMD. The FMD training was the first of its kind, covering various topics, including an introduction to FMD, FMD 				

	Identify high v	ulnerable areas and vulnerable populations to be supported
	Achieved	Yes
Activity 3.2	Comments	Yes         A total of 13 districts in five provinces were identified as highly vulnerable areas, while         965 beneficiaries (511 females and 454 males) were identified as first recipients of the livestock         pass-on programme within the 13 districts. The procurement and distribution of livestock inputs         are described below.         Central Province         - Chibombo: 47 goats         - Chisamba: 26 goats         - Mumbwa: 50 goats         Eastern Province         - Nyimba: 47 goats, 150 chickens         Lusak Province         - Chirundu: 91 goats, 208 chickens         - Chongwe: 48 goats, 240 chickens         Southern Province         - Kazungula: 146 chickens         - Monze: 146 chickens         - Sinazongwe: 146 chickens         - Mwandi: 55 000 fish         - Sesheke: 120 goats         - Mwandi: 55 000 fish         - Sesheke: 120 goats         The vulnerable population comprised a large number of individuals. It was therefore difficult to select only 1 000 beneficiaries, as many of those not chosen also met the selection criteria. An unexpected challenge in procurement was faced due to an outbreak of Newcastle Disease in chickens.         In the future, efforts should be undertaken to monitor livestock production and the management of farmers.
	Procurement	and prepositioning of vaccines and drugs
	Achieved	Yes
Activity 3.3	Comments	Vaccines and drugs were provided for all the procured chickens and goats prior to their distribution to beneficiaries.
	Signing of LoA	with MoFL for implementation of activities
Activity 3.4	Achieved	No
	Comments	Direct payments through the FAO Country Office were used.
	Launch of live	stock disease surveillance and management campaign
	Achieved	Yes
Activity 3.5	Comments	The project was used to co-finance disease surveillance activities in July–August 2019, with support from USAID through REOSA. The final campaign was successfully conducted in January 2020. A total of 68 officers from the MoFL were engaged to participate in the surveillance activities. Participants came from 45 districts, covering 116 veterinary camps. The livestock population in the camps covered by this activity was estimated at 1 589 569 cattle, 945 000 sheep and goats and 373 000 chickens. Beyond project closure, disease surveillance measures need to be continuously monitored through reports and impact assessments.
	Monitoring of	implementation by FAO and MoFL staff
Activity 3.6	Achieved Comments	Yes Two missions were carried out by a team of experts from the MoFL headquarters, together with FAO staff, covering all the targeted districts. Bimonthly monitoring visits were carried out by MoFL field extension officers. This initiative is expected to be supported by an impact assessment of the project beyond its closure.

El Niño-induced drought affected agricultural and agropastoral communities supported to receive inputs and training in resilience enhancing cropping practices and technologies				
Indicators		Target	Achieved	
Number of fa	rmers trained in resilience enhancing cropping practices and technologies.	6 000	Partially (1 708)	
0				
turn, trained training, whic It is recomme future. Additi	farmers in conservation agriculture. The attendance of farmers was affected h was conducted during the peak period of the farming season (i.e. Novemb ended that an assessment of farmers practicing conservation agriculture be c onally, efforts to provide training for farmers in resilience-enhancing croppin	l by the tim per). conducted i	ing of the n the	
		n resilience	enhancing	
Achieved	Partially			
Comments	agriculture. Training in conservation agriculture was then delivered to be areas. Future efforts should focus on monitoring the activities of trained farmer.	neficiaries i	n targeted	
Durant	· · · · · · · · · · · · · · · · · · ·			
Comments	Early maturing maize was procured for beneficiaries in two districts, Nyimba and Mwandi. A			
Distribution o		·		
Achieved	Yes			
Comments	Nyimba. The distribution of seeds to beneficiaries was delayed by the clear specifications. Beyond the project, an assessment of the performance of maize in the fie	arance of so	eed	
Enhancing ZIA		irchase of t	oulk SMS	
Achieved	No			
Comments	This activity was not carried out due to time constraints.			
Monitoring of Achieved Comments	Yes Bimonthly monitoring visits to farmers' fields were conducted by MoA ex			
	training in res Indicators Number of fa O The capacity of turn, trained training, which It is recommend future. Additi technologies Training and of approaches in Achieved Comments Distribution of Achieved Comments Distribution of Achieved Comments Distribution of Achieved Comments Distribution of Achieved Comments Distribution of Achieved Comments Monitoring of Achieved	training in resilience enhancing cropping practices and technologiesIndicatorsNumber of farmers trained in resilience enhancing cropping practices and technologies.OThe capacity of Government extension officers was built in conservation agriculture. The turn, trained farmers in conservation agriculture. The attendance of farmers was affected training, which was conducted during the peak period of the farming season (i.e. Novemb It is recommended that an assessment of farmers practicing conservation agriculture be of future. Additionally, efforts to provide training for farmers in resilience-enhancing croppin technologies should be prioritized.Training and creation of awareness among smallholder farmers in drought prone areas or approaches including conservation agricultureAchievedPartiallyA total of 54 extension officers (45 male, 9 female) from the MoA were tr agriculture. Training in conservation agriculture was then delivered to be areas. Future efforts should focus on monitoring the activities of trained farmer training on resilience-enhancing cropping approaches and technologies.Procurement of inputs for climate smart agriculture practices training AchievedYesCommentsEarly maturing maize was procured for beneficiaries in two districts, Nyim total of 92 ten-kilograms bags and 200 five-kilogram bags of maize seed v Distribution of CSA inputs to farmersAchievedYesCommentsEarly maturing maize was procured for beneficiaries was delayed by the clear specifica	training in resilience enhancing cropping practices and technologies       Target         Indicators       6 000         0       6 000         The capacity of Government extension officers was built in conservation agriculture. The extension of turn, trained farmers in conservation agriculture. The attendance of farmers was affected by the tim training, which was conducted during the peak period of the farming season (i.e. November).       6 000         It is recommended that an assessment of farmers practicing conservation agriculture be conducted i future. Additionally, efforts to provide training for farmers in resilience-enhancing cropping practices technologies should be prioritized.       Training and creation of awareness among smallholder farmers in drought prone areas on resilience approaches including conservation agriculture         Achieved       Partially       A total of 54 extension officers (45 male, 9 female) from the MoA were trained in co agriculture. Training in conservation agriculture was then delivered to beneficiaries i areas.         Proturement of Inputs for climate smart agriculture practices training       Achieved         Yes       Yes         Comments       Early maturing maize was procured for beneficiaries in two districts, Nyimba and Mv total of 92 ten-kilograms bags and 200 five-kilogram bags of maize seed were procure         Distribution of CSA inputs to farmers       A total of seeds to beneficiaries was delayed by the clearance of se specifications.         Beyond the project, an assessment of the performance of maize in the fields of beneficiaries was delayed by the clearance of se specific	

Partnerships and Outreach For more information, please contact: <u>Reporting@fao.org</u>

Food and Agriculture Organization of the United Nations Viale delle Terme di Caracalla 00153 Rome, Italy