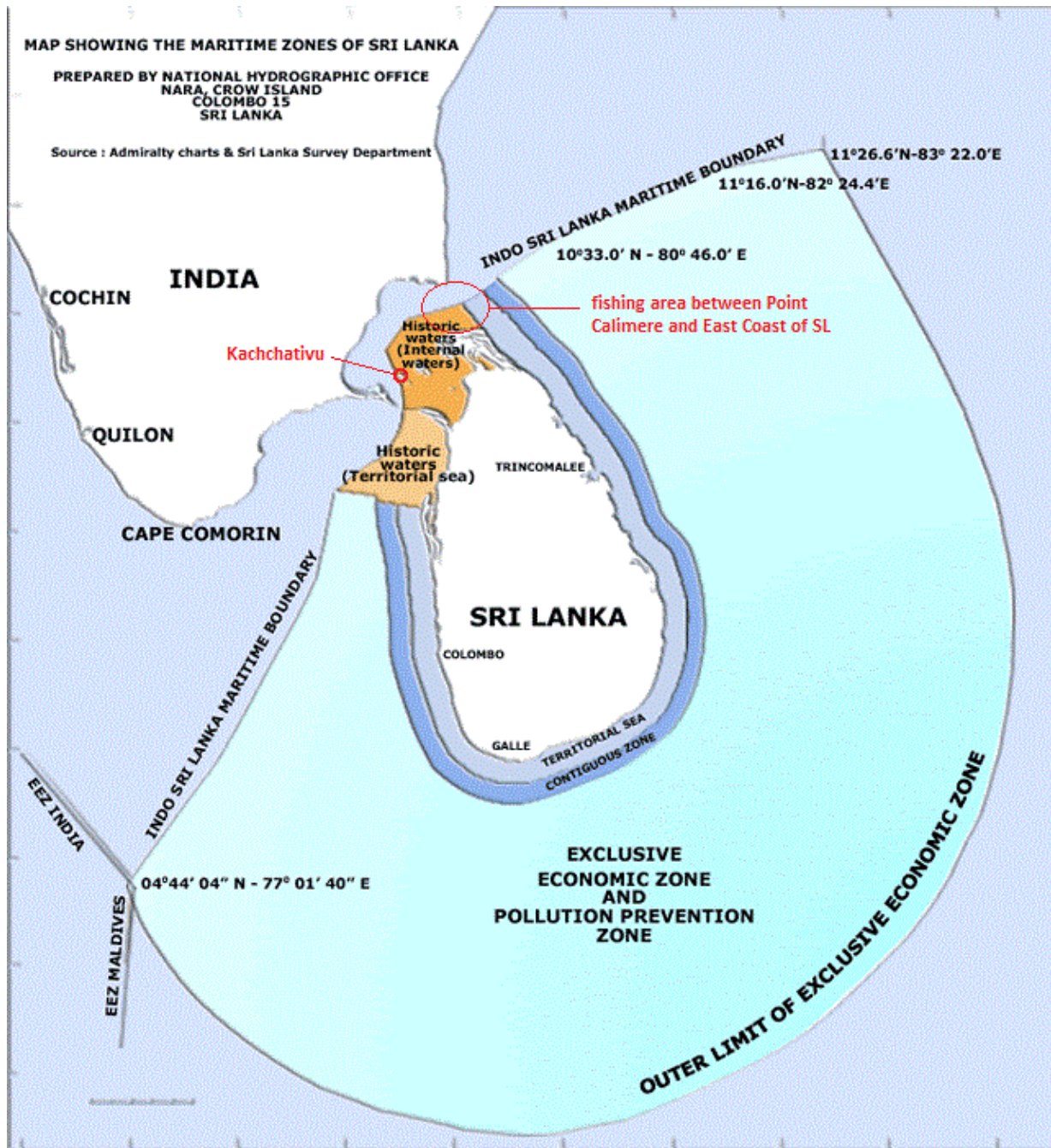


Livelihood Diversification of small scale fisher women as a Climate Change adaptation strategy: evidence from a small scale fishing community in southern Sri Lanka

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Characteristics of the Small Scale fisheries in Sri Lanka

- Artisanal and traditional crafts
- Very little capital investment
- A day fishing trips
- Subsistence needs
- Men involve in fishing
- Women involve in post harvesting activities

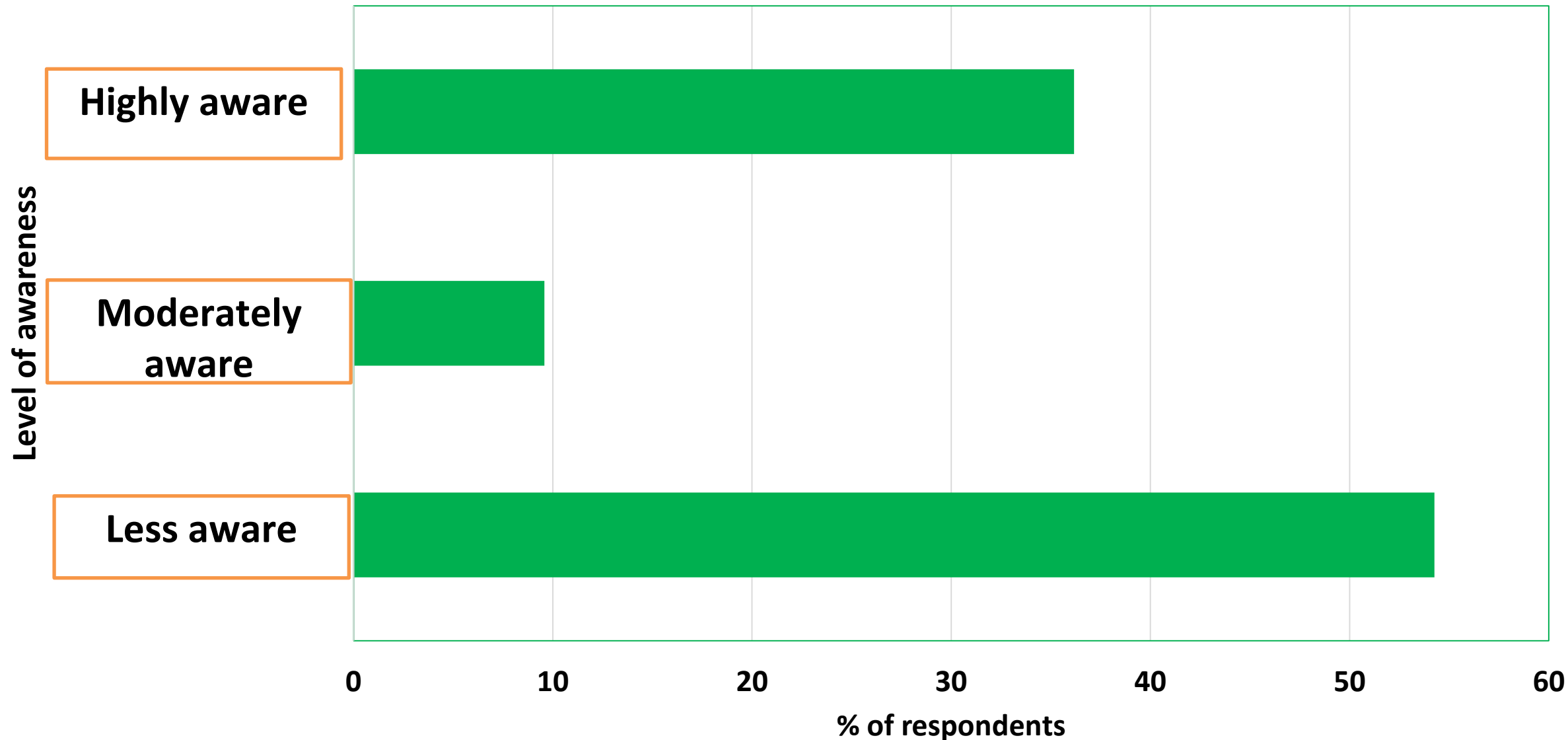
OBJECTIVES

1. To identify the socioeconomic characteristics of small scale fisher women
2. To find out the level of awareness on climate change among small scale fisher women
3. To investigate the impact of climate change on small scale fisheries sector
4. To identify strategies adapted by fisher women to overcome climate change impact

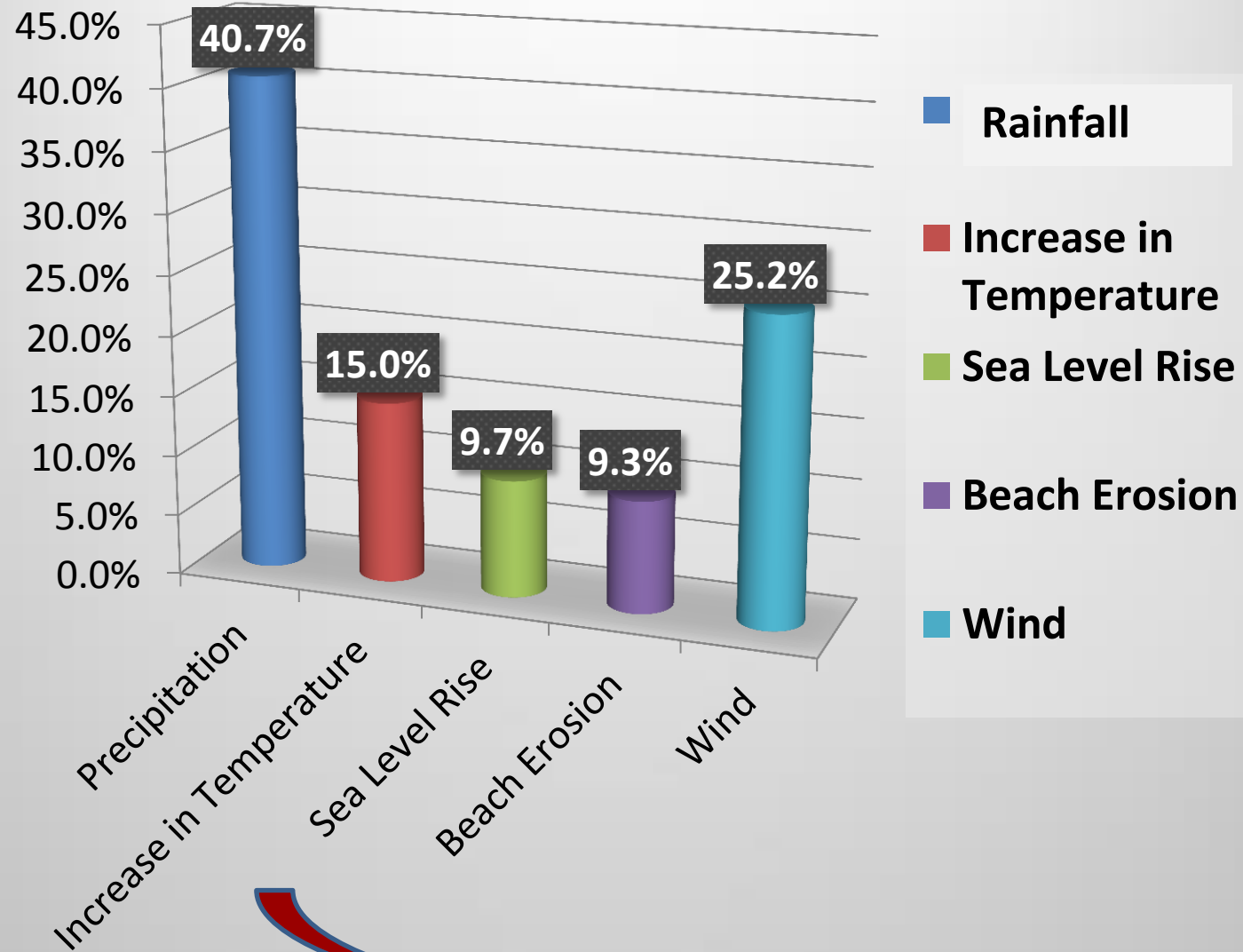
Methodology

Study area	<ul style="list-style-type: none">• Nilwalla - Dikwella DSD
Sampling method	<ul style="list-style-type: none">• Simple random sampling
Sampling size	<ul style="list-style-type: none">• 94 small scale fisher women
Data collection 	<ul style="list-style-type: none">• Primary data - Focus group Discussion / Pre tested structured questionnaire

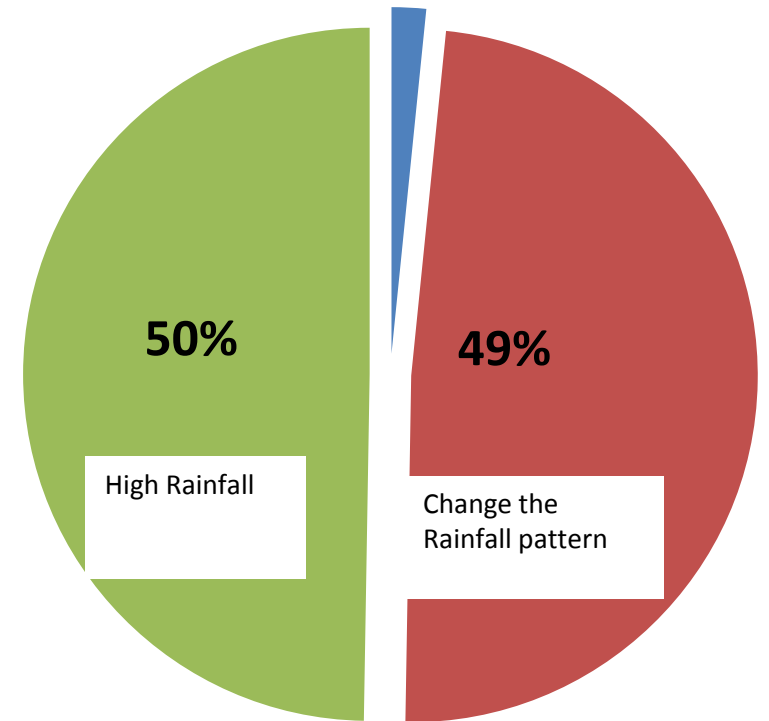
2. Fisher women's level of awareness on climate change



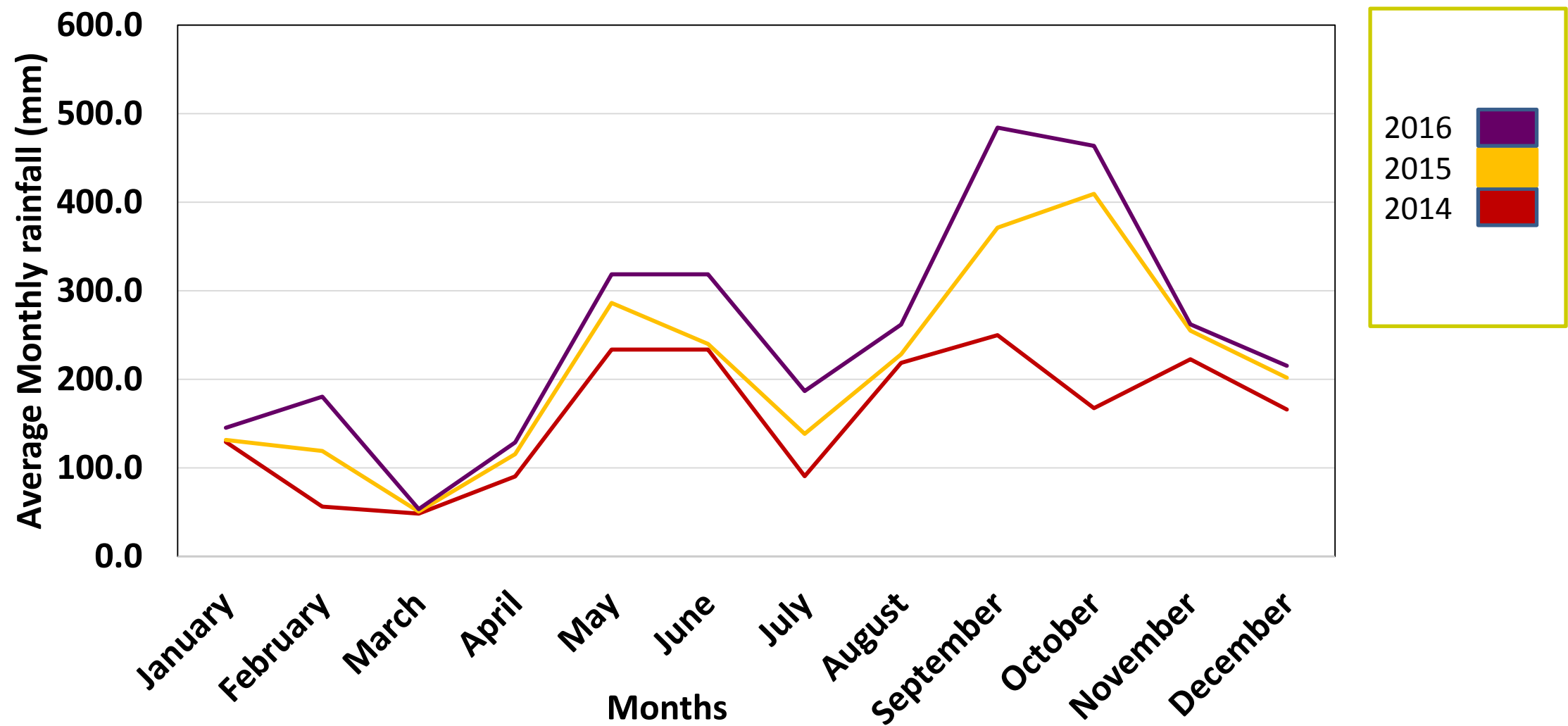
Observed climate change parameters



Changes in rainfall

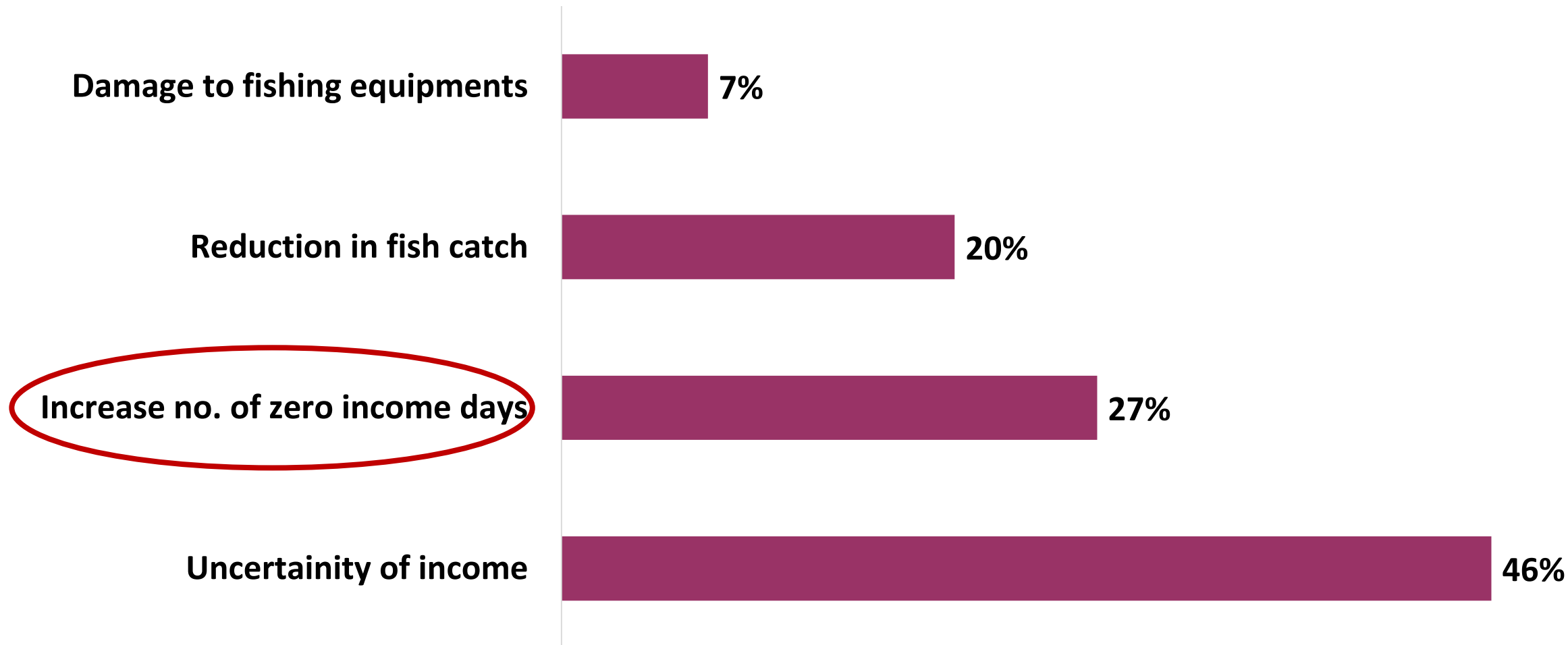


Rainfall pattern of Matara District

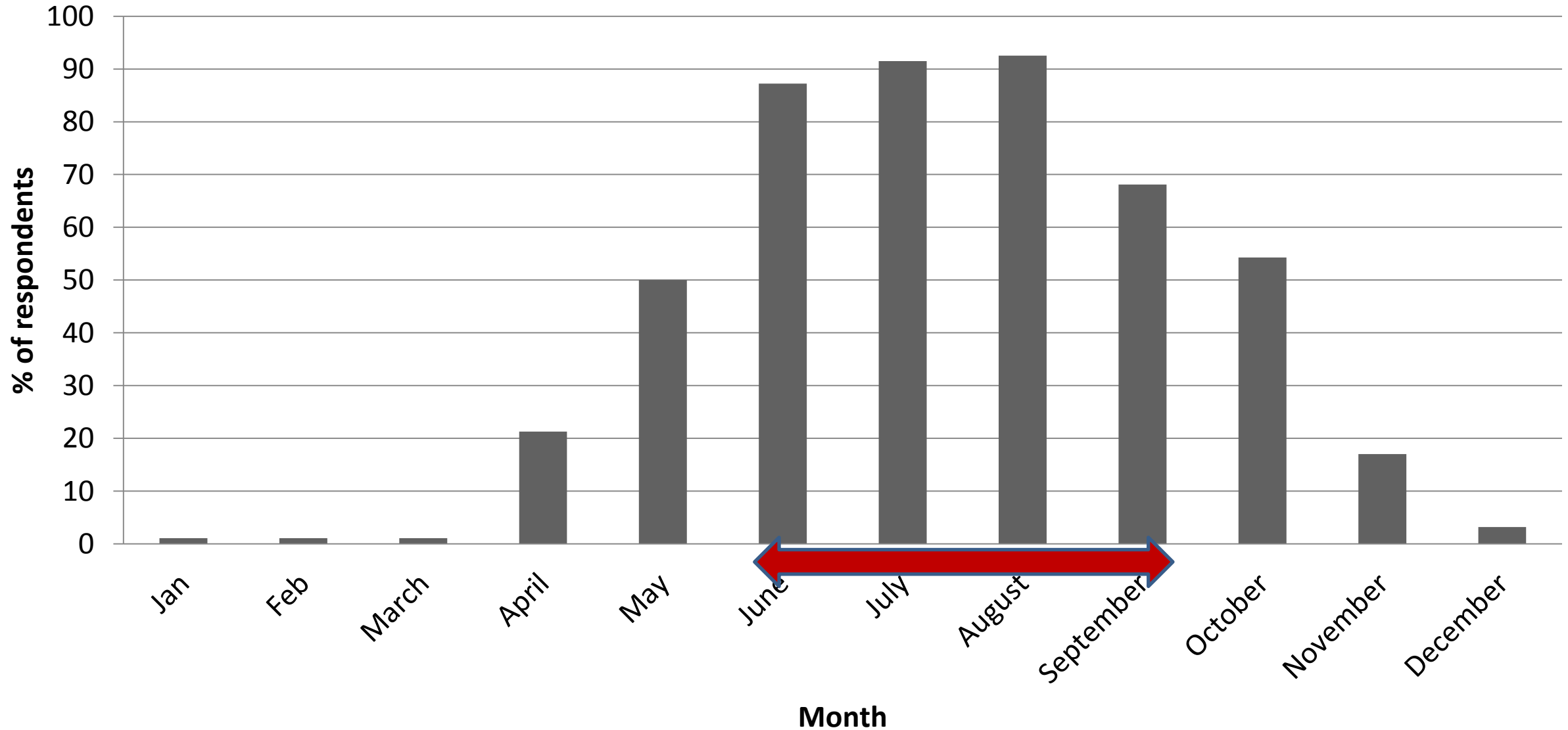


Source – Weather station, Faculty of Agriculture,

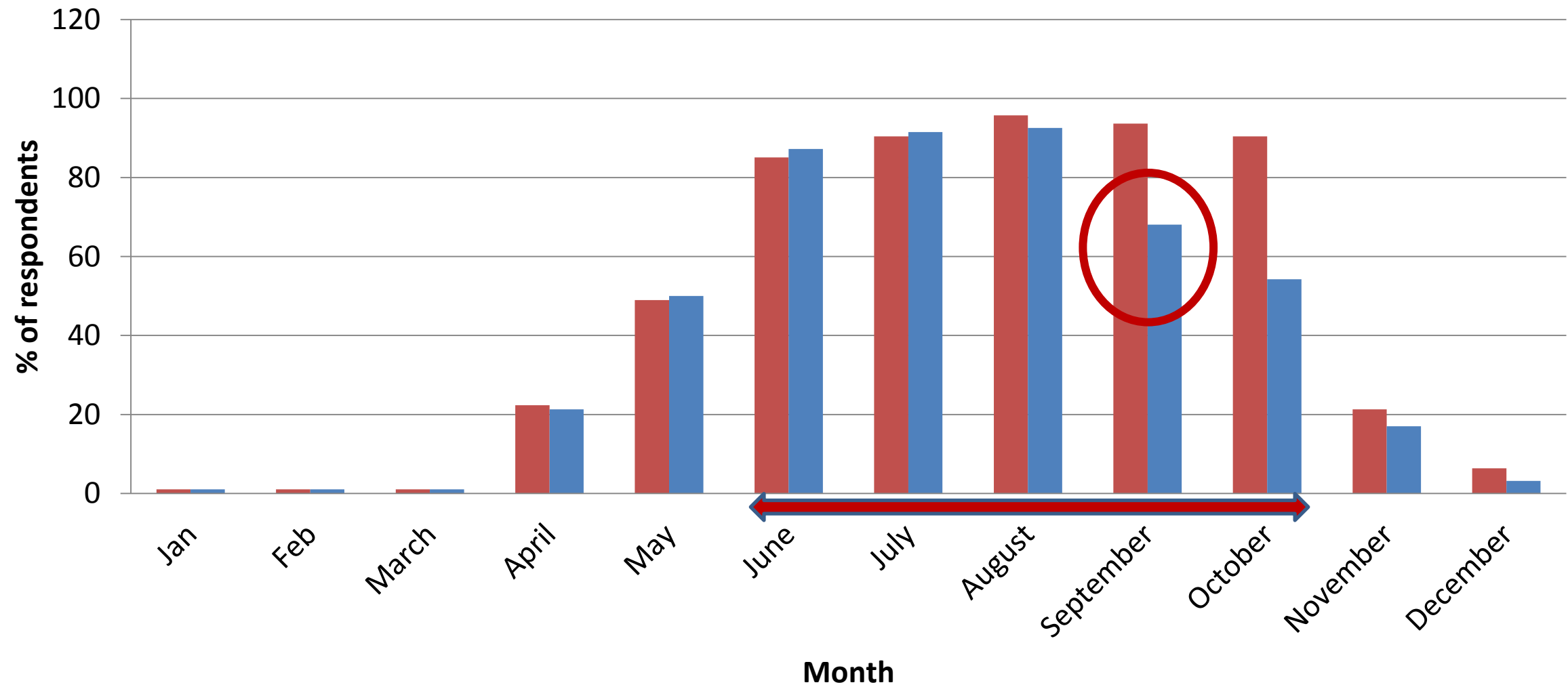
2. Experienced Impacts of climate change to fisheries sector



Annual pattern of fishing in Nilwella area – Present situation



Change in annual pattern of fishing in Nilwella area

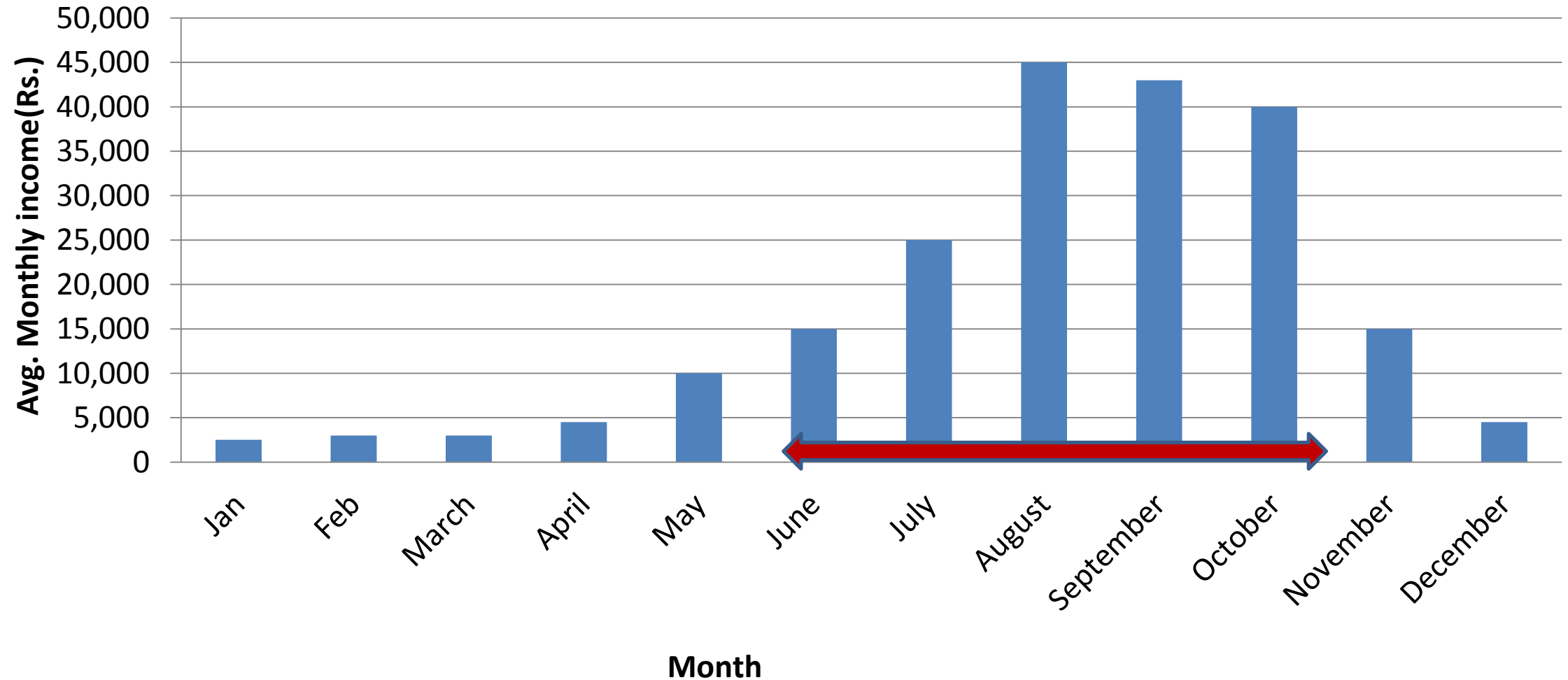


Before three years

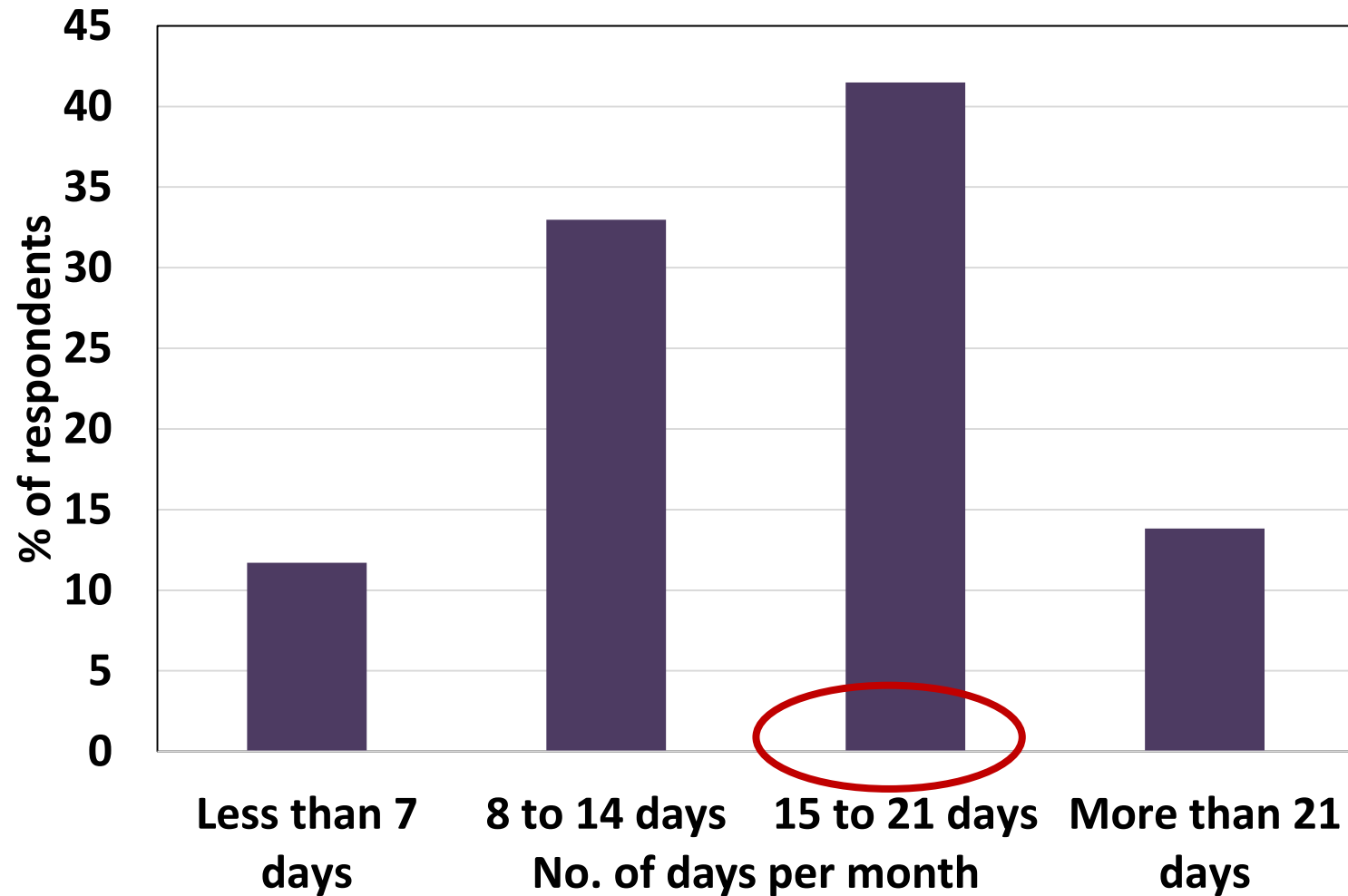
Now

Uncertainty of Income

Income variation of fisheries sector

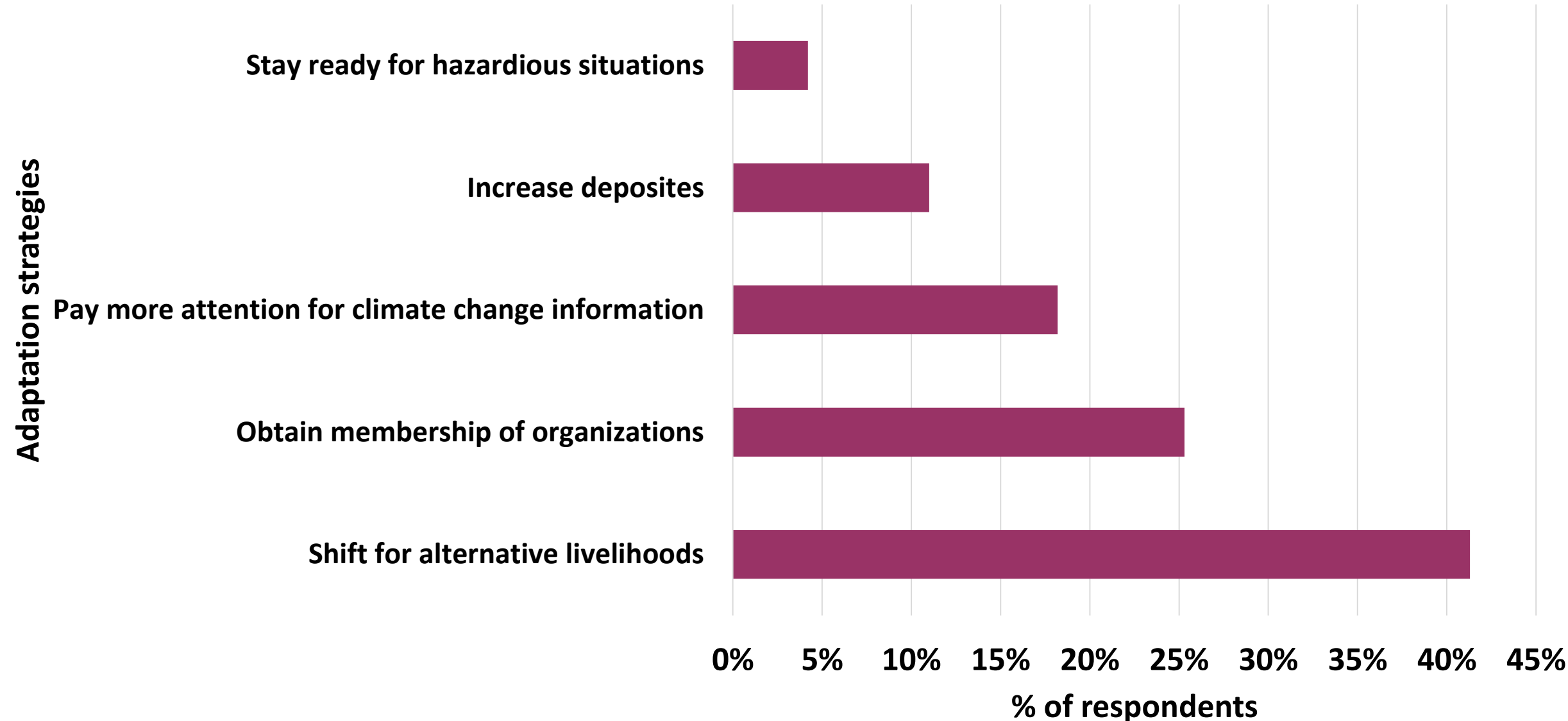


No. of zero income days per month from fisheries

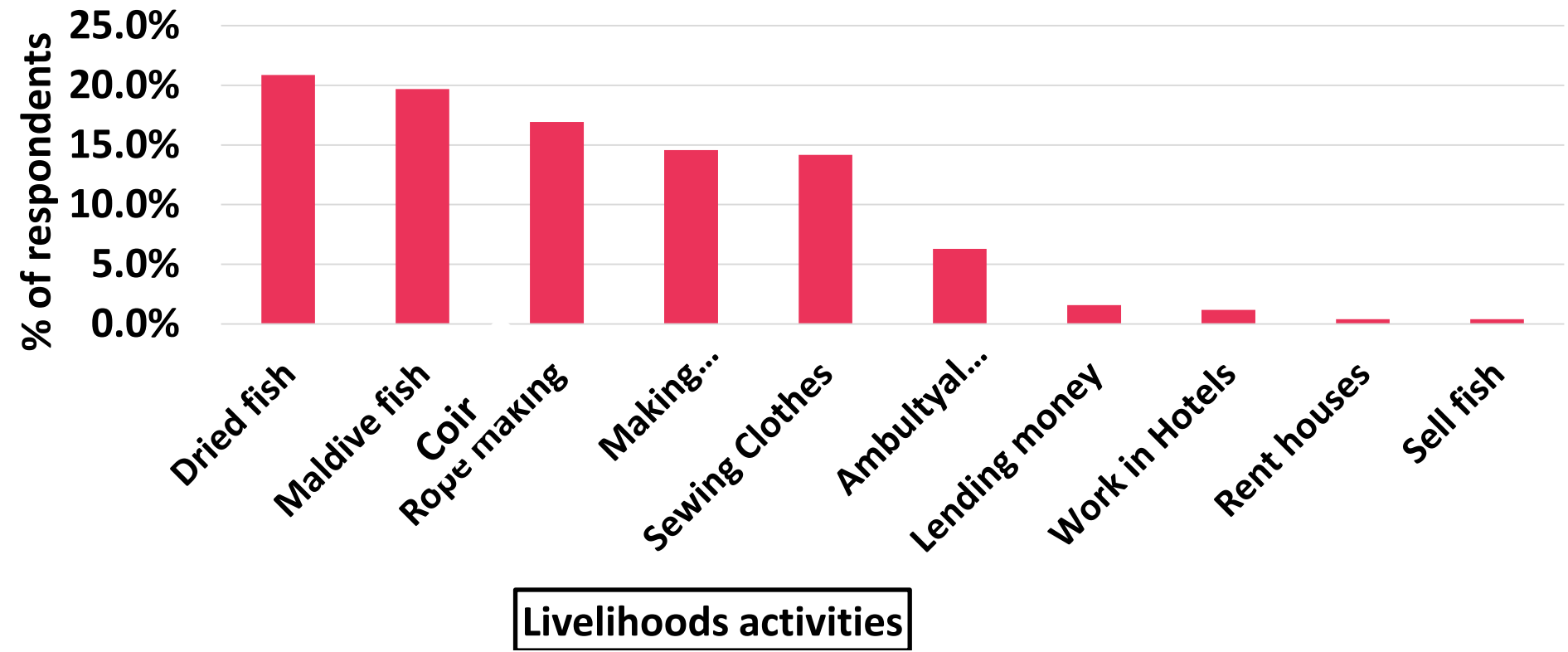


	Strongly Agree(%)	Agree (%)	Neutral (%)	Disagree (%)	Strongly Disagree (%)
No. of zero income days per month have been increased within past 3 years	55	41	3	0	0
No. of zero income days per month have been increased due to climate change impacts	56	39	4	0	0
Fishing income is highly uncertain due to climate change	79	21	0	0	0
Fish catch is highly uncertain due to climate change	65	32	3	0	0

Adaptation strategies practiced by women



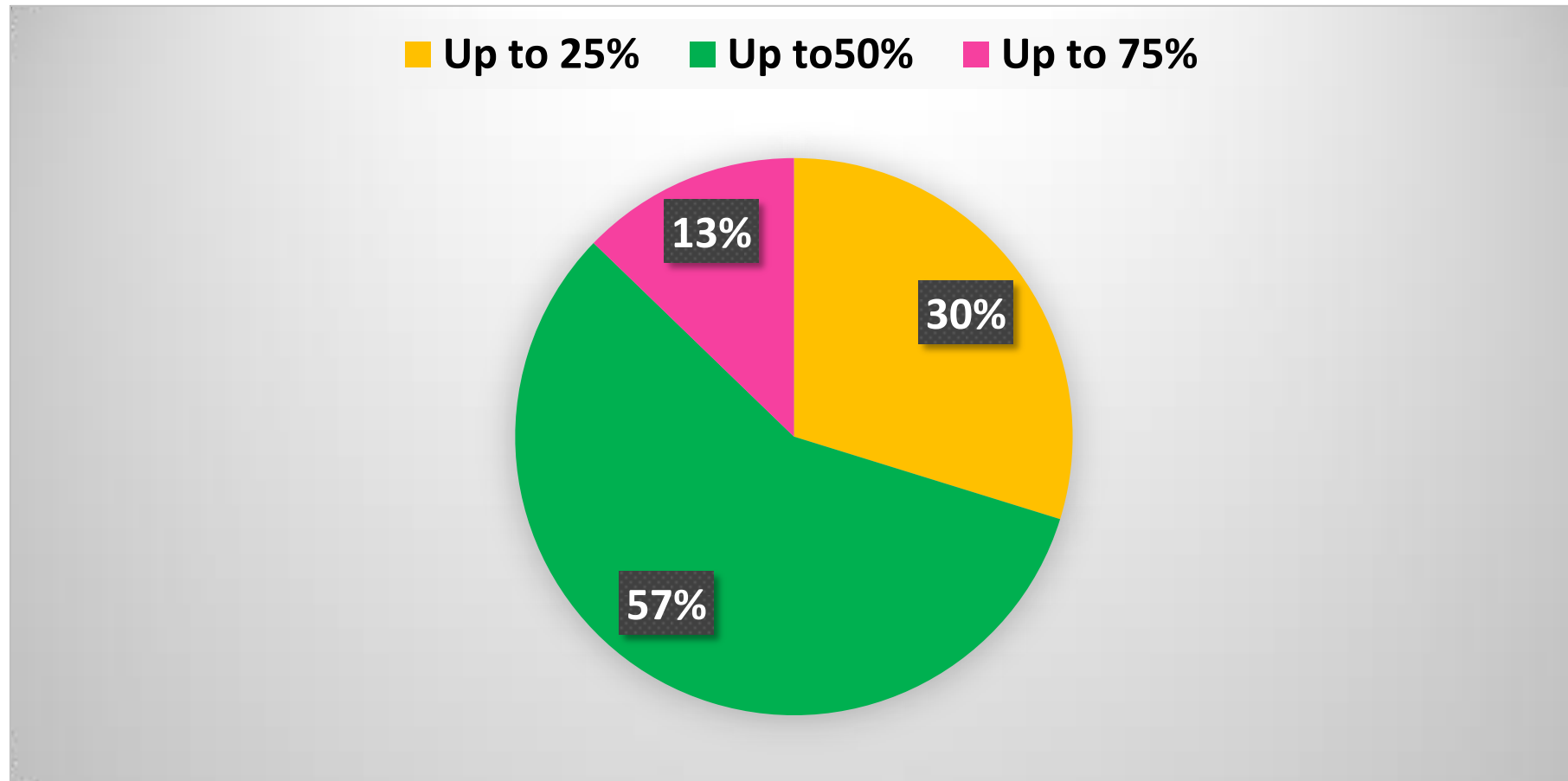
Different livelihood activities of women



Average monthly income from alternative livelihoods



Contribution of alternative livelihoods to the monthly income



No. of livelihood activities Vs. Average monthly income

Correlations

		Livelihoodactivities	Monthlyincome
Livelihoodactivities	Pearson Correlation	1	.307**
	Sig. (2-tailed)		.003
	N	94	94
Monthlyincome	Pearson Correlation	.307**	1
	Sig. (2-tailed)	.003	
	N	94	94

** . Correlation is significant at the 0.01 level (2-tailed).

- No. of livelihood activities and average monthly income have a statistically significant linear relationship ($p < 0.01$).
- Direction of the relationship is positive; No. of livelihood activities and average monthly income are positively correlated. Variables are tend to increase together.
- Magnitude (Strength) of the association is approximately weak ($0.1 < | r | < 0.3$).

No. of livelihood activities Vs. Average monthly income

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.307 ^a	.095	.085	2762.58824

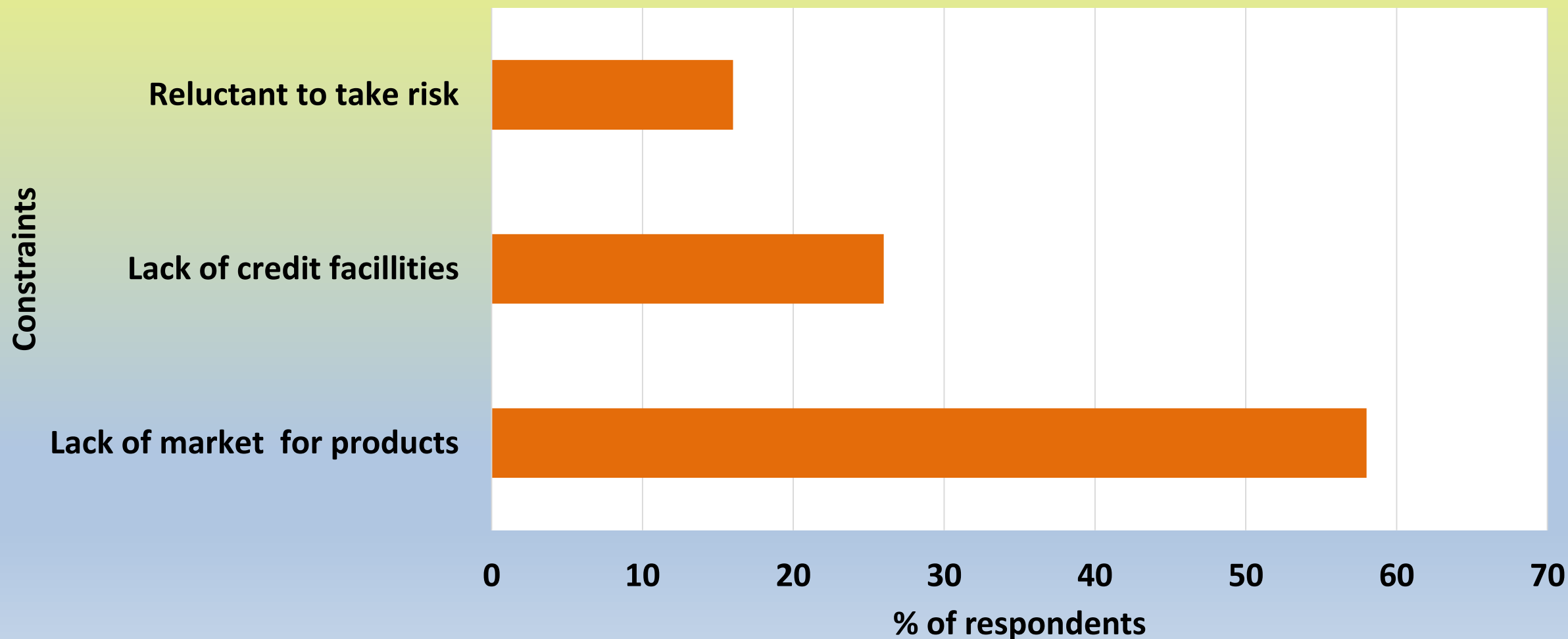
a. Predictors: (Constant), Livelihoodactivities

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2849.545	898.962		3.170	.002
	Livelihoodactivities	981.592	316.780	.307	3.099	.003

a. Dependent Variable: Monthlyincome

Constraints for diversification of livelihoods



Conclusion

- Almost all women in the fishing community are involved in more than one livelihood activity.
- They have diversified their livelihood activities as a risk management strategy
- Lack of market for products is a major issue in adapting livelihood strategies.
- Training and capacity building of women is useful in helping them to undertake alternative livelihood strategies.

THANK YOU