



RESEARCH PROGRAM ON  
Climate Change,  
Agriculture and  
Food Security



## SUMMARY

This group logbook is designed to facilitate the recording of the PSP-group's observations and monitoring of weather, management, and impacts on farming. Intended for facilitators, this logbook complements or supersedes farmers' individual logbooks and records a minimum of information. A more comprehensive list is available in the PSP-Facilitator guidelines. This logbook aims to:

- Encourage farmers to document forecasted and observed weather conditions in different seasons;
- Document observations and management of agricultural practices and reflect on agro-advisories developed in the PSP process;
- Document social learning; and
- Document interventions for project monitoring and evaluation purposes.

The logbook functions as a topic guide for facilitating the PSP meetings, and covers weather forecasts, farm management, and impacts. Ideally, the PSP logbook should document individual farmer's actions. Here, we test the group's responses with individual deviations. Similar information can be collected from a control site.

## LOGBOOK OVERVIEW

1. Forecast: Weather forecast – seasonal and updated
2. Farm management
3. Impacts
4. Other feedback

## GLOSSARY

**Forecast:** A (weather) forecast is a qualified guess, built on the best tools available, for a particular place and period. It can use probability (likelihood) of the forecasted occurrence. A seasonal forecast covers one season (often 3-6 months) and provides information that is important for farmers' decisions such as average, minimum, and maximum temperature; total rainfall and number of rainy days; and risk of storm.

**Participatory Scenario Planning (PSP):** Multi-stakeholder approach to enable access to seasonal weather forecasts, understanding and interpreting forecasts and associated uncertainty into locally relevant information that is useful in decision making, and planning (interpretation of seasonal forecast into actionable advisories, such as a bulletin, for the community), and sharing climate information from both local and scientific knowledge. The PSP can be done before planting (Pre-PSP), during the crop season (Mid-PSP), and towards the end of or after the season (Post-PSP).

**Facilitator:** the facilitator can vary depending on the specific contexts and capacities. In the ACIS project, the facilitators are project staff, or trained extension officers, farmer union officers, leaders of Village Savings and Loan Association, and village leaders.

**The participants:** Male and female farmers of different ethnic backgrounds who have read or received the Bulletin (seasonal forecast and agro-advisories) that was produced in the PSP workshop.

This Group Logbook for Facilitator was developed as part of the project "Using climate service to enhance the adaptive capacity of women and ethnic minorities in Southeast Asia (ACIS)", which is co-implemented by World Agroforestry Centre (ICRAF), CARE International in Vietnam, Laos and Cambodia (CARE) from 2015-2018. This project is under Flagship 4 - Climate information services and climate-informed safety nets, CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS), which is carried out with support from CGIAR Fund Donors and through bilateral funding agreements. For details please visit <https://ccafs.cgiar.org/donors>. The views expressed in this document cannot be taken to reflect the official opinions of these organisations.

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## PARTICIPATORY SCENARIO PLANNING (PSP)

Location: .....

Date:.....

Season: .....

Year:.....

Number of participants : ..... Male:..... Female:.....

Note taker: .....

### 1. FORECAST

#### SEASONAL FORECAST (Pre-PSP, Mid- and Post-PSP)

1.1. How would you describe the weather this season compared with the same season last year or some other year(s)?

*\*Note what you compare the forecasted information with: e.g. normal (considering the average of many years), or of previous year, or this can be the same period as used in the forecast/agro-advisory*

Indicator	How the weather this season compares with that of.....*		
	Higher/ more than (number of participants agreed)	Similar/the same (number of participants agreed)	Lower/ less than (number of participants agreed)
<i>Example: Temperature</i>	<i>Higher than this season in 2016 (35 of 42 participants agreed)</i>	<i>Similar to this season 2016 (5 of 42 participants agreed)</i>	<i>Lower than this season 2016 (2 of 42 agreed)</i>
Temperature			
Rainfall			
Wind/storms			
Other information	<i>Example: This year, temperatures in May are higher than the temperatures from previous 2-3 years. It was hot for 7 days continuously, and there was no rain for 2 weeks in May. Crops (peanut, orange) wilted. Many wells dried up and we did not have enough water for our livestock. Mr. Thai used drip irrigation 4 times in May instead of 2 times in the same season in 2016.</i>		

1.2. Did you hear/read a seasonal forecast and agroadvisory before or during the crop season? From where and/or what sources?

Source(s)	Number of participants agreed	Source(s)	Number of participants agreed
Loud speaker		Village leader	
Bulletins in the information boards of village or commune		Village Saving and Load Association (VSLA) leader	
Extension officer		Other(s)	

1.3. Do you remember what seasonal forecast was provided in previous PSP? (*Note what information the participants remember; use the previous bulletin to discuss with participants later on*)

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1.4. Was the bulletin (*seasonal forecast and agro-advisories*) useful and easy to understand?

Indicator	(mark X on your choice)	Why did you give that score?	What can be improved?
Ethnic language	<input type="checkbox"/> Very easy to understand <input type="checkbox"/> Easy to understand <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat difficult to understand <input type="checkbox"/> Very difficult to understand		
Technical Language	<input type="checkbox"/> Very easy to understand <input type="checkbox"/> Easy to understand <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat difficult to understand <input type="checkbox"/> Very difficult to understand		
Layout and design	<input type="checkbox"/> Very easy to understand <input type="checkbox"/> Easy to understand <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat difficult to understand <input type="checkbox"/> Very difficult to understand		
Content	<input type="checkbox"/> Very relevant <input type="checkbox"/> Somewhat relevant <input type="checkbox"/> Neutral <input type="checkbox"/> Somewhat irrelevant <input type="checkbox"/> Very irrelevant		

1.5. What part of the advisories/seasonal information have you applied/referenced after receiving information from the bulletin?

Information in the advisory	Number of participants who used the information provided	What was it particularly useful for? <i>(e.g. specify more details: used information, changes from which dates/ crops to which dates/ crops, etc.)</i>
Seasonal forecast		
Seasonal calendar/ Planting date		
Crops/varieties selection		
Fertilizer application <i>(amount, time, method)</i>		
Pest and disease prevention and control <i>(amount, type, time, method)</i>		
Other		

1.6. How many of you **HAVE NOT** applied/referenced to any information in the bulletin? Explain why?

Reasons for not applying/referencing	Number of participants agreed
The recommendations were inappropriate due to inaccurate forecast	
Farmers do not understand the language	
Farmers were in lack of labour	
Farmers were unable to apply the recommendations due to lack of technical guidance	
Other, specify:	

### UPDATED WEATHER FORECAST (Mid-PSP, Post-PSP)

1.7. How many of you hear/see a weather forecast? How often? Where did you get the forecast from?

<b>Frequency</b>	<b>Number of participants saying a particular frequency</b>	<b>Sources</b> <i>(TV, radio, newspaper, loud speaker, online...)</i>
Every day		
2-3 times/ week		
Every week		
Every month		
Other, specify:		

## 2. MANAGEMENT (Mid-PSP, Post-PSP)

2.1. How did you change your farm plans based on the updated weather forecast?

Changes in management/plan* Based on updated weather forecast	What crops/ trees/ livestock?	Number of participants who did the same
<i>Example: Planted rice seeds earlier than normal as advised by commune extension (to avoid cold spell period from 28/12/2016 - 3/1/2017)</i>	Rice	30 of 40

**\*Examples of changes in management/plan**

- **Actions before crop season:** Variety or crop selection (shorter duration, longer duration); timing of planting (earlier, later); location of planting; if crop failure: selection for replanting or following planting period
- **Actions during crop season:** Fertilizer (amount, timing); pesticide (amount, timing); irrigation needs; harvest time
- **Actions after crop season:** Land preparation for next planting season; crop residue; storage and market decisions

2.2. In one household, who has the ultimate decision-making power in agricultural-related activities?

Agricultural activities	Number of participants agreed that the ultimate decision is made by...			
	Husband	Wife	Husband and wife	Other (specify)
<i>E.g. crop variety selection</i>	<i>20 of 40</i>	<i>10 of 40</i>	<i>10 of 40</i>	<i>10 of 40 (mother-in-law)</i>
Crop/ variety selection				
Planting date				
Fertilizer application <i>(type, amount, method)</i>				
Pesticide application <i>(type, amount, method)</i>				
Selling crop products				
Other activities, specify:				
Other comments (if any)				



### 3. IMPACTS (Mid-PSP, Post-PSP)

3.1. Compare the yield and quality of crops to previous season/year (compare the same season)

The information in the table below can be collected before or after Post-PSP workshop, depending on the context and capacity.

- If the information can be collected before the Post-PSP workshop, the facilitator can conduct group discussion to explain the collected results.
- If the information has not been collected before the Post-PSP workshop, the information can be collected based on average values agreed by all participants to facilitate group discussion on the collected results.
- Later on, the facilitator will distribute this form to the participants or collect information from individual household at the end of Post- PSP workshop.

Name of farmer	Name of crop	Ethnic group	Household status (Poor, near-poor, non-poor)	Distance from home to commune center	Area (specify unit)		Yield or production (specify unit/area)		Compare the same season this year with previous year* more than/ higher (+), same (0), less than/ lower (-).		
					This year	Previous year	This year	Previous year	Pests and disease outbreak	Use of pesticide	Use of fertilizer

\* If possible, please quantify pesticide and fertilizer

3.2. Do you know why there were differences in pests and diseases this year, compared to the previous year?

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3.3. Do you know why there were differences in the fertilizer applications this year, compared to the previous year?

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3.4. Why do you think the crop yields were different this and last year? (e.g. how, when, or where crops were grown?)

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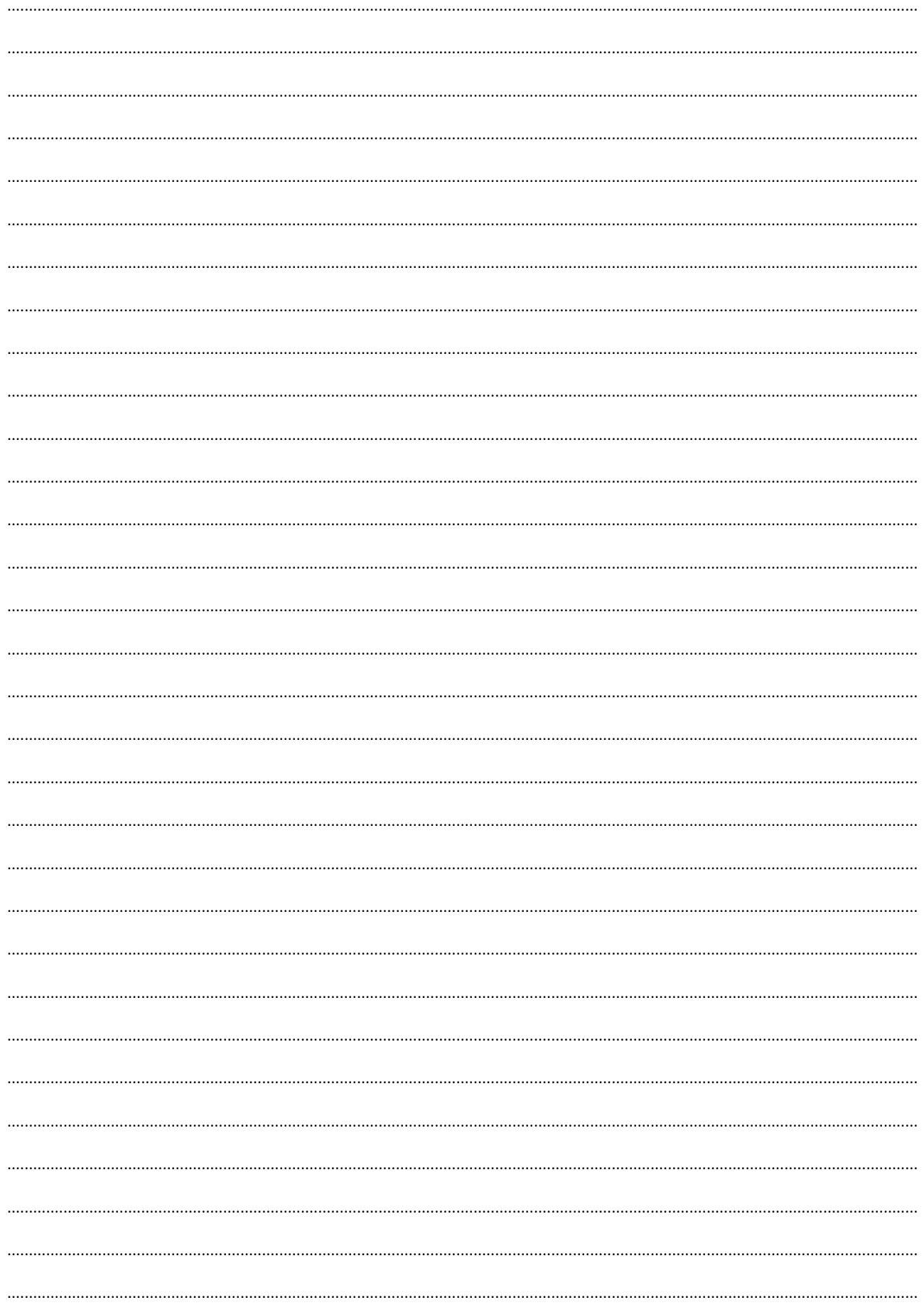
.....

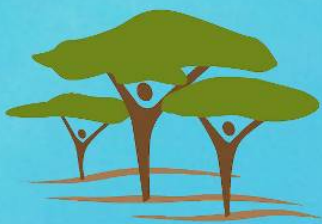
3.5. Did the weather forecast BEFORE the crop season benefit your productivity? How/Why not?

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