



TS210

Significant Predictors of Poor Female-Headed Households with Climate Change Experience in Sabak Bernam Selangor

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1. Introduction
2. Objective
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5. Discussion



Female climate change victim group during survey, Panchang Bedena, Sabak Bernam (29 January 2025).



- **Loss of agro-diversity** due to climate change (Shawon et al., 2018) may **threats fisheries industry** (Yin et al., 2025)
- Besides fisheries activities involve **masculine activities**, (Zainalaludin et al., 2023; Saidi et al., 2021). Thus **women headed household** usually hard to earn income in fisheries communities (Zainalaludin et al., 2022; Kusakabe & Thongprasert, 2022; Saidi et al., 2021)
- Moreover the vulnerable groups will be poor and marginalized in coastal communities (Dinh et al., 2025), especially **disabled men and poor single mothers** (Saidi et al. 2021)



FGD session with wives of fisheries workers,
Panchang Bedena, Sabak Bernam
(30 January 2025)



Objective

This paper aims to identify the significant predictors of **poor female-headed households** with **climate change experience (CCE)**.

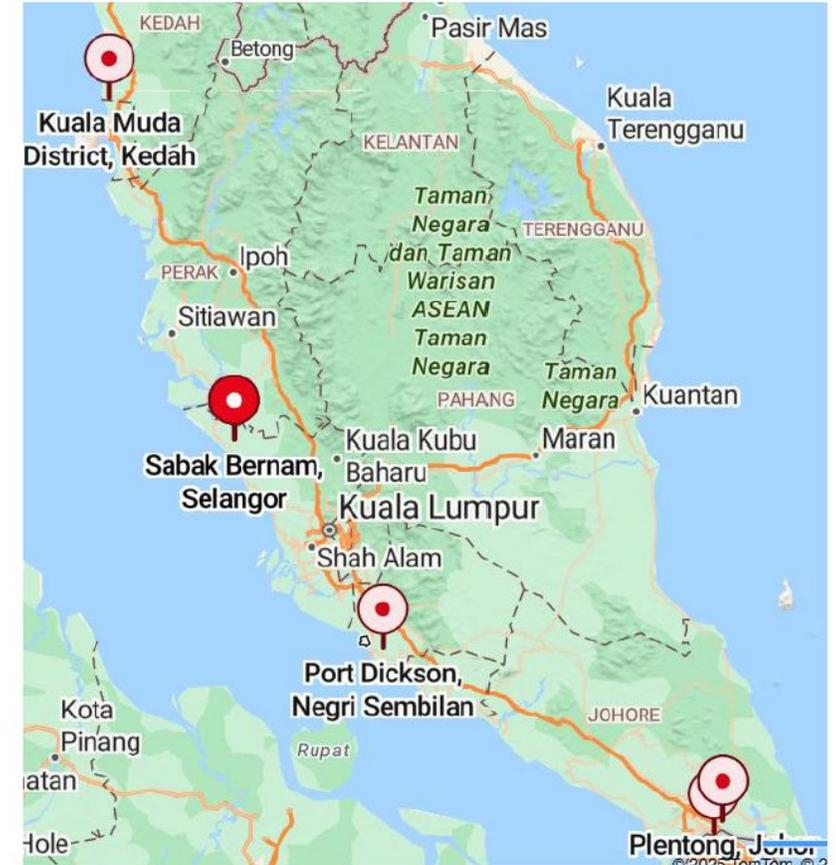


Male victims of climate change during an FGD session at Pasir Panjang, Sabak Bernam (26 January 2025)



Methods

- Location: Sabak Bernam, a coastal district in Selangor state located at Malacca Strait of Peninsular Malaysia.
- Data sources - the **SURVEY** ($n=274$); and $n=230$ (83.94%) of respondents with CCE



Study Locations in Sabak Bernam



Methods

- **Respondents** - coastal communities who are assumed vulnerable to climate change impact
- **Equal Distribution** - between male and female – refer sampling table
- Malaysia **PLI=RM2589** (USD613.58) - was used to classify the poor category of household income (DOSM, 2023)
- Select only **Household income ≥ 0 with CCE** for analyses in this study.
- The respondents involve may in both gender - male and female



Female victims of climate change during an FGD session at Pasir Panjang, Sabak Bernam (29 January 2025)



Sampling Table

District	Sabak		Pasir Panjang		Sungai Panjang		Bagan Nakhoda Omar		Panchang Bedena		Total
	M	F	M	F	M	F	M	F	M	F	
Sabak Bernam	30	30	30	30	30	30	30	30	30	30	300



Question in the SURVEY on **CCE - Q3 (Part G[i])** :-

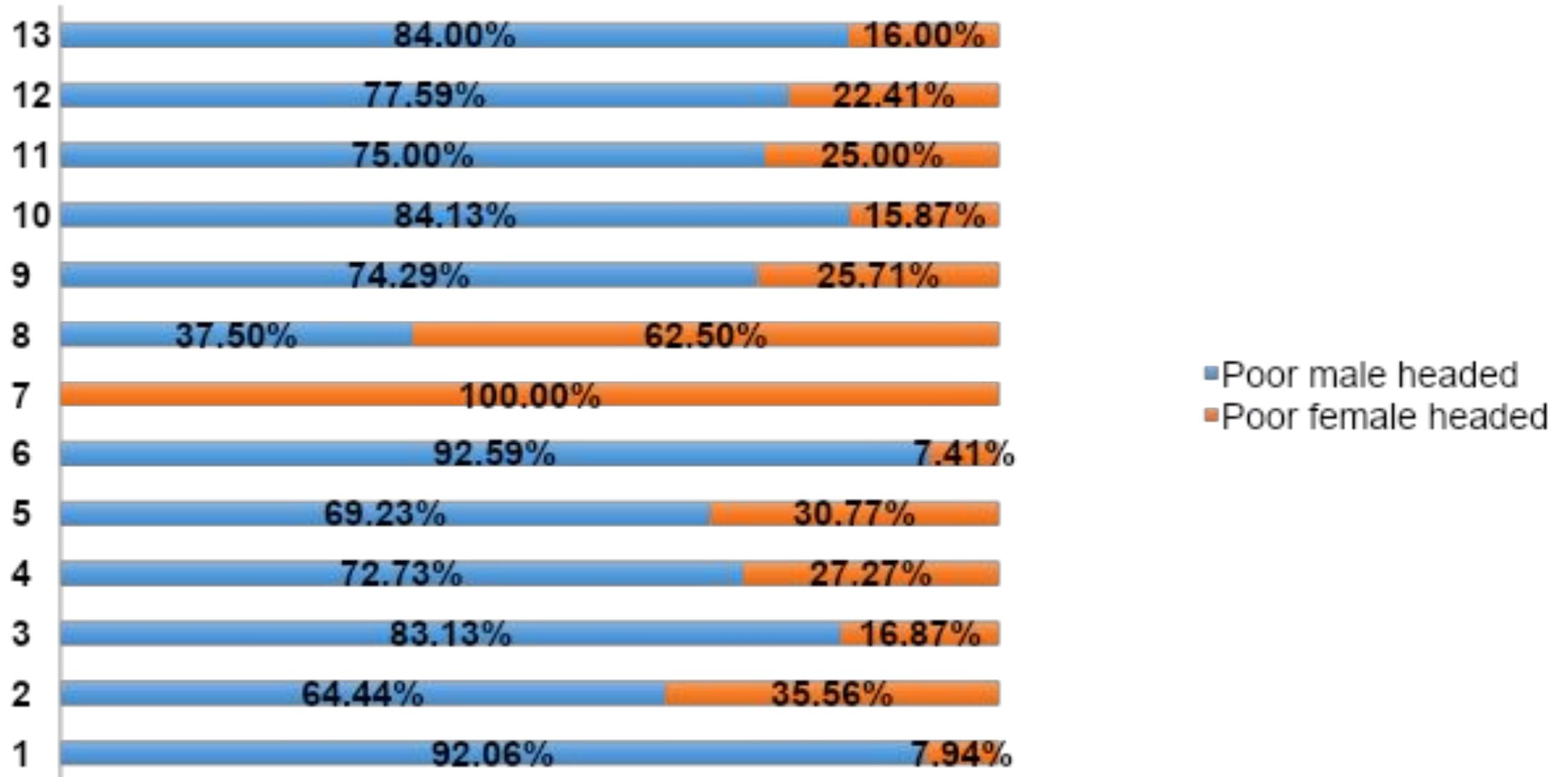
What type of disasters that you use to experience at your place?

1. flood
2. high tide
3. drought
4. storm
5. others

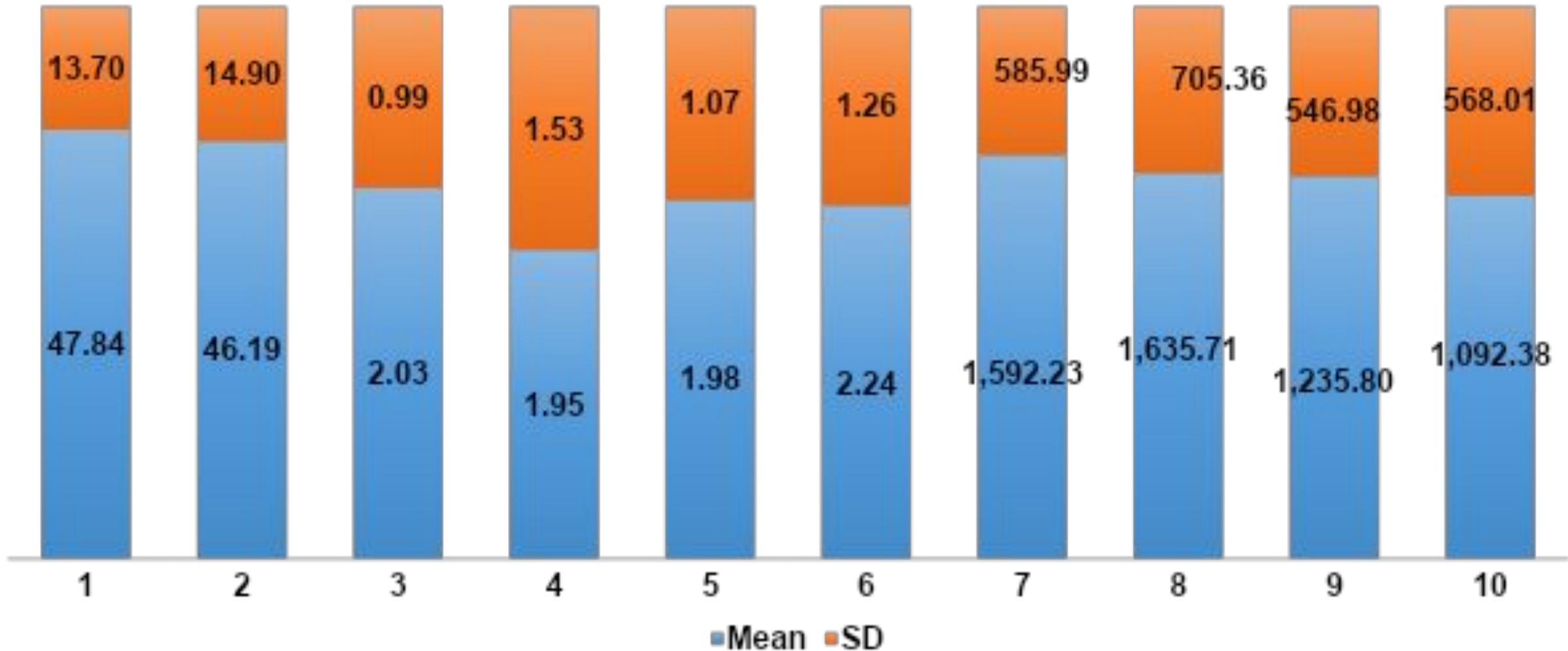
**$n=238$ (86.86%) (n multiple responses=441) with
CCE=yes**

(answer 1-4 from climate change, answer in 5 will be categorised as CCE YES/NO)

Profile of Respondents in the SURVEY



Profile of Respondents in the SURVEY





Wald Chi Square Table (poor female headed household with CCE=1), (n=230)

Variable	B	S.E.	Wald	df	Sig.	Exp(B)
Gender (Male=1)	-2.001	.610	10.747	1	.001	.135
Academic Background (High=1)	-.724	.669	1.172	1	.279	.485
Household Expenses	-.001	.000	9.130	1	.003	.999
Day-pay Workers (No=1)	2.176	1.081	4.053	1	.044	8.812
Age	-.027	.020	1.768	1	.184	.974
Constant	.286	1.639	.030	1	.862	1.331



Significant Predictors of Poor Female-Headed Households with CCE

- **Gender (Male=1)** - male gender explain less 86.5% likelihood that the respondents from poor female headed household with CCE
- Respondents in this study are males or females, and they are from male- or female-headed household



Significant Predictors of Poor Female-Headed Households with CCE

- **Household Expenses** - increase of RM1 of household expenses explain less 1% of likelihood of the respondents from poor female headed household with CCE
- High household expenses reflect “non-poor” status, which may cause increase of household expenses explain less likelihood from poor household
- Nevertheless the percentage of 1% is very small
- Another point of view the CCE may cause increase in household expenses



Significant Predictors of Poor Female-Headed Households with CCE

- **Day-pay Workers (No=1)** - responders who are not 'day-pay worker' explain 8.812 time likelihood that they are from poor female headed household with CCE
- This findings may reflect that though day-pay-worker is a vulnerable group in Malaysia but working as day-pay-worker can assist someone out of poverty
- The odds=8.812 time is vey high that working as day-pay-workers help in poverty eradication espaecially among those with CCE in coastal community



From the context of this paper, can you suggest ONE concept that may contribute to Climate Change Adaptation Strategy?

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<https://www.menti.com/alnbai1teeac>





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