



WOTJE ATOLL 2017

DEMOGRAPHICS:

79 HH Surveyed (517 individual in total household surveyed)

	Of a total of 79 household	% of demographic group
Total number of females	31	39
Total number of males	48	61

Groups: Total number of residents in 79 households

Total number of elder	28
Total number of middle	83
Total number of adult	132
Total number of adolescent	143
Total number of child	131

Group name	Male	Female
Elder	15	13
Middle	41	42
Adult	62	70
Adolescent	61	82

Child	64	67
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RESPONDENTS INFORMATION:

Employed	Frequency	Percent
Yes	19	24
No	60	76

Income and livelihood activities:

On salary: 24% of respondents (19 employed respondents)

On Government salary (biweekly)	Frequency	Percentage
Electrician	3	16
Electoral officer	1	5
Health assistant	1	5
House father	1	5
Council member	4	21
Teacher	2	11
Police officer	4	21
Judge	1	5
Operator	1	5
NIHS security officer	1	5

Artisan	16	20
Copra maker	11	14
Fishermen	1	1
Did not answer	32	41

Livelihood activities: Total number of fishermen, farmers and artisans in respondent's household.

Total number of fishermen	104
Total number of farmers	93
Total number of artisan	142

Level of Education	Frequency	Percent
No form of education	2	3
Elementary	3	4
Middle School	20	25
Highschool incomplete	37	47
Highschool diploma	10	13
College incomplete	5	6
Associate's degree	1	1
Graduate school	1	1

RELIGION: Some of the respondents attend more than one church.

Religion	Percentage
Assemblies of God	22
Baha'I faith	1
Full Gospel	14
Catholic	6
Mormon	4
Protestant	61
Seventh Day Adventist (SDA)	1

Transportation type	Percentage
Canoe	4
Fiberglass	11
No fiberglass	4
Aluminum w/engine	3
Aluminum without engine	3
Wooden boat with engine	1
Automobile diesel	1
Automobile gas	4
Bike	34
Wheel cart	35

MARINE

Main fishing area:

Fishing areas	Frequency	Percent
Lagoon side	59	75
Oceanside	11	14
Both	4	5
Did not answer	5	6

- Main fishing methods:

Type of fishing methods	Frequency	Percent
Bottom-fishing	55	70
Spear-fishing	53	67
Trolling	19	24
Throw-net	50	63
Long-net	52	66

- Main fishing gears:

Type of fishing gears	Frequency	Percent
Flashlight	49	62
Spear	49	62
Snorkel	40	51
Fishline	60	76
Pole	25	32
Throw net	49	62
Long-net	49	62

- Number of respondents interested in sea cucumber harvesting. (9 of the respondents did not answer)

Answer	Frequency	Percent
Yes	26	33
No	44	56

TOP REEF FISH:

- BEJROK
- MOLE
- KUBAN
- BWILAK

- JATO

TOP PELAGIC FISH:

- BWEBWE
- LOJABWIL
- IK AIDRIK

Do you catch seasonal fish?

- Yes (41 respondents) 52%
- No (29) 37%
- 11% Did not answer

Top seasonal catch: (usually during the summer)

- Tou
- Lojepjep
- Mole

Do you harvest turtles?

49 respondents said yes (62%) and 19 respondents said no (25%); 11(13%) respondents did not answer.

Turtle harvesting are usually harvested 2-3 times a year. The number of turtles spotted per trip is around 2-3 turtles.

Quantity of fish compared to now? 5 years ago.

Same (21 respondents) 27%

Somewhat the same (24) 30%

Far fewer (21) 27%

Did not answer: 13 (16%)

Size of fish compared to now?

Same (21) 27%

Somewhat smaller (29) 37%

Much smaller (16) 20%

Did not answer (13) 16%

- Explain why?

21 respondents said due to overfishing (27%)

12 said they do not know why. (15%)

46 Did not answer (58%)

How often do you fish?

Every day: 32%

3-6 times a week: 22%

1-2 times a week: 34%

Did not answer: 12%

When do you fish?

53 respondents said both day and night (67%)

11 during the day (14%)

15 Did not answer (19%)

- How much do you catch per trip?

Pounds	Frequency	Percentage
5-20	19	24
20-40	16	20
40-65	11	14
65-80	4	5
80-125	12	15
125-375	3	4
Did not answer (or missing value)	18	18

Catch Breakdown

% Sale	% Consumption	Frequency	Percentage
0	100	9	11
10	90	1	1
20	80	11	14
30	70	7	9
40	60	7	9
50	50	16	20
60	40	4	5
70	30	2	3

80	20	10	13
90	10	1	1
100	0	11	14

EARN AND SELL PER MONTH:

How much do you earn per month?

Amount	Frequency	Percentage
\$0-\$6	5	6
\$6-\$10	3	4
\$10-\$21	7	9
\$21-\$38	6	8
\$38-\$50	7	9
\$50-\$83	2	3
\$83-\$167	10	13
\$167-\$283	7	9
\$283-\$400	5	6
\$400-\$500	4	5
\$500-\$800+	4	5

- How often do you sell your catch per month?

	Frequency	Percentage
1 time	29	37
2 time	7	9
3 times	1	1
5 times	6	8
6 times	1	1
9 times	5	6
13 times	2	3
17 times	1	1
Everyday	2	3

- Are you aware of ciguatera fish poisoning?

YES: 67 respondents (85%)

No: 4 respondents (5%)

- Ciguatera fish species found on Wotje according to the respondents:

Iool, Mole, Paan, Mera, Ekmouj, Al, Jure, Jilo and Lañe.

- Where do you sell your fish?

Majuro: 25 respondents (32%)

Ebeye: 1 respondent (1%)

Within community: 58 respondents (73%)

MIMRA fishbase: 11 respondents (14%)

TERRESTRIAL:

- Type of livestock

Pig: 58 respondents (73%)

Chicken: 61 respondents (77%)

Duck: 7 respondents (9%)

None: 6 respondents (8%)

- Where do you keep your livestock?

Lagoonside: 10 respondents (13%)

Oceanside: 2 respondents (3%)

Center: 9 respondents (11%)

Free-range: 51 respondents (65%)

Did not answer (8%)

- Type of crops/trees grown by the respondents:

TOP 3: Breadfruit, pandanus and coconut.

Other crops grown by respondents include: papaya, banana, pumpkin and lime.

- Where do you sell your crops?

Majuro: 11 respondents (13.9%)

Ebeye: 5 respondents (6.3%)

Within community: 12 respondents (15.2%)

Do not sell: 33 respondents (41.8%)

If crops are sold, they are usually up for sale once a month. The respondents are not certain how much they earn. It all depends on how much they are willing to sell or how much the buyer is willing to buy.

- Compare terrestrial resources from 5 years ago:

About the same: 8%

There is somewhat less now: 47%

There is far less now: 24%

Did not answer: 21%

- Explain:

Due to climate change (32% respondents)

Drought (37%)

Did not answer (31%)

- Non-food trees grown by respondents:

Kiop, noni, koni, wut pirokrok and wutilomar. There are more but these are the top non-food trees mentioned by the respondents.

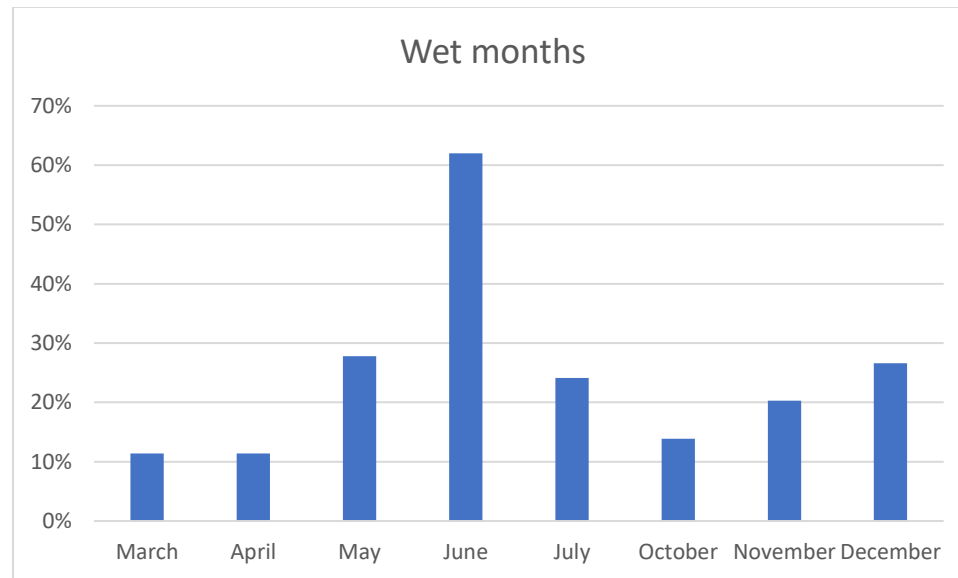
- Where do you plant trees?

57% do not plant trees

19% plant at the lagoonside

24% Did not answer

- Which month is usually wet?



Wet season in Marshallese: Anin rak

Dry season in Marshallese: Anin ean

Extremely dry season: din din in mejlep

- Supplies used for handicraft:

Shell: 23%

Coconut fiber: 96%

Pandanus: 39%

Wood: 8%

Wire: 20%

Tape: 4%

Needle: 1%

Vinegar: 1%

Color/dye: 1%

- Where do you sell your handicrafts? (respondents can choose more than one answer)

Majuro: 83%

Ebeye: 24%

Within community: 71%

USA: 14%

- How much do you earn per year?

It all depends on how much people buy. Some earn up to \$1200 per year. 32% of the respondents said they sell their products every month.

- What do you buy with your handicraft profits? (respondents can choose more than one)

Food: 89%

Cash power: 56%

Transportation: 22%

Healthcare: 38%

Education: 44%

Home/hygiene: 22%

STATUS OF THE ATOLL:

Environmental threats	Percentage		Human threats	Percentage
Fishing practices	33		No electricity	13
Too much fishing	39		Remote location	15
Too much harvesting turtles	39		Out migration	20
Too much harvesting coconut crabs	34		Too many visitors	15
Invasive species	13		Poor governance/communication	17
Climate change	96		Poor education services	15
Extreme weather events	72		Poor health services	17
Poor education/health/transportation services	20		Poor transportation services	17
Not enough freshwater	51		Littering/Illegal dumping	51

Resources	Very healthy	Somewhat healthy	Somewhat unhealthy	Very unhealthy	I don't know
Coral reefs	4	22	36	17	21
Underground water	6	26	32	31	5
Native trees	0	12	49	34	5
Number of sea cucumbers and sea urchins	1	19	6	18	55
Number of fish	4	21	32	22	22

Are you aware of any marine or terrestrial resource management measures that are in place? (%)

Measures	Yes	No	Not sure
Traditional protected area	78	10	12
Protected area	72	17	11
Limits on catch	23	62	14
Seasonal fishing	36	51	13
Collection sea invertebrates	33	54	13
Replanting native trees	29	55	16
Shoreline replanting	29	55	16
Species protection	22	42	34
Livelihood program	44	37	20
Zones	42	40	18

Does this household take part in conserving natural resources? (%)

Never	26
In past, not now	5
Seldom	8
Frequently	17
Always	44

To your understanding, do we practice any other sustainable measures in our culture?

Yes	55
No	13
Not sure	32

Please explain answers on previous table:

Jab eo jojo	15
Install pig pen	2
Limit harvesting turtles	2
Release small fish if caught	2
Conserve resources	11
Awareness delivered by local council regarding how to conserve natural resources	21
MPA selected by traditional leaders and local gov't	2
Prohibit drinking alcohol	2
Do not fish on sundays	2
Create season for fishing	2
Do not litter	2

- Where do you get information about the environment? (%)

Newspaper	4
Radio	87
TV	1
Brochure	0
Information signs	0
Community members	45
Community meeting	40
Work	5
Mobile phone	15
Internet	3
Traditional knowledge	8

What do you do with the old batteries?

Throw away with the rest of the trash	43
Put aside for separate disposal	41
I don't know	16

Have you heard of the Micronesia Challenge?

Yes	5
No	88
Not sure	4
Did not answer	3

What kind of access to freshwater do you have? (%)

Water catchment tank	92
Water well	49
Makeshift water bins	5
Gov't water supply system	4
Village water supply	5
Reverse osmosis	11

What are the individual volumes of your home's rainwater storage tanks?

Volume	Percentage
150	1
500	16
1000	19
1200	1
1300	1
1500	47
1800	3
2000	1
2500	7
5000	1
10000	1

How does your household treat your main drinking water? (%)

No treatment	28
Boiling	49
Bleaching and chlorine	45
Sand/clay filter	8
Cloth	11
Reverse osmosis	1

How do you dispose your trash? Where? (%)

Trash pits	58
Burn	26
Lagoon	1
Anywhere	1

Is your household exposed to any of the following climate impacts? (%)

Tropical storm/cyclone	40
Coastal erosion	21
Flooding/wave inundation	22
Drought	95
Tornadoes	4
King tides	27
Salt spray damage	46
Salt water intrusion	49
High temperature heat	71
Disease outbreak	62

How often do you and your household use traditional knowledge for forecasting weather events?

Never	49
In past, but not now	1
Currently, but not in the past	3
Rarely	23
Often	10
Always	14

If you use traditional knowledge, how reliable is it for weather and climate forecasts?

Not reliable	4
Sometimes	39
Very reliable	5

Have you heard of climate change, global warming and greenhouse effect?

Yes	76
No	24

IF yes, from where?

Radio/news	40
Visiting group (IOM, Disaster, WUTMI)	21
School	12
Local Gov't	25

AQUACULTURE:

Are there any ongoing aquaculture activities going on right now?

Yes	13
No	60

Has there been any aquaculture projects or activities in the past within the atoll?

Yes	23
No	50

What kind of animal/plant were cultured?

Giant Clam and Fish

Who managed or organized the aquaculture activities/projects?

MIMRA or Private company

When did it started and how long was it for?

Respondents are not aware of when and how long it was for

Do you have any skills or have been trained in aquaculture?

Yes	13
No	47
Did not answer	40

If you were to farm marine animals/plants in the lagoon, will you need to get permission to do so?

Yes	61
No	4
Did not answer	35

- **How often does a field trip or AMI come to this Atoll?**

AMI: Once a week. Boat does not have a reliable schedule.

- **What are the significant resources (terrestrial & marine) for this atoll?**

Handicrafts, agriculture, marine resources, livestock, water and copra

- **What are some of the existing projects that are currently happening?**

Handicraft	5
MIMRA Fishbase	9
Agriculture	3
Reimaanlok process	1
KUMIT Coalition	10
WUTMI	1
Sea cucumber harvesting	1
Terminal construction	1
RO installation	1
Did not answer	67