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Structural Damage Assessment by Cyclone Sagar

Introduction

A team of experts from the Somaliland Ministry of Agriculture and Development, led by Somaliland Minister of Agriculture and Development, Mr. Ahmed Mumin Seed, conducted an assessment to evaluate the loss of life and resources caused by Cyclonic Storm Sagar which was the strongest tropical cyclone to ever make landfall in the recorded history of Somaliland on 18-19 May - 2018, particularly in the area of irrigated farms of Awdal and Seel regions.

The main aim of the evaluation was to address the impact of the cyclone Sagar on the agricultural sector, particularly in the areas of irrigated farms of Awdal and Seel regions.

Estimated loss of life and Resources

Districts of Awdal and Seel regions	Total number of irrigated farms wiped out	Total number of irrigated farms damaged	Total number of shallow wells destroyed	Total number of Canals destroyed in meters	Sprayer devices
Baki	675	400	1075	3000	
Lughaya	793	487	1280	2000	
Gerbodadar	204	171	375	2000	
Total	1672	1058	2730	7000	

Districts of Awdal and Selel regions	Total number of engines wiped out (Pcs)	Total numbers of pipes wiped out (m)	Total numbers of people dead	Total numbers of people injured
Baki	650	1950	4	3
Lughaya	780	2340	2	2
Garbodadar	290	870	32	2
Total	1720	5160	38	7

Total numbers of irrigated farms of Awdal and Selel regions

Total numbers of irrigated farms	irrigated farms wiped out by Tropical Cylone Sagar	irrigated farms damaged by Tropical Cylone Sagar
2,730	1,672	1,058

Evaluation of total number of devastations and damages is as follows:

- 61 % of irrigated farms in those regions were destroyed
- 39% of irrigated farms were damaged

The crops grown in those areas mentioned above were as follows:

1. Fruit Trees

- Lemon
- Orange
- Guava
- Mango
- Dates

2. Vegetables

- Water Melon
- Muskmelon
- Tomato
- Cabbage
- Hotpaper (chilli)

3. Cereals and legumes

- Maize (Corn)
- Lentils
- Mungbean

4. The loss of equipment and services were as follows:

- Canal for irrigated farms
- Shallow wells
- Water Pumps
- Pipes
- Pesticide spraying devices.

The Districts and villages evaluated were as follows: -

1. Awdal Region

- Baki District
- Lughaya

2. Selel Region

- Garbo dadar

1. AWDAL region

• Baki District

Ruqi			
1.	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	250	169	81
Baki			
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	350	228	122
Xeego			
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	50	13	37
Xamarta			
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	115	80	35
Xoorey			
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	240	165	75
CarroWeyne			
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	70	20	50
Total	1.075	675	400

- **Awdal region**
- **District Lughaya**

	Tuurka		
1.	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	500	100	400
2.	Balleyga		
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	400	400	00
3.	Waraabedareerey		
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	200	143	57
4.	Hul-xudhuunle		
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	180	150	30
Total	1,280	793	487

- **Selel Region**
- **Garbo-dadar district**

1.		QudhaanjaaleGalbeed	
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	70	33	37
2.		Qudhaanjaale Bari	
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	50	27	23
3.		Garbo	
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	50	27	23
4.		Habar dugaag	
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	165	95	70
5.		Damasha	
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	10	7	3
6.		Gol Ceydheed	
	Total Number of irrigated farms	irrigated farms wiped out by Tropical Cyclone Sagar	irrigated farms damaged by Tropical Cyclone Sagar
	30	15	15
Total	375	204	171

Solution

It is highly recommended for UN and INGO's and alike to carry out the following actions in order to recover by the communities concerned from the damages caused by the Tropical Cyclone Sagar:

- To repair the shallow wells damaged by the Tropical Cyclone Sagar:
- To provide water pumps and pipes to use for their farms in order to recover from the effects of the storm and also to save crops endured in the field.
- To reconstruct canals damaged by the Tropical Cyclone Sagar:
- To provide seeds and free tractor hours to recover from the damages of the storm.
- To Provide adequate fuel for the affected farmers for at least three months to recover from the damages of the storm.
- Any other assistance provided to the affected farmers in those areas damaged by the Tropical Cyclone Sagar will be highly appreciated.

Conclusion

There were people who have no farms, but make a living from other farms throughout the region their number is 127 families. These people were not included in the Structural Damage Assessment because they had no farms. They are the people who have the greatest difficulties, so we advise them to be given food and other assistance including to that of are stocking to save their lives.

The MOAD Team led by Mr. Ahmed Mumin Seed, Minister of Agriculture Development, were as follows:

1. **Mohamed Dahir Warsame (Senior Agronomist).**
2. **Sa'ad Musa Abdi (Communication and Media Director)**
3. **Abdirahman Ibrahim Abdillahi (Senior Agronomist and Researcher).**
4. **Amina Hassan and the Extension and Research officer.**