Impact study > Risk Assessment > Vulnerability > Coping Capacity

for rice, cassava, sugarcane and maize production systems in Thailand

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ประชุมกลุ่มย่อย (Focus group meeting) โครงการศึกษาผลกระทบจากการเปลี่ยนแปลงและความแปรปรวนของสภาพภูมิอากาศในอนาคต ความล่อแหลม เปราะบางและการปรับตัวของภาคส่วนที่สำคัญ

๑๒ พฤษภาคม ๒๕๕๘ ห้องประชุมกรุงเทพ ๓-๔ ชั้น ๙ โรงแรมเดอะแลนด์มาร์ค กรุงเทพมหานคร

CONTENTS

Objectives: (for rice, cassava, sugarcane and maize production systems in Thailand)

- Exposure & Impact study > Sensitivity & Risk Assessment > Adaptation & Coping Capacity > Vulnerability
- V = f(E+S-AC) or V = 1/3(E+S+(1-AC))
- Criteria for Adaptation & vulnerable in RI, CS, SC & MZ

Vulnerability Assessment process

A sensitivity analysis for RI-CS-SC-MZ production

An evalu … e RI-CS-S … d

An asse… ystems in T… nate change

SENSITIVITY is the degree to which a built, natural or human system is directly or indirectly affected by changes in climate conditions (e.g., temperature and precipitation) or specific climate change impacts (e.g., sea level rise, increased water temperature). If a system is likely to be affected as a result of projected climate change, it should be considered sensitive to climate change.

http://cses.washington.edu/db/pdf/snoveretalgb574ch8.pdf

Current Understandings: Impact or sensivity studies:

- AR5 Climate models on-going research (Assit. Prof. Dr. Jerasorn Santisirisomboon, RU)
- Rice production systems in Thailand (Dr. Chitnucha Buddhaboon, Director SKNRRC, RRDD, RD).
- Cassava, sugarcane and maize production systems in Thailand (Dr. Somchai Boonpradub & Mr. Sukit Ratanasriwong, DOA).

Current Understandings: V&A studies:

- Vulnerability and adaptation studies (Dr. Vichien Kerdsuk, RDI, KKU).

Objectives:

- Impact study > Risk Assessment > Vulnerability > Coping Capacity for rice, cassava, sugarcane and maize production systems in Thailand
- Criteria for vulnerable & adaptation in RI, CS, SC & MZ

Vulnerability of RI, CS, SC, MZ

Vulnerability = f(Exposure + Sensitivity - Adaptive Capacity)

Vulnerability of RI, CS, SC, MZ
V = f(E+S-AC)

	Exposure (E)		
Impact (S)		Low	High
	Low	Low V	Medium V
	High	Medium V	High V

Vulnerability of RI, CS, SC, MZ
V = f(E+S-AC)

	Exposure (E) of rainfed RI to drought Household/Community/TAO		
Impact (S) of drought on Rainfed-RI		Low	High
	Low	Low V	Medium V
	High	Medium V	High V

Breakout focus groups to identity V&A criteria (Crop, Household, Community, TAO, National):

- **Rice, cassava, sugarcane and maize production systems in Thailand**
- **Conclusion: Criteria for vulnerable & adaptation in RI, CS, SC & MZ**