SOLOMON ISLANDS

Livelihood Committee Initial estimates All information needs to be verified and may change Date released: 28 December 2016





Geographic impact

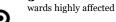
An undersea earthquake of magnitude 7.8 occurred at 4:39 am on Friday, 9 December 2016. 62km west southwest of Kirakira. Makira Province Solomon Islands

Following this earthquake, a tsunami warning was issued for Makira and Temotu, and a tsunami watch for Malaita. Guadalcanal. Renbel and Isabel was put in place.



Geographical profile

Makira Island main area of impact



Broad ridges, stable/ unstable slopes, narrow ridges, and vallevs: narrow floodplains and bouldery terraces



2065 households affected



10325 people affected



4,972 people in need of assistance



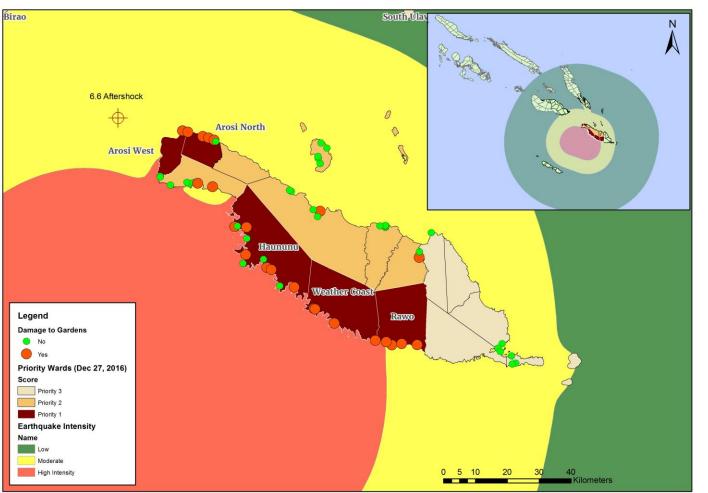
farming and livestock raising

Subsistence

are the dominant livelihoods



Fishing is a key economic activity



LIKELY FOOD SECURITY & LIVELIHOODS IMPACT

Priority 1 (high food security impact)

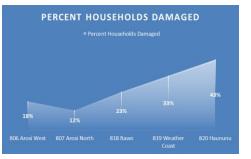
People engaged in subsistence farming and those not growing anything in the three (3) highly affected (geo-impact zone 1) wards in the island of Makira. These people are also assumed to be engaged in subsistence fishing.



security impact) People engaged in subsistence farming and those not growing anything in the eight (8) affected (geoimpact zone 2) wards in the island of Makira. These people are also assumed to be engaged

in subsistence fishing.





OVERVIEW

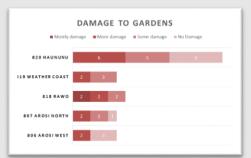


Initial Damage Assessment\ (Livelihoods)

Initial Damage Assessment : Quickly, after the initial earthquake event, the NDMO dispatched field teams to complete an initial damage assessment (IDA) survey. On December 22nd results of the multisector rapid assessment were released to the sectoral committees engaged in disaster response, including the Livelihoods Committee. Based on the results of the IDA, the initial 72 hours assessment has been updated to reflect the new information.

Priority 1 Wards increase to five in total. Rawo, Haununu, the Weather Coast, as well as Arosi North and West show damages to food and livelihoods. Salt water intrusion, land slippages and locations on sandy loam soil have led to extensive garden damages.

Garden damage reported in 29 villages across the 5 affected Wards.



Food Access and Availability is strained. Between damage to subsistence gardens, as well as availability in shops and markets reported in the IDA, some villages report supplies will dwindle after a week if things have not stabilized.







B18 BAWO

819 WEATHER COAST

806 AROSI WEST

807 AROSI NORTH

Detailed Sectoral Assessment by the Livelihoods Committee

Detailed Sectoral Assessment (DSA): After the 72 hour assessment work through, and during the initial return of the IDA finding, the Solomon Islands Livelihoods Committee chaired by the Ministry of Agriculture, began intensive preparations for a Detailed Sectoral Assessment.

The Livelihoods Committee finalized the detailed assessment questionnaire, and this has been translated into Kobo Toolbox. FAO has kindly lent the committee 9 tablets to conduct the detailed assessment, complemented by three additional tablets from Oxfam. Oxfam will generously support the DSA with additional funding for logistics and planning.

The regional Pacific Food Security Cluster has assisted the Livelihoods Committee in this process, including advising on the survey design, implementing it in Kobo, and training extension officers in assessment survey deployment.

After much planning, and with the budget requirements starting to become clear, the Livelihoods Committee is planning on dispatching teams of extension officers and NGO partners to Makira during the first week of January.

The Livelihoods Committee DSA is proposed to be a household level survey which would sample 300 HHs in the Priority 1 wards. Although the IDA conducted by the NDMO has been extremely helpful in determining needs of affected people, the DSA will drill down into how the earthquake has affected food security and livelihoods, and allow for better targeting of affected people and more efficient allocation of valuable resources to do so.

The Detailed Sectoral Assessment will help the Livelihoods Committee collect additional and more in-depth sectoral information than the IDA.

Subsistence agriculture, cash cropping, livestock, agroindustry, fishing and details about wage-based industries and how they were affected will captured.

ADDITIONAL INFORMATION





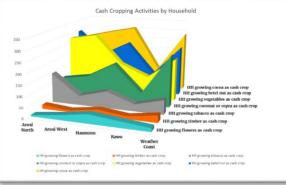
Livelihood profile

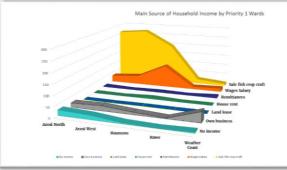
Livelihoods: The main livelihood activities in the Makira Province are mostly subsistence farming and small livestock raising. Fishing is done for both home consumption and sales to market. Small businesses include homestay and canteens. Timber milling activities are also practiced in the area.

Agriculture: The major agricultural activities are associated with cocoa and coconut plantation and processing units. Trading of cocoa and copra is also a major activity.

Fishing: Fishing is done all year round. People engaged in it both for home consumption and sales to market. Among the main marine produce harvested all year round is the trochus shell.\

2009 Census Information (Income/Livelihoods)





ASSUMPTIONS

Geographic impact: The impact zones were calculated using the Shakemap downloaded from the United States Geological Society (USGS) website. From the original 8 categories in the Shakemap, the impact zones were adjusted to three classes with 3 as the zone of highest impact.

The impact zones were not categorized into 4 classes (with 4 as the area of severest impact) as normally observed in past analysis since making four categories would show that no place in the island of Makira would have been directly hit by the earthquake.

Eventually, in consultation with the Committee members, the generated impact zones were further adjusted. Zone 3 was retained but Zone 2 was subdivided into two representing Zones 2 and 1.

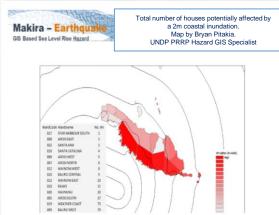
Affected population: Population data were derived from the 2009 Census of the country. The census data was part of the datasets sourced from the PopGIS database. The affected population was computed using three food security and vulnerability indicators, namely type of housing materials, subsistence cultivation and source of drinking water. These indicators were selected from a total list of 11 indicators by a pool of provincial agriculture extension officers from the nine (9) provinces in the country. Total numbers of Priority 1 populations were derived using IDA results of villages showing damage to gardens and other livelihoods.

Priority areas for food assistance/validation: Wards located in impact zone 1 (red on map) were assumed to be heavily affected by the earthquake and were therefore categorized as priority areas for food assistance / field validation. Based on the initial assessment, there are three areas that should be given immediate attention, namely: Weather Coast, Arosi West and Haununu. Based on IDA results, Rawo and Arosi North have been Priority 1 classification.

People in need of food assistance: The population in the priority areas who are subsistence farmers or do not grow food are assumed to be in need of food assistance

Damaged / destroyed houses: Houses in the affected areas are assumed to have been impacted by the earthquake. Damage or destruction would be highest in Impact Zone 3 for houses made up of either makeshift materials or traditional style housing, particularly those that are raised above ground.

Market prices for key commodities: At the moment, there is no available price data for key commodities in the affected areas.





Contact Information

For more information, contact:

LIVELIHOOD COMMITTEE

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STATISTICAL PROFILE – IDA Livelihoods Results from NDMO

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Ward	Village	Estimated total population	Estimated total household	Are food gardens damaged?	Extent of damage?	How long will food supply in the gardens lasts?	What are the food sources after the disaster?	Food supplies available in market outlets?	Is food supply available in shops?	How long will food supply in shop last?	What agriculture enterprizes are affected?	What agriculture facilities are affected?	Are there damages to fisheries centre?	Is there loss or damage to fishing equipment and gear?	What are 3 agriculture and livelihood priority needs
806 Arosi West	Rumahul	320	44	No				Yes	Yes	3 - 4 weeks	None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
806 Arosi West	Bwauraha	540	105	No				Yes	Yes	3 - 4 weeks	None	Cocoa drier	No	No	Food relief Distribution of seedlings Distribution of planting materials
806 Arosi West	Heranigau	600	60	No				Yes	Yes	3 - 4 weeks	None	None	No	No	Distribution of seedlings Distribution of planting materials
806 Arosi West	Hawa'a	151	36	Yes	More damage	3 - 4 weeks	Fish and shells Local Vegetables Fruits/Nuts	No	No		None	Copra drier	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
806 Arosi West	Torowal community	130	30	Yes	More damage	Less than 1 week	Fish and shells Local Vegetables Fruits/Nuts	No	No		None	None	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
807 Arosi North	Ubuna	800	80	Yes	Some damage	More than 1 week	Fish and shells Local Vegetables Others	Yes	Yes	More than 1 week	Coconut Cocoa Piggery	Copra drier Cocoa drier	No	No	Other
807 Arosi North	Tawatana	1200	167	Yes	More damage	1 - 2 weeks	Fish and shells Local Vegetables Fruits/Nuts	Yes	Yes	1 - 2 weeks	None	None	No	Yes	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
807 Arosi North	Maranuu	500	60	Yes	More damage	Less than 1 week	Fish and shells Local Vegetables Fruits/Nuts	Yes	Yes	Less than 1 week	None	Cocca drier	No	Yes	Food relief Distribution of seedlings Distribution of planting materials Distribution of fishing equipements Recommend DSA
807 Arosi North	Heraniau	160	30	Yes	Some damage	Less than 1 week	Fish and shells Local Vegetables Fruits/Nuts Others	No	Yes	Less than 1 week	None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials Distribution of fishing equipements Recommend DSA
807 Arosi North	Heuru	1200	54	No				No	Yes	3 - 4 weeks	None	None	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements Recommend DSA
818 Rawo	Parego	450	76	Yes	Some damage	1 - 2 weeks	Local Vegetables Fruits/Nuts	No	Yes	3 - 4 weeks	None	None	No	No	Other
818 Rawo	Marapul	150	25	Yes	Some damage	3 - 4 weeks	Giant Taro Local Vegetables Fruits/Nuts	No	Yes	3 - 4 weeks	None	None	No	No	Distribution of seedlings Distribution of planting materials
818 Rawo	Maraone	150	29	Yes	More damage	1 - 2 weeks	Local Vegetables Fruits/Nuts	No	No		None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
818 Rawo	Mange	200	32	Yes	Mostly damage	1 - 2 weeks	Fruits/Nuts	No	Yes	1 - 2 weeks	None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
818 Rawo	Waihaga	550	85	Yes	More damage	1 - 2 weeks	Giant Taro Fish and shells Local Vegetables Fruits/Nuts	No	No		Coconut	Copra drier	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
S18 Rawo	Wouwa	370	66	Yes	Mostly damage	Less than 1 week	Fish and shells Local Vegetables Fruits/Nuts	No	No		Coconut	Copra drier	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
819 Weather Coast	Raa	282	32	Yes	Some damage	1 - 2 weeks	Giant Taro Local Vegetables Fruits/Nuts	No	No		Coconut Cocoa	Cocoa drier	No	No	Food relief Other
819 Weather Coast	Anganiwai	200	30	Yes	Some damage	1 - 2 weeks	Giant Taro Fish and shells Local Vegetables Fruits/Nuts	No	No		None	None	No	No	Other
819 Weather Coast	Piruma	370	43	Yes	More damage	3 - 4 weeks	Giant Taro Fish and shells Local Vegetables	No	No		None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
819 Weather Coast	Apurai	350	75	Yes	Some damage	3 - 4 weeks	Giant Taro Local Vegetables	No	No		None	Copra drier	No	No	Recommend DSA
819 Weather Coast	Marunga	502	112	Yes	More damage	3 - 4 weeks	Giant Taro Fish and shells Local Vegetables	No	No		None	None	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
820 Haununu	Waimarega	233	48	Yes	Some damage	1 - 2 weeks	Fish and shells Local Vegetables Fruits/Nuts	Yes	No		None	Copra drier	No	No	Food relief Other
820 Haununu	Hautarohagi village	120	12	Yes	More damage	More than 1 week	Glant Taro	No	No		Coconut Cocoa Piggery	Copra drier Cocoa drier Pig pen	No	No	Food relief Distribution of seedlings Distribution of planting materials
820 Haununu	Marou	250	35	No				No	Yes	3 - 4 weeks	Cocoa	Copra drier	No	Yes	Distribution of planting materials Distribution of fishing equipements
820 Haununu	Tawahinigau village	29	5	Yes	Some damage	Less than 1 week	Glant Taro	No	No		Cocoa	Copra drier Cocoa drier	No	No	Food relief Distribution of seedlings Distribution of planting materials
820 Haununu	Aranihata village	60	5	No				No	No		None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
820 Haununu	Tetere	550	100	Yes	Some damage	3 - 4 weeks	Giant Taro Local Vegetables Fruits/Nuts	Yes	Yes	Less than 1 week	Cocoa	Cocoa drier	No	No	Food relief Distribution of planting materials
820 Haununu	Apaumatawa	52	7	Yes	More damage	1 - 2 weeks	Fish and shells Local Vegetables	No	No		None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
820 Haununu	Mwanihau	100	17	No				No	No		None	None	No	No	Distribution of planting materials
820 Haununu	Waiporia, Tautau	60	15	Yes	Some damage	3 - 4 weeks	Giant Taro Fish and shells Local Vegetables Fruits/Nuts	No	No		None	None	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
820 Haununu	Salvation point	48	7	No				No	No		None	None	No	No	Distribution of planting materials Distribution of fishing equipements
820 Haununu	Hinikawa	165	27	Yes	More damage	3 - 4 weeks	Giant Taro Fruits/Nuts	No	Yes	3 - 4 weeks	None	None	No	No	Distribution of seedlings Distribution of planting materials
820 Haununu	Haura primary school	370	12	No				No	No		None	None	No	No	Distribution of planting materials Distribution of fishing equipements
820 Haununu	Walrosi	300	26	Yes	Some damage	3 - 4 weeks	Glant Taro	No	No		None	None	No	No	Distribution of planting materials
820 Haununu	Parigina	52	10	Yes	More damage	3 - 4 weeks	Glant Taro	No	No		Cocoa	Copra drier Cocoa drier	No	No	Food relief Other
820 Haununu	Aruraha	100	30	Yes	More damage	1 - 2 weeks	Glant Taro	No	No		Coconut Cocoa	Copra drier Cocoa drier	No	No	Food relief Distribution of planting materials
820 Haununu 820 Haununu	Parego Apaoro	360	3 60	No Yes	More damage	3 - 4 weeks	Giant Taro Fish and shells	No No	No No		None None	None Copra drier Cocoa drier	No No	No No	Other Food relief Other
- 820 naululiu	Аравто	360	00	165	wore damage	3 4 Weeks	CHAIRE THEO FORE WIND SERVICE	NO	NO		wone	сорга отне сосов отне?	NO	NO	FOOD (GINE) CHINE

STATISTICAL PROFILE – IDA Livelihoods Results from NDMO

Ward	Village	Estimated total population	Estimated total household	Are food gardens damaged?	Extent of damage?	How long will food supply in the gardens lasts?	What are the food sources after the disaster?	Food supplies available in market outlets?	Is food supply available in shops?	How long will food supply in shop last?	What agriculture enterprizes are affected?	What agriculture facilities are affected?	Are there damages to fisheries centre?	Is there loss or damage to fishing equipment and gear?	What are 3 agriculture and livelihood priority needs
804 Ugi And Pio	Rurungna	50		5 No				Yes	Yes	More than 1 week	None	Copra drier	No	No	Distribution of seedlings Distribution of planting materials
804 Ugi And Pio	Hakanpua	200	2:	9 No				Yes	Yes	1 - 2 weeks	None	None	No	No	Other
804 Ugi And Pio	Suena	556	81	6 No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
804 Ugi And Pio	Hunuta	400	7:	2 No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
804 Ugi And Pio	Alangawla	14		4 No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
804 Ugi And Pio	Pawa secondary school	465	21	6No				Yes	No		None	None	No	No	Distribution of seedlings Distribution of planting materials
805 Arosi South	Anuta	200	4	0No				Yes	Yes	3 - 4 weeks	Others	None	No	No	Distribution of seedlings
805 Arosi South	Waawa	148	19	9 No				Yes	No		Others	None	No	No	Distribution of seedlings Distribution of planting materials
805 Arosi South	Oneibia	300	7(6No				Yes	Yes	More than 1 week	None	None	No	No	Distribution of seedlings
805 Arosi South	Giroia	120		0 Yes	Some damage	1 - 2 weeks	Local Vegetables Fruits/Nuts	No.	No		Cocoa	None	No	No	Food relief
003741031300411	onoid .	110		0,103	Joine damage	I I WEEKS	Escal Vegetasies Traits/Nats	10	110		COCOU	None	110		rood rener
805 Arosi South	Hawaa logging camp	200	2	7Yes	Some damage	3 - 4 weeks	Local Vegetables	Yes	Yes	3 - 4 weeks	None	None	Yes	Yes	Food relief Distribution of planting materials
805 Arosi South	Bia	230	51	0 No				No	Yes	Less than 1 week	Coconut Cocoa	Copra drier	No	No	Distribution of planting materials Other
805 Arosi South	Tarahura'a	250	51	0 No				No	Yes	1 - 2 weeks	None	None	No	No	Other
000 Ai F+	Tawarahaimarae	220		24	Some damage	3 - 4 weeks	046	NI-	V	3 - 4 weeks	Ness	News	Al-		Other
808 Arosi East 809 Bauro West	Manita	450	2.	zites	Some damage	5 - 4 Weeks	Others	INO	res	3 - 4 weeks	None	None	NO .	NO	Other
		450	6	8 NO				res	res			ivone	NO	NO	Other
809 Bauro West	Puira	50	1	2 No				Yes	Yes	3 - 4 weeks	None None	None	No	No	Other
809 Bauro West	Pamua community	650		0 No				Yes .	Yes	3 - 4 weeks		None	No	No	Distribution of planting materials
809 Bauro West	Masidonia Village	1503	224	4No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
809 Bauro West	Wango village	408	81	8 No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
809 Bauro West	Mwaniwaro village	55	3:	2Yes	Some damage	3 - 4 weeks	Fruits/Nuts	Yes	Yes	3 - 4 weeks	None	None	No	No	Distribution of planting materials
809 Bauro West	Kaukauragana	300	41	D No				Yes	Yes	3 - 4 weeks	None	None	No	No	Distribution of seedlings Distribution of planting materials Distribution of fishing equipements
809 Bauro West	Mamaka	56	i !	9Yes	Some damage	More than 1 week	Local Vegetables	Yes	Yes	1 - 2 weeks	None	None	No	No	Other
	Wasu community	120	21	0 No				Yes	Yes	1 - 2 weeks	Cocoa	Cocoa drier	No	No	Other
809 Bauro West	Kakaona village	186	5:	5 No				Yes	Yes	3 - 4 weeks	None	Copra drier	No	No	Other
							Giant Taro Fish and shells Masi Local Vegetables				_				
	Nukukaisi village	3000	301	0 Yes	Some damage	3 - 4 weeks	Fruits/Nuts	Yes	Yes	3 - 4 weeks	Cocoa	Copra drier Cocoa drier	No	No	Food relief Distribution of planting materials
809 Bauro West	Waimasi village	60	21	0No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
	Pogo village	28		6No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other Food relief Distribution of seedlings Distribution of
809 Bauro West	Kaonsugu village	2500		0Yes	More damage	3 - 4 weeks	Local Vegetables	Yes	Yes	3 - 4 weeks	None	None	No	No	planting materials
	Tawapuna village	102		6 No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
	Makirima	150	51	UNO				No	No		None	None	No	No	Other
809 Bauro West	Ago village	35		6No				Yes	Yes	3 - 4 weeks	None	None	No	No	Other
	Kirakira Zone 4	300	61	ONo				Yes	Yes	More than 1 week	None	None	Yes	No	Other
810 Bauro Central	Kirakira Zone 3	300	51	ONo				Yes	Yes	3 - 4 weeks	None	None	Yes	No	Other
	Kirakira Zone 2	500	41	ONo				Yes	Yes	More than 1 week	None	None	No	No	Other
810 Bauro Central	Kirakira Zone 1	300						Yes	Yes	More than 1 week	None	None	Yes	No	Recommend DSA Other
810 Bauro Central	Copeland Huro	500	100	ONo				Yes	Yes	More than 1 week	None	None	Yes	No	Other
810 Bauro Central	Warohinou primary school and community suwasi	400	4	7 Yes	More damage	1 - 2 weeks	Others	Yes	Yes	More than 1 week	None	None	No	No	Food relief Distribution of seedlings Distribution of planting materials
810 Bauro Central	Nawote community	76	10	6No				Yes	Yes	More than 1 week	None	None	No	No	Other
	Nakume Village	19		8 No				Yes	Yes	3 - 4 weeks	None	None	No	No	Distribution of planting materials