

CS-MAP EVALUATION REPORT

Prepared by: Pham Thanh Van

1 General information

1.1 Context

Climate-Smart Mapping and Adaptation Plan (CS-MAP) is an innovative of CGIAR Research Program on Climate Change, Agriculture and Food Security in Southeast Asia (CCAFS-SEA), has been developed and implemented in different regions of Viet Nam from 2017 to 2021. CS-MAP is based on the combination of participatory mapping method and GIS advances, in order to provide the local policy makers a quick, low-cost and easy-to-adopt tool to identify climate risks, their impacts to agriculture and making adaptation plan. Initiated since the El Nino 2016 – 2016, CGIAR had conducted the assessment trips to Mekong River Delta, Central Highlands and South Central Coast provinces to assess the impact of El Nino period to agriculture, adaptation measures being applied, their effectivity and the gaps. Two of the important findings were the lack of cooperation among agencies in the province level in early-warning and lack of adaptation preparation before the disaster (CCAFS SEA, 2016).

In 2018, CS-MAP is completed and transferred to Department Agriculture and Rural Development (DARD) of 13 provinces of Mekong River Delta. During 2020 – 2021, Department of Crop Production (DCP) and CCAFS has been cooperated to scale out CS-MAP for rice production to other regions of Vietnam namely 8 provinces of South Central Coast (SCC), 12 provinces of Northern Midlands and Delta (NMD), 2 provinces of Central Highlands; and for fruit tree production piloted in 2 districts of Hoa Binh and Son La provinces in North West region. Those productions were handed over to the provinces in September 2020 (4 southern provines of SCC), December 2020 (12 provines of NMD) April 2021 (4 northern provines of SCC), June 2021 (2 CH provinces) and September 2021 (2 piloted didstrict of Northwest).

Table 1: Timeline of CS-MAP in Viet Nam

	Mekong River Delta	South Central Coast and Central Highlands	Northern Midlands and Delta/ North West
Mid 2016	CGIAR assessment	CGIAR assessment	-
2017 – 2019	CS-MAP in provincial level developed and handed over	-	-
2019	CS-MAP applied to Winter-Spring season 2019-2020	-	Developing concept for CS-MAP in NMD
Jan 2020 – July 2020	CS-MAP training and updates for 7 provinces Downscaling in district level	CS-MAP development for 4 southern SCC provinces	CS-MAP development

July 2020 – June 2021		CS-MAP development for 4 southern SCC provinces and 2 provinces in CHs	Hand-over to DARDs Applied to adjust cropping calendar in Winter-Spring 2020- 2021
July 2021 – December 2021		CS-MAP training for 10 provinces	Pilot CS-MAP for fruit tree in Hoa Binh and Son La provinces

This report provides a brief evaluation based on the survey organized from June to September 2021.

1.2 Evaluation methodology

The main methods used is Key Informant Interview. In condition of COVID-19 outbreak in Viet Nam, it was not possible to directly interview the officials in each province, the questionnaire was prepared and sent to DARDs by official letter from DCP. The target participants as following structure:

- At least 1 response from each Provincial Sub-department of Crop Production
- At least 1 response from each Provincial Sub-department of Water Resource
- At least 1 response from each Company that operates and manages hydrological facilities in the provinces.
- At least 1 response from each District PC's office of agriculture
- At least 1 response from each District Central of Agricultural Services

The questionnaire (As in Annex 1) was sent in June 2021 to 41 provinces and received responses until September 2021. The total responses received were 116 from 23 provinces, with the details in next section.

2. Results

2.1. Characterizations of respondents

In total, there were 116 responses was collected from 23 provinces out of 41 provinces requested. As shown in Figure 1a, most of the respondents came from Mekong River Delta (MRD), following by South Central Coast and Central Highlands combined (SCC-CH), and Northern Midlands and Delta (NMD). By provinces, there are 10 out of 13 provinces from MRD, 7 out of 10 provinces from SCC-CH and 8 out of 12 provinces from NMD. In average, each province from MRD, SCC-CH and NMD returned 8.7, 3 and 1.3 responses, respectively. This situation reflects the length of timeline of CS-MAP in each region. CS-MAP were already implemented and applied in MRD for more than 2 years with full documentations, trainings and workshops, while just has been introduced in other 2 regions in a half of year. Most of the responses came from the district staffs, accounted for 66% of total responses (figure 1b).

Figure 1 c, d, f show that the level of respondents is relative high. More than half of the respondents are in management position, two-third of them has more than 5 years in current position and more dramatically, 79% of all respondents has more than 5 years experience on cropping and hydrological system in there area.

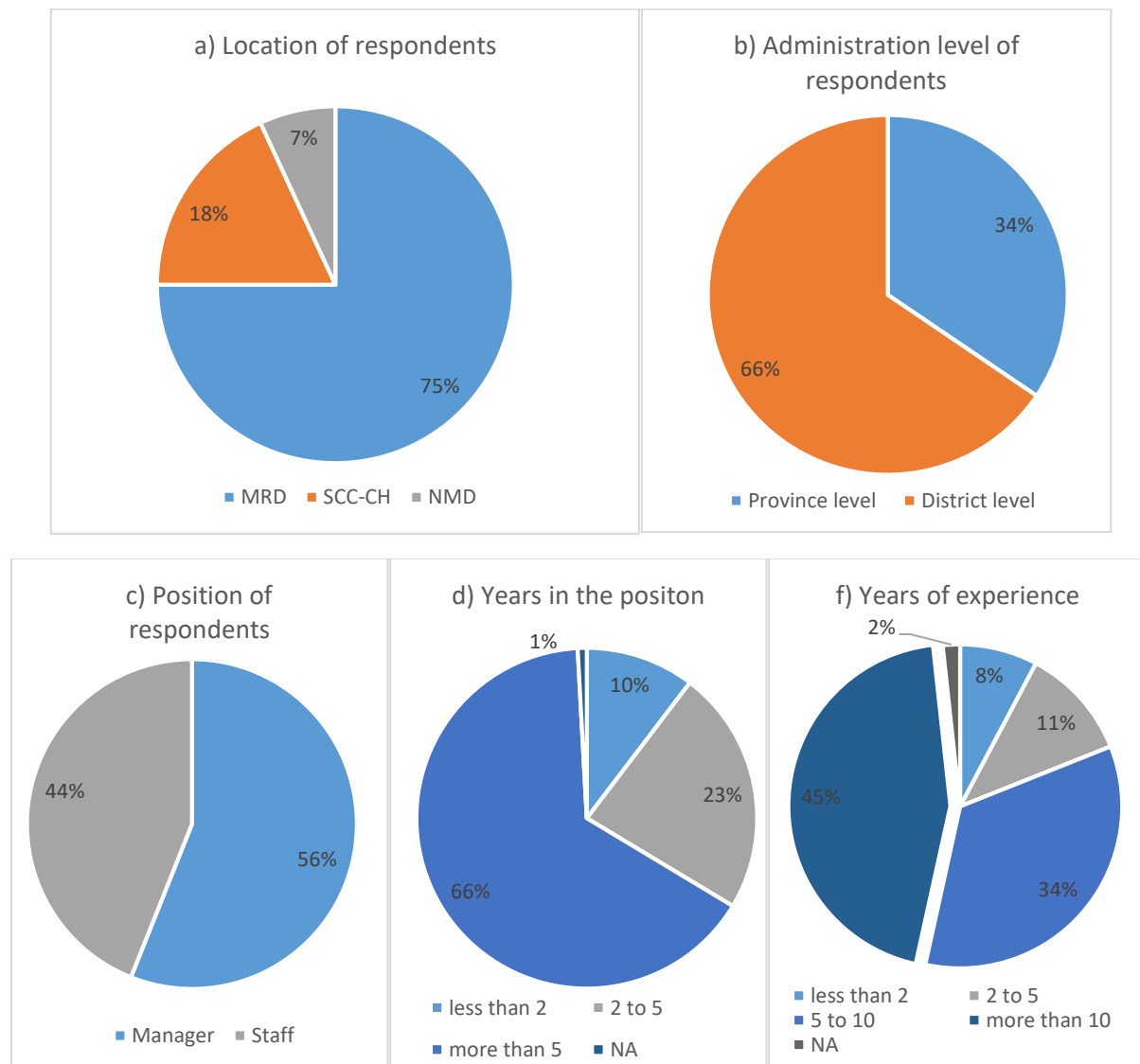


Figure 1: Characterization of the respondents

2.2. Evaluation of CS-MAP transfers process in locality

Although a large portion of respondents are satisfied with the process of handing over CS-MAP production to local agencies, there are many respondents expected more detail in CS-MAP production and guidelines. In terms of information in CS-MAP production, respondents who answer “Do not know” mentioned that they did not receive CS-MAP production, or received but have not applied in their work. For the later, there are also different reasons, namely the area is not affected by climate risk in recent years, or just received CS-MAP in last some months and did not used yet. Some of them misunderstood that CS-MAP has to be updated year by year to give exact recommendations, some others supposed that it is

needed to use CS-MAP in specific GIS software, then they are not qualified to use it. In terms of not completed guidelines/manual, most of the unsatisfied opinions say that the training is too short or they did not receive any training to fully understand CS-MAP. A significant portion of respondents said they could not access the guideline/manual at all.

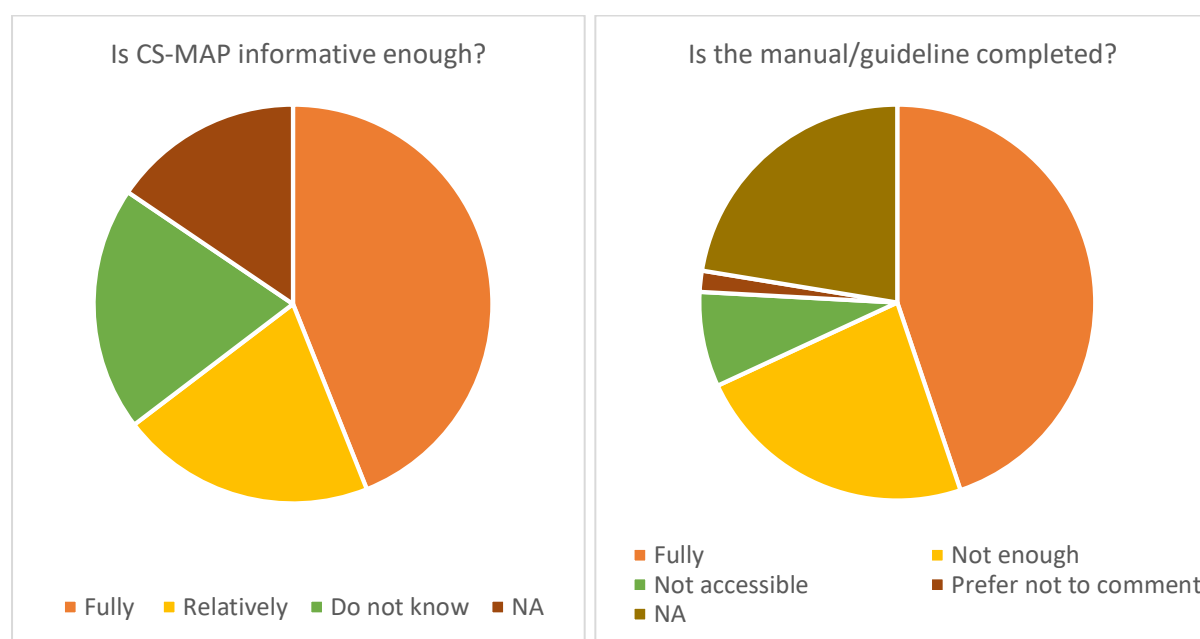


Figure 2: Assessment of handing over process

However, any of those opinions reflects the low-effective transferring process from CCAFS – DCP to the provinces and districts. There are several reasons for this situation, that we have explored during our workshop, training and field trip in recent years, some to be named as below:

- Different people who attended CS-MAP workshop, who attended trainings and who answer the surveys;
- New staff in the position in charge of crop production in the area in recent years/months;
- Official letters on handing over the maps and guideline are not fully transferred from provincial DARD to the respective agencies, especially in districts;
- Due to COVID-10 outbreaks, the delivery of hard-copied maps and organization of trainings was not possible, therefore in SCC-CH, provincial staffs did not fully receive the CS-MAP production and documentations.

2.3. CS-MAP in production planning in locality

In the beginning of this section, we asked the respondents on how they made crop production recommendations before CS-MAP implementation. Nearly 79% of total respondents said included directions from above level agencies as the basis for their work, followed by the recommendations from professional agencies such as weather stations, hydrological institutes, sub-department of Water resource etc. Staffs' own experience and

local tradition on cultivations also played important roles, with around 40% among the answers. Notably, only one-third of total respondents i.e. 29 responses, said they only based on one criteria, in which 18 use only the directions from above level agencies (Figure 2a, b).

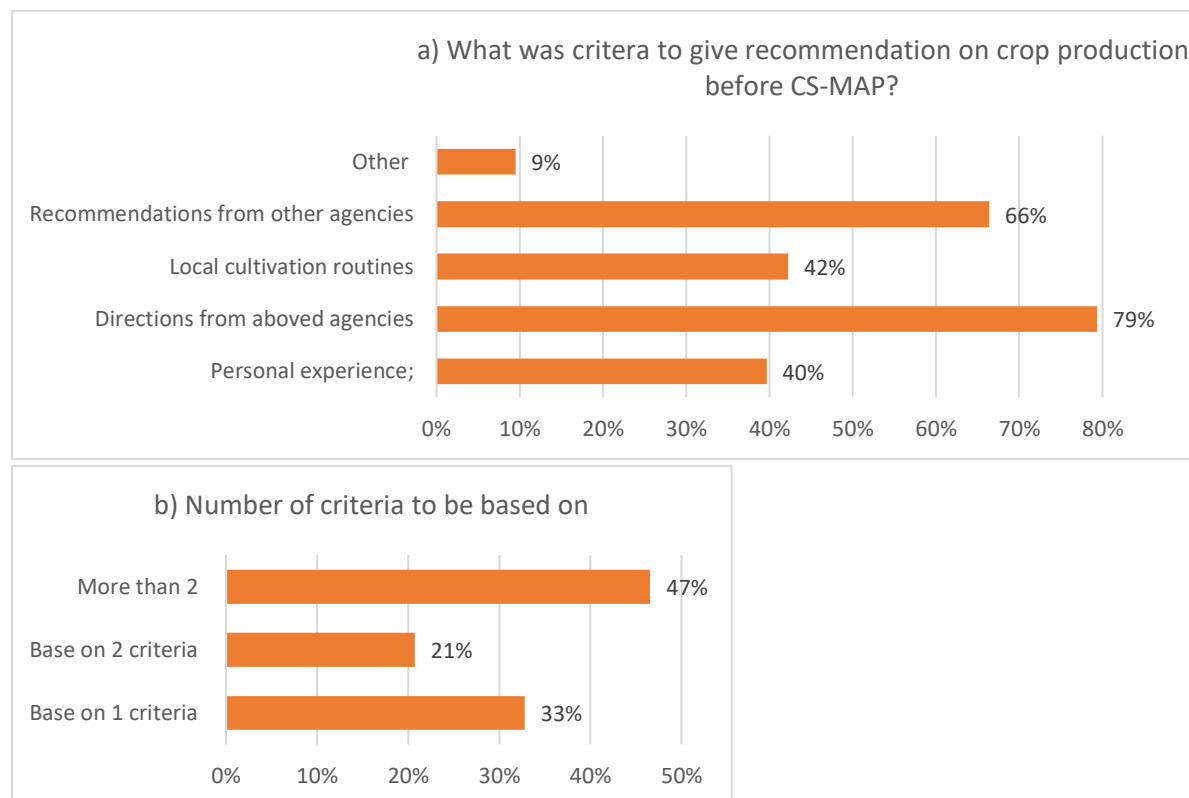


Figure 3. Basis for recommendation before CS-MAP

In Figure 4, the interviewees identified how they assess the usage of CS-MAP in their daily work as well as potential application. There were 79% of total respondents said CS-MAP can support their daily job in making production plan based on the identified risk area and proposed cropping calendar and/or adaptation measures. Unsurprisingly, there are significant number of respondents mentioned that they can use CS-MAP as the basis to propose the conversion of land use change in high risk area with low rice production yield. Other application can be named as the document for the new staff in position to quickly learn about local condition of agriculture and climate risk, to archive information on impact of disasters and for other referencing purposes. There are 19% gave no answer or have not applied yet, since there are some provinces have just received CS-MAP production such as Gia Lai, Dak Lak, Binh Dinh, Da Nang, Quang Nam etc.

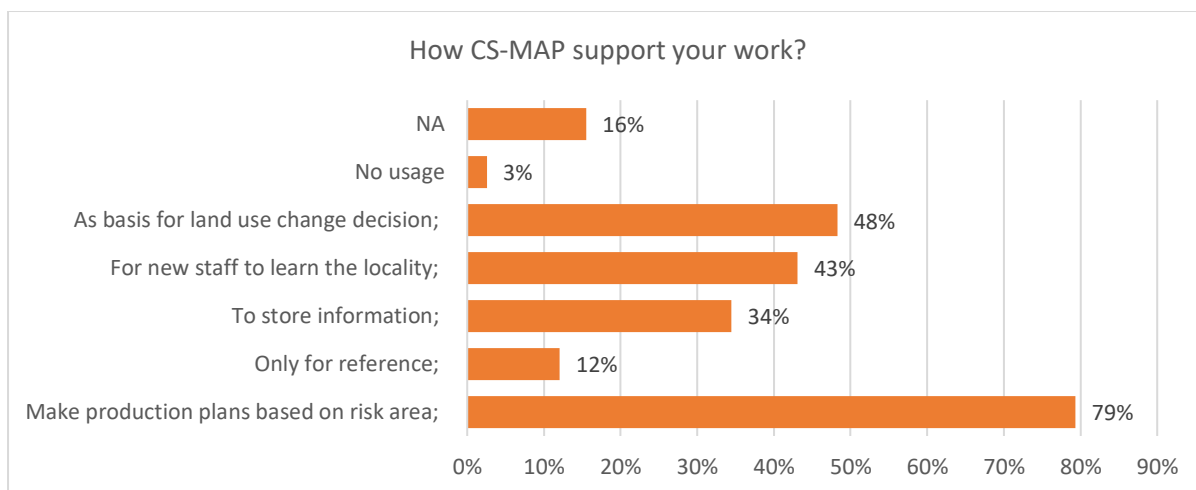


Figure 4: How CS-MAP support local staffs

In details, we asked the interviewees to recall the last two cropping season i.e. Winter-Spring 2020-2021 and/or Summer-Autumn 2021. As mentioned above and details in Table 1, many provinces in South Central Coast and Central Highland regions have just received CS-MAP production and have not applied in practice. As a results, there are 16% of the respondents said they have not received the production due to the ineffective handing over processes and 18% gave no answers, mostly with same reason. Notably, some respondents from Kien Giang, Soc Trang and Tra Vinh provinces said they have not applied broadly CS-MAP in practice because it is not as convenient as traditional routine, and/or they did not have plan to apply yet. That portion accounts for 9% (*No because not convenient*) and 7% (*Not yet*) of the answers. In summary, the compliance of “No” answers accounts for 61% of the total, while pure “Yes” answers only accounts for 39%. However, because of many objective reason and time constrains, this result does not reflect completely the potential of CS-MAP itself.

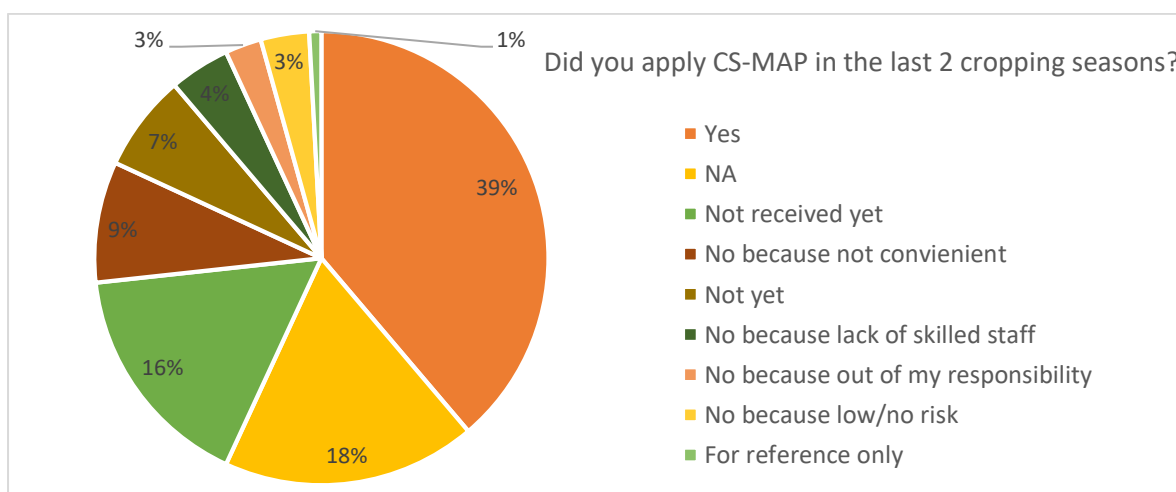


Figure 5: The application of CS-MAP in last 2 cropping seasons

2.4 Users' expectations

To understand the expectation of the end-users, we asked local staff on what support do they need to apply CS-MAP better in the future (Question 3.5) and how CS-MAP can be improved (Question 3.6).

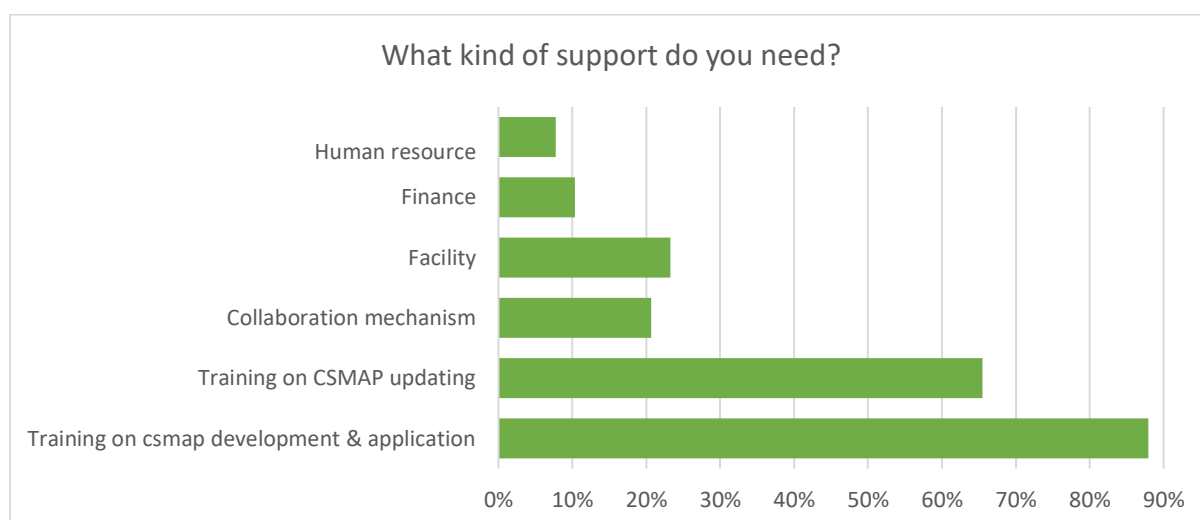


Figure 6: Supports needed to use CS-MAP better in the future

In the former question, nearly 90% of respondents mentioned training on CS-MAP methodology, application and updating. Although there were a number of training organized, there were only approximately 200 participants. CCCAFS and DCP aimed those training to be a ToT, however the effectivity was not as expected. However, on the other hand, this showed that local staffs are willing to get more skillful and to be able to replicate the methodology in the future. About 20 – 25% of respondents mentions Collaboration mechanism and Facility as the supporting demand, while finance and human resource are the least answers (Figure 6). In term of facility, most of the answers are computers or more powerful computers to update CS-MAP in GIS software. Together with it, in term of human resource, they also mentioned that they need a specific personnel to work on GIS, mapping who will be in charge of updating information of CS-MAP as well. In many occasions, local staffs complained that there are too few technical personnel in each agency who have to be manage a huge amount of work, so that it is difficult to learn and use a new tool/methodology.

As a brainstorming question, people added a lot of ideas in later question on how to improve CS-MAP, and be classified into some categories as be seen in Figure 7. It is obvious that people always want to integrated all information into a platform so that it is easy to refer the related information. However, as the purpose of CS-MAP is to provide a light, easy-to-implement, low-cost and quick tools for local policy-makers to adapt with climate risk, it is more reasonable to keep it simple. In an other hand, the information bellow is an useful source for researcher to develop an integrated agriculture management system in the future, e.g. in a digital platform instead.

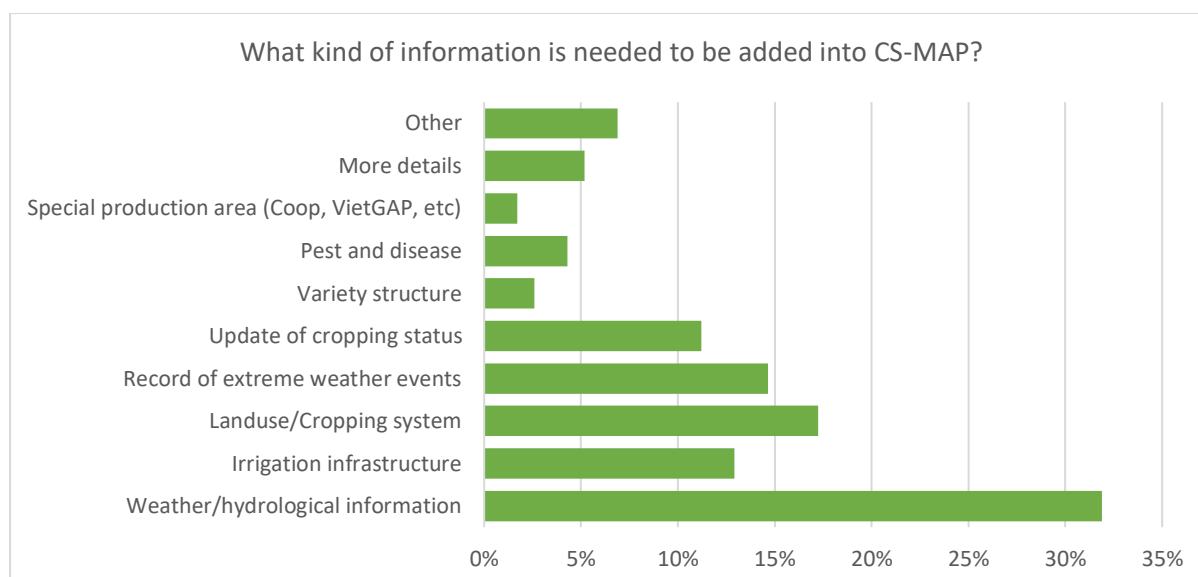


Figure 7: Information need to be added to improve CS-MAP

In addition to this question, people also pointed out that there are many information need to be provided by outside agencies, therefore it is needed to have a better cooperation mechanism with local meteorological station, provincial DONRE, District People's Committees, Hydrological Facility Operation Companies etc.

3 Discussion and Conclusion

In the condition of COVID-19 outbreaks in Viet Nam in year 2021, especially serious during April – September, the direct workshop, training and interviewing with local partners were not possible. This affect a lot on the development and implementation of CS-MAP, since the back-bone of this tool is participatory approach. CCASF and DCP tried the best to get local staff involved as much as possible through online workshop and training with experts. Time was also a big constrains when CCASF need to be closed in the end of 2021, thus we were not able to delay any more. As the results, there are a blur part of CS-MAP picture showed up in the reports, mostly related to the newly upscale regions i.e. SCC, CHs and NMD.

However, it is also clear that CS-MAP is highly appreciated by local staff who are very familiar with the local condition of crop production and hydrometeorology, and was helpful for them. We also can see potential of CS-MAP application as the documentation and scientific basis for landuse conversion.

Last but not least, Viet Nam's agriculture is facing more and more severe climate risks, and the expectation of local staffs are high. CS-MAP should not be more complicated in term of integrated information and approach, however, CS-MAP can be input for other innovation in the future, in order to support local policy makers better, leading to better bottom-up adaptation strategies./.

4. Reference

CGIAR Research Program on Climate Change, Agriculture and Food Security – Southeast Asia (CCAFS SEA). 2016. *Assessment Report: The drought and salinity intrusion in the Mekong River Delta of*

Vietnam. Hanoi, Vietnam: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS).

5. Annex

5.1 Questionnaire (Vietnamese)

PHIẾU KHẢO SÁT

KHẢ NĂNG VÀ HIỆU QUẢ ỨNG DỤNG

BỘ BẢN ĐỒ RỦI RO VÀ KẾ HOẠCH THÍCH ỨNG VỚI BIẾN ĐỔI KHÍ HẬU TRONG SẢN XUẤT LÚA (CS-MAP)

....., ngàytháng.....năm.....

Trong những năm qua (2017 - 2021), Cục Trồng trọt, Chương trình Nghiên cứu về Biến đổi khí hậu, Nông nghiệp và An ninh lương thực (CCAFS) Đông Nam Á cùng với các đối tác đã xây dựng Bản đồ rủi ro và Kế hoạch thích ứng với biến đổi khí hậu (CS-MAP) tại các tỉnh thuộc Đồng bằng sông Cửu Long, Duyên hải Nam Trung bộ và Trung du và Đồng bằng Bắc Bộ. Các bản đồ này cùng bộ dữ liệu số đã được chuyển giao để các tỉnh sử dụng trong lập kế hoạch sản xuất lúa trong thời gian qua. Bảng khảo sát này nhằm mục đích thu thập phản hồi của địa phương, giúp cho Cục Trồng trọt và Chương trình CCAFS có cơ sở lập kế hoạch nhân rộng hoặc cải tiến phương pháp. Vì vậy, mong anh/chị đọc kỹ và trả lời các câu hỏi dưới đây chi tiết nhất có thể.

Thông tin cá nhân sẽ của anh/chị được bảo mật và chỉ sử dụng trong các ấn phẩm hoặc báo cáo khi có sự đồng ý bằng văn bản của anh/chị.

☐ Tôi đồng ý để Cục trồng trọt và Chương trình CCAFS sử dụng các thông tin trong mục 1 dưới đây trong các báo cáo và xuất bản phẩm của dự án. (ký, ghi rõ họ tên dưới đây)

1. Thông tin chung

Họ tên:

Đơn vị:

Vị trí công tác:

2. Về chỉ đạo sản xuất

2.1. Anh/chị đã công tác tại vị trí trên được bao nhiêu năm:

☐ < 2 năm

☐ 2- 5 năm

☐ >5 năm

2.2. Anh/chị có kinh nghiệm về hệ thống canh tác lúa và/hoặc thủy lợi của địa phương bao nhiêu năm (tính năm công tác):

☐ < 2 năm

☐ 2- 5 năm

☐ 5 - 10 năm

☐ >10 năm

2.3. Anh/chị có tham gia tham mưu, chỉ đạo hoặc quản lý về kế hoạch sản xuất lúa tại địa phương hay không?

☐ Là lãnh đạo/người đứng đầu/thủ trưởng cơ quan, đơn vị

☐ Tham mưu cho đơn vị quản lý

☐ Tham mưu cho thủ trưởng cơ quan

- ☐ Quản lý trực tiếp
- ☐ Đóng góp ý kiến
- ☐ Khác, xin nêu rõ:

2.4. Anh/chị thường dựa vào yếu tố nào để đề xuất và/hoặc đưa ra khuyến cáo đầu vụ:

- ☐ Kinh nghiệm tích lũy nhiều năm
- ☐ Văn bản chỉ đạo của đơn vị cấp trên.
- ☐ Tập quán/ thói quen canh tác tại địa phương
- ☐ Khuyến cáo hoặc dự báo của các đơn vị hỗ trợ (thủy lợi, công ty thủy nông, trạm khí tượng thủy văn)
- ☐ Khác, xin nêu rõ:

2.5. Anh/chị có gặp khó khăn trong công việc khi mới bắt đầu, chưa có kinh nghiệm không?

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2.6. Nếu anh/chị chuyển công tác, công việc được bàn giao cho cán bộ mới như thế nào?

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2.7. Theo anh/chị, bộ bản đồ CS-MAP có thể sử dụng để lưu trữ thông tin rủi ro khí hậu và chuyển giao kinh nghiệm địa phương cho cán bộ tiếp quản vị trí công tác hay không và tại sao?

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3. Đối với bộ bản đồ CS-MAP thí điểm tại đơn vị của anh chị:

3.1. Theo anh/chị, bộ bản đồ đã đầy đủ thông tin và có thể sử dụng được chưa?

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3.2. Theo anh/chị, hướng dẫn sử dụng bản đồ (trong Công văn chuyển giao) và hướng dẫn của đơn vị cấp trên (Cục Trồng trọt, Chi cục Trồng trọt và Bảo vệ thực vật tỉnh, Chi cục Thủy lợi) đã đầy đủ hay chưa?

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3.3. Theo anh/chị, bản đồ CS-MAP có thể hỗ trợ các công việc nào sau đây trong quản lý sản xuất lúa cấp xã:

- ☐ Lập kế hoạch sản xuất lúa thích ứng dựa vào vùng nguy cơ
- ☐ Chỉ dùng để tham khảo chứ xã không có chức năng lập kế hoạch
- ☐ Dùng để lưu trữ thông tin
- ☐ Dùng cho cán bộ mới tiếp nhận công tác nhanh chóng nắm bắt địa bàn
- ☐ Làm cơ sở đề nghị chuyển đổi đất lúa sang loại hình canh tác khác (hoa màu, thủy sản, cây lâu năm) hoặc sang đất phi nông nghiệp
- ☐ Không thể dùng được (vui lòng nêu lý do)

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3.4. Vụ sản xuất lúa vừa qua (Đông Xuân 2020 – 2021 **và/hoặc** Hè Thu 2021), bộ bản đồ CS-MAP có giúp gì trong công việc của anh/chị hay không và tại sao?

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3.5. Theo anh/chị, để có thể sử dụng CS-MAP trong lập kế hoạch sản xuất trong tương lai, anh/chị cần hỗ trợ những gì?

- ☐ Tập huấn phương pháp CS-MAP và cách ứng dụng CS-MAP
- ☐ Tập huấn phương pháp chỉnh sửa bổ sung CS-MAP
- ☐ Cơ chế phối hợp giữa các đơn vị khác (xin nêu rõ là những đơn vị nào)

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- ☐ Hỗ trợ cơ sở vật chất (xin nêu rõ cần trang thiết bị gì)

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- ☐ Tài chính (xin nêu rõ mục đích)

- ☐ Nhân lực (xin nêu rõ vị trí cần bổ sung)

3.6. Theo anh/chị, để có thể cập nhật, bổ sung CS-MAP hàng năm cần những thông tin gì?

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3.7. Trong số những thông tin/dữ liệu ở câu 3.6, những thông tin/dữ liệu nào không thể thu thập ở địa phương và cần hỗ trợ của đơn vị cấp trên hoặc phối hợp với các cơ quan, đơn vị khác?

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4. Số liệu về thiệt hại do các sự kiện thời tiết cực đoan đã qua:

4.1. Thiệt hại do hạn hán và/hoặc xâm nhập mặn vụ Đông Xuân 2015 – 2016:

Tổng diện tích lúa vụ Đông Xuân 2015-2016: ha
Diện tích xuống giống sớm: ha
Diện tích bị ảnh hưởng hạn – mặn: ha
(Thiệt hại <30%:.....ha; Thiệt hại 30 – 70%: ha; Thiệt hại >70%:ha)

4.2. Thiệt hại do hạn hán và/hoặc xâm nhập mặn vụ Đông Xuân 2019 – 2020:

Tổng diện tích lúa vụ Đông Xuân 2019-2020: ha
Diện tích xuống giống sớm: ha
Diện tích bị ảnh hưởng hạn – mặn: ha
(Thiệt hại <30%:.....ha; Thiệt hại 30 – 70%: ha; Thiệt hại >70%:ha)

4.3. Thiệt hại do hạn hán và/hoặc xâm nhập mặn vụ Đông Xuân 2020 - 2021:

Tổng diện tích lúa vụ Đông Xuân 2019-2020: ha
Diện tích xuống giống sớm: ha
Diện tích bị ảnh hưởng hạn – mặn: ha
(Thiệt hại <30%:.....ha; Thiệt hại 30 – 70%: ha; Thiệt hại >70%:ha)

Xin chân thành cảm ơn các phản hồi của anh/chị.

5.2 List of respondents

ID	Province	District	Name	Unit	Position
1	An Giang	NA	Huỳnh Chí Linh	Provincial Department of Crop Production & Plant Protection	Vice head of office
2	An Giang	Châu Phú	Trần Văn Hào	Chau Phu District PC's Office of Agriculture	Staff
3	An Giang	Phú Tân	Lê Đình Huy	Phu Tan District PC's Office of Agriculture	Staff
4	An Giang	NA	Nguyễn Phước Thành	An Giang Provincial Centre of Agricultural Techniques & Services	Deputy director
5	An Giang	Tri Tôn	Võ Thị Ngọc Hiếu	Tri Ton District PC's Office of Agriculture	Staff
6	Bến Tre	NA	Ngụy Kim Yến	Provincial Department of Crop Production & Plant Protection	Staff
7	Bến Tre	Bình Đại	Châu Thị Lệ Quân	Binh Dai District PC's Office of Agriculture	Staff
8	Bến Tre	Ba Tri	Huỳnh Thị Bích Ngân	Ba Tri District PC's Office of Agriculture	Staff
9	Bến Tre	Giồng Tôm	Nguyễn Thị Phương Nga	Giong Tom District PC's Office of Agriculture	Staff
10	Bến Tre	Thạch Phú	Phan Duy Tranh	Thach Phu District PC's Office of Agriculture	Staff
11	Cần Thơ	NA	Từ Ngọc Hiếu	Provincial Department of Crop Production & Plant Protection	Staff
12	Đồng Tháp	NA	Nguyễn Ngọc Thiều	Provincial Department of Crop Production & Plant Protection	Vice head of office
13	Đồng Tháp	NA	Trần Lâm	Provincial Department of Water Resource	Staff
14	Đồng Tháp	Tháp Mười	Trần Đình Đăng Khoa	Thap Muoi District Centre of Agricultural Techniques & Services	Deputy director
15	Đồng Tháp	TP Cao Lãnh	Lê Văn Chính	Cao Lanh District Centre of Agricultural Techniques & Services	Staff
16	Đồng Tháp	Châu Thành	Phạm Văn Tâm	Chau Thanh District Centre of Agricultural Techniques & Services	Staff
17	Đồng Tháp	Tân Hồng	Đỗ Cao Chiêm	Tan Hong District Centre of Agricultural Techniques & Services	Director
18	Đồng Tháp	Thanh Bình	Nguyễn Thành Thửa	Thanh Binh District Centre of Agricultural Techniques & Services	Staff
19	Đồng Tháp	Tp. Hồng Ngự	Lê Thanh Phong	Hong Ngu District Centre of Agricultural Techniques & Services	Chief Technical
20	Đồng Tháp	Tam Nông	Nguyễn Anh Tàu	Tam Nong District PC's Office of Agriculture	Vice head of office
21	Đồng Tháp	Hồng Ngự	Võ Văn Xuyên	Hong Ngu District PC's Office of Agriculture	Staff
22	Đồng Tháp	Cao Lãnh	Nguyễn Thị Ngọc Yến	Cao Lanh District PC's Office of Agriculture	Vice head of office

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23	Đồng Tháp	Lấp Vò	Trần Văn To	Lap Vo District PC's Office of Agriculture	Vice head of office
24	Đồng Tháp	TP Sa Đéc	Phan Thị Hoàng Anh	Economic Office of Sa Dec city	staff
25	Đồng Tháp	Lai Vung	Huỳnh Văn Tồn	Lai Vung District Centre of Agricultural Techniques & Services	Vice head of office
26	Đồng Tháp	TP Cao Lãnh	Võ Minh Tiên	Economic Office of Cao Lan city	Staff
27	Hầu Giang	NA	Lương Ngân Hàng Xuyên	Provincial Department of Crop Production & Plant Protection	Staff
28	Hầu Giang	NA	Trần Thế Anh	Provincial Department of Water Resource	Staff
29	Hầu Giang	Vị Thủy	Trương Văn Trí	District PC's Office of Agriculture Vị Thủy	Professional management
30	Hầu Giang	TX Long Mỹ	Nguyễn Ngọc	Economic Office of Long My town	General staff
31	Hầu Giang	TP Ngã Bảy	Huỳnh Văn Nhựt	Economic Office of Nga Bay city	General staff
32	Kiên Giang	NA	Lê Thanh Hùng	Provincial Department of Crop Production & Plant Protection	Staff of the Cultivation Department
33	Kiên Giang	NA	Hồ Minh Tâm	Provincial Department of Water Resource	
34	Kiên Giang	An Biên	Võ Thị Nhanh	An Bien District PC's Office of Agriculture	Vice head of office
35	Kiên Giang	An Biên	Trang Kiên Bush	An Bien District Centre of Plant Protection	Head of Department
36	Kiên Giang	U Minh Thượng	Phạm Duy Tân	U Minh Thuong District PC's Office of Agriculture	Vice head of office
37	Kiên Giang	U Minh Thượng	Đặng Quốc Khởi	U Minh Thuong District Centre of Plant Protection	Head of Department
38	Kiên Giang	Vĩnh Thuận	Khưu Thế Nhã	Vinh Thuan District Centre of Plant Protection	Head of Department
39	Kiên Giang	Hòn Đất	Nguyễn Văn Khương	Hon Dat District Centre of Plant Protection	Head of Department
40	Kiên Giang	NA	Nguyễn Minh Hòa	Kien Luong District Centre of Plant Protection	Staff
41	Kiên Giang	Giang Thành	Nguyễn Minh Hoàng	Giang Thanh District Centre of Plant Protection	Staff
42	Kiên Giang	Rạch Giá	Phạm Văn Đức	Economic Office of Rach Gia city	Vice head of office
43	Kiên Giang	Rạch Giá	Lưu Thái Phi	Rach Gia District Centre of Plant Protection	Staff
44	Kiên Giang	Châu Thành	Lê Thị Kim Em	Chau Thanh District PC's Office of Agriculture	Vice head of office

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45	Kiên Giang	Châu Thành	Nguyễn Anh Tuấn	Chau Thanh District Centre of Plant Protection	Technical staff
46	Kiên Giang	Giồng Riềng	Đinh Thị Ngọc	Giong Rieng District Centre of Plant Protection	Technical staff
47	Kiên Giang	Tân Hiệp	Lê Văn Đứng	Tan Hiep District Centre of Plant Protection	Technical staff
48	Kiên Giang	Kiên Lương	Trần Xuân Phước	Economic Office of Kien Luong District	Staff
49	Long An	NA	Trần Thị Mộng Thi	Provincial Department of Crop Production, Plant Protection and Product Quality Management	Deputy Head of Sub-Department
50	Long An	NA	Nguyễn Thành Lập	Provincial Department of Crop Production, Plant Protection and Product Quality Management	Vice head of office - Cultivation Department
51	Long An	NA	Lê Trọng Hiến	Provincial Department of Rural Development and Water Resource	Staff
52	Long An	Thủ Thừa	Huỳnh Kim Vui	Thu Thua District PC's Office of Agriculture	Staff
53	Long An	Bến Lức	Nguyễn Minh Thanh	Ben Luc District PC's Office of Agriculture	Staff
54	Long An	Tân Trụ	Hồ Thông Minh	Tan Tru District PC's Office of Agriculture	Staff
55	Long An	Bến Lức	Nguyễn Văn Cơ	Ben Luc District Centre of Agricultural Techniques & Services	Deputy director
56	Long An	Cần Đước	Huỳnh Văn Đành	Can Duoc District Centre of Agricultural Techniques & Services	Member of the Board of Directors
57	Long An	Tân Trụ	Bùi Đức Bích	Tan Tru District Centre of Agricultural Techniques & Services	Team leader of planting and protecting plants
58	Long An	Tân An	Nguyễn Văn Minh	Tan An District Centre of Agricultural Techniques & Services	Deputy director
59	Sóc Trăng	NA	Ngô Thanh Loan	Provincial Department of Crop Production & Plant Protection	Vice head of office - Cultivation Department
60	Sóc Trăng	NA	Phan Trung Can	Provincial Department of Water Resource	Irrigation Works Management
61	Sóc Trăng	NA	Lê Anh Tuấn	Economic Office of Soc Trang city	Vice head of office - Cultivation Department
62	Sóc Trăng	Kế Sách	Vũ Bá Quan	Ke Sach District PC's Office of Agriculture	Head of Department
63	Sóc Trăng	Mỹ Xuyên	Lâm Văn Long	My Xuyen District PC's Office of Agriculture	Vice head of Cultivation office
64	Sóc Trăng	Trần Đề	Từ Hải Long	Tran De District PC's Office of Agriculture	Staff

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65	Sóc Trăng	Thanh Tri	Trần Trang Nhã	Thanh Tri District PC's Office of Agriculture	Vice head of office - Cultivation Department
66	Sóc Trăng	Châu Thành	Nguyễn Thị Như	Chau Thanh District PC's Office of Agriculture	Staff
67	Sóc Trăng	Long Phú	Nguyễn Thị Riêng	Long Phu District PC's Office of Agriculture	Staff
68	Tiền Giang	NA	Lê Thị Thanh Thúy	Provincial Department of Crop Production & Plant Protection	Staff
69	Tiền Giang	NA	Nguyễn Hữu Hòa	Irrigation Works Exploitation One Member Company Limited	Head of Technical Planning Office
70	Tiền Giang	Cái Bè	Trần Văn Định	Cai Be District PC's Office of Agriculture	staff
71	Tiền Giang	Cai Lậy	Nguyễn Thị Bé	Cai Lay District PC's Office of Agriculture	Staff
72	Tiền Giang	Tân Phước	Nguyễn Xuân Hải	Tan Phuoc District PC's Office of Agriculture	Staff
73	Tiền Giang	Châu Thành	Huỳnh Nghĩa Bình	Chau Thanh District PC's Office of Agriculture	Staff
74	Tiền Giang	Gò Công Tây	Bào Thanh Loan	Go Cong Tay District PC's Office of Agriculture	Vice head of office
75	Tiền Giang	Gò Công Đông	Nguyễn Thị Mỹ Thuận	Go Cong Dong District PC's Office of Agriculture	Staff
76	Tiền Giang	Gò Công	Nguyễn Thị Kim Cúc	Economic Office of Go Cong town	Staff
77	Tiền Giang	Cai Lậy	Dương Hiếu Hòa	Cai Lay District Centre of Agricultural Techniques & Services	Deputy director
78	Tiền Giang	Gò Công Đông	Trần Thanh Duy	Go Cong Dong District Centre of Agricultural Techniques & Services	Staff
79	Tiền Giang	Cai Lậy	Lê Anh Tuấn	Cai Lay District Centre of Agricultural Techniques & Services	Staff
80	Tiền Giang	Gò Công	Trần Nguyễn	Go Cong District Centre of Agricultural Techniques & Services	Staff
81	Tiền Giang	Cái Bè	Võ Thanh Hùng	Cai Be District Centre of Agricultural Techniques & Services	Team leader of planting and protecting plants
82	Tiền Giang	Tân Phước	Lê Thị Ngọc Hân	Tan Phuoc District Centre of Agricultural Techniques & Services	Staff
83	Tiền Giang	Gò Công Tây	Mai Đức Tuấn	Go Cong Tay District Centre of Agricultural Techniques & Services	Director
84	Tiền Giang	Châu Thành	Phan Văn Tâm	Chau Thanh District Centre of Agricultural Techniques & Services	Staff
85	Tiền Giang	Cai Lậy	Bùi Minh Trí	Economic Office of Cai Lay Town	Staff
86	Trà Vinh	NA	Nguyễn Hoàng Trung	Provincial Department of Water Resource	Head of Department

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87	Trà Vinh	NA	Lê Minh Nhựt	Irrigation Works Exploitation One Member Company Limited	Mining Management Department
88	Trà Vinh	Càng Long	Nguyễn Hồng Nương	Cang Long District Centre of Agricultural Techniques & Services	Director
89	Bình Định	NA	Lê Hoài Lam	Binh Dinh Provincial Department of Crop Production & Plant Protection	Head of Office
90	Bình Định	NA	Nguyễn Đức Thành	Binh Dinh Provincial Department of Water Resource	Head of Office
91	Bình Định	Phù Cát	Võ Đình Trí	Phu Cat district's Department of Agriculture and Rural Development	Staff
92	Bình Định	Vân Canh	Võ Thị Bích Cương	Van Canh district's Department of Agriculture and Rural Development	Staff
93	Gia Lai	An Khê	Phan Vĩnh Tấn	Economic Office of An Khe town, Gia Lai province	Vice head of office
94	Gia Lai	NA	Đồng Văn Quang	Gia Lai Irrigation Works Exploitation One Member Company Limited	Head of Office
95	Gia Lai	Ia Grai	Võ Xuân Thịnh	Ia Grai District Agricultural Service Center	Agricultural extension
96	Gia Lai	Kông Chro	Bùi Phong Tuyết	Kong Chro District Agricultural Service Center	Technical staff
97	Gia Lai	Krông Pa	Lê Thị Thanh	Krong Pa Department of Agriculture and Rural Development	NA
98	Gia Lai	Đak Đoa	Lê Tấn Hùng	Đak Đoa Department of Agriculture and Rural Development	Vice head of office
99	Ninh Thuận	NA	Nguyễn Thị Thiên Phương	Ninh Thuan Provincial Department of Crop Production & Plant Protection	Staff
100	Phú Yên	NA	Nguyễn Hữu Công	Phu Yen Provincial Department of Crop Production & Plant Protection	Staff
101	Trà Vinh	NA	Huỳnh Ngọc Diên	Tra Vinh Provincial Department of Crop Production & Plant Protection	Head of Office
102	Vĩnh Long	NA	Lê Thị Chính	Vinh Long Provincial Department of Crop Production & Plant Protection	Technical staff
103	Vĩnh Long	NA	Nguyễn Vĩnh Phúc	Vinh Long Provincial Department of Crop Production & Plant Protection	Head of Department
104	Hà Nam	NA	Vũ Thị Phương Dung	Ha Nam Provincial Department of Rural Development and Water Resource	Staff
105	Hưng Yên	NA	Đoàn Thế Hiệp	Provincial Department of Water Resource	Staff
106	Ninh Bình	NA	Hoàng Trọng Tiến	Ninh Binh Irrigation Works Exploitation One Member Company Limited	Head of Office
107	Ninh Bình	NA	Nguyễn Hữu Ngọc	Ninh Binh Provincial Department of Crop Production & Plant Protection	Head of Office
108	Ninh Bình	Hoa Lư	Vũ Thị Thanh Tuyết	Hoa Lu Department of Agriculture and Rural Development	Staff

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109	Hải Dương	NA	Vũ Minh Kiên	Hai Duong Provincial Department of Rural Development and Water Resource	Staff
110	Bắc Giang	NA	Phạm Minh Tú	Bac Giang Provincial Department of Crop Production & Plant Protection	Staff
111	Quảng Nam	NA	Lê Kim Hoàn	Quang Nam Provincial Department of Crop Production & Plant Protection	Staff
112	Đà Nẵng	NA	Phan Thị Bích Hạnh	Da Nang Provincial Department of Crop Production & Plant Protection	Head of Office
113	Đà Nẵng	NA	Nguyễn Huy Gia	Center for Natural Disaster Prevention, Control and Mitigation under Da Nang Irrigation Sub-Department	Deputy director
114	Đà Nẵng	Hòa Nông	Đặng Công Đào	Office Agriculture and Rural Development - Hoa Nong District People's Committee	Staff
115	Đà Nẵng	NA	Lê Thị Nga	Agriculture and Forestry Extension Center in Da Nang City	Vice head of office
116	Nam Định	NA	Nguyễn Văn Dũng	Agriculture and Forestry Extension Center in Nam Dinh City	Staff