

# PRE-SEMESTER BULLETIN

December 2020

**REGION IX - ZAMBOANGA PENINSULA** 



# Common pests and rice varieties planted in the region

TABLE 1. Commonly observed pests in the region for the 1st semesters of 2019 and 2020.

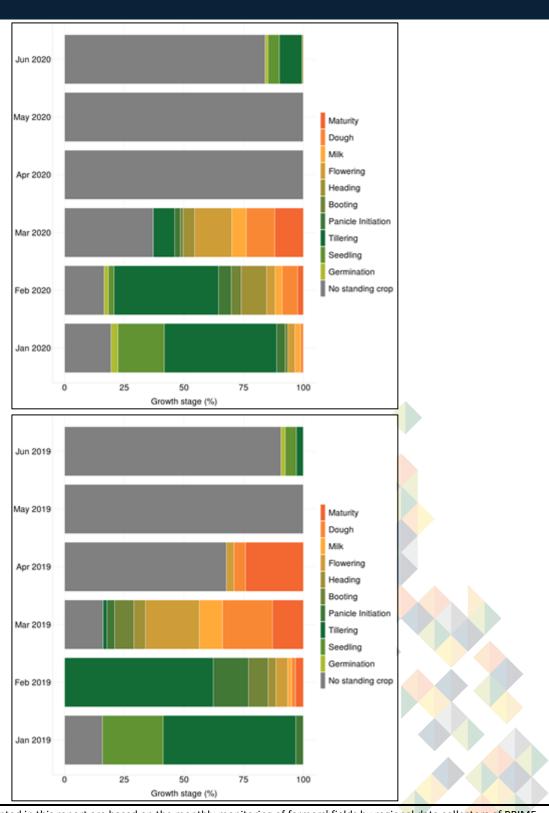


TABLE 2. Commonly planted varieties in the region for the 1st semesters of 2019 and 2020.





FIGURE 1. Percentage of crop growth stage of fields by month.





## Monitored fields and data collectors

Municipalities surveyed

Zamboanga del Norte: Dipolog City, Labason, and Sindangan

Zamboanga del Sur: Mahayag, Molave, and Tambulig

Zamboanga Sibugay: Diplahan, Siay, and Titay

**Monitoring date** 

January 2020 - June 2020

Number of monitoring fields

171

Data collectors

Aljavin Andah, Alvin Academia, Eugene Dolar, Gabriel Adrian Harrun Gregorio, Geodani Biri, Jing Torres, Lorivie Jamisola, Ma. Rven Elcamel, and Sara Ferrater

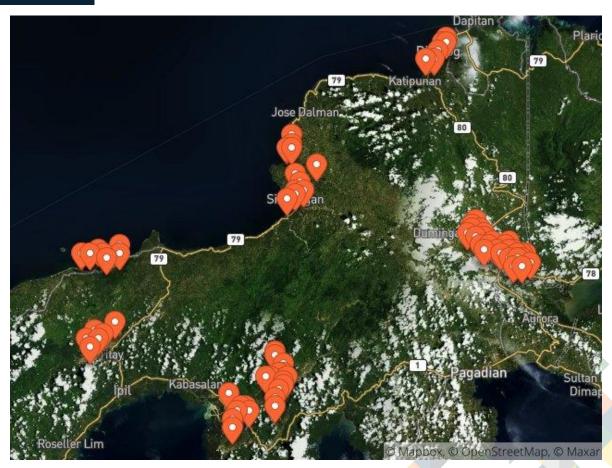


FIGURE 2. Monitored barangays in Region IX from January 2020 to June 2020. Each barangay is represented by 1 marker.



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Zamboanga del Norte: Dipolog City, Labason, and Sindangan

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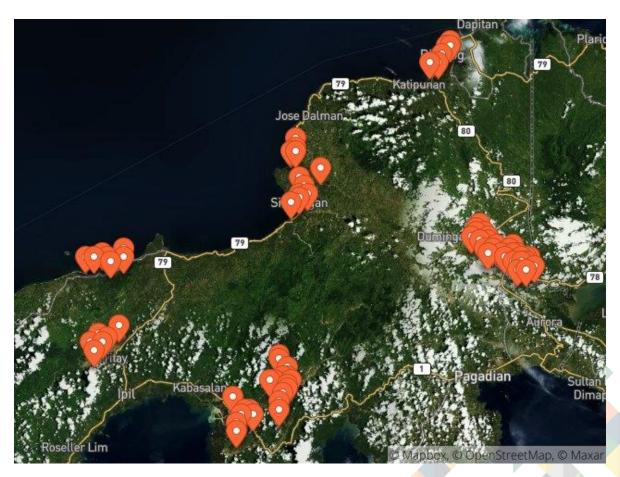


FIGURE 3. Monitored barangays in Region IX from January 2019 to June 2019. Each barangay is represented by 1 marker.



## At a glance

Table 3. Mean incidence of pest injuries, count of insect pests, and percentage of weed cover by month from January to June 2020.

Region IX			202	0	0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 0.							
	JAN	FEB	MAR	APR	MAY	JUN						
A. FOLIAR DISEASES												
Bacterial leaf blight	0.4	0.6	0.4	0	0	0.2						
Bacterial leaf streak	0.1	0.1	0.1	0	0	0.0						
Brown spot	0.2	0.3	0.4	0	0	0.0						
Leaf blast	0.4	0.4	0.1	0	0	0.1						
Red stripe	0.0	0.0	0.0	0	0	0.0						
B. DISEASE OR PEST INJUR	RY ON TILLERS											
Deadheart	0.1	0.2	0.1	0	0	0.5						
Sheath blight	0.1	0.2	0.2	0	0	0.0						
C. DISEASE OR PEST INJUR	RY ON PANICLES											
Neck blast	0.3	0.5	0.4	0	0	0.0						
Whitehead	1.1	2.1	0.9	0	0	0.0						
D. SYSTEMIC DISEASE OR F	PEST INJURY											
Bugburn	0.0	0.0	0.0	0	0	0.0						
Hopperburn	0.0	0.0	0.3	0	0	0.0						
Tungro	0.0	0.0	0.0	0	0	0.0						
E. INSECT COUNT												
Brown planthopper	0.0	0.0	0.0	0	0	0.0						
Green leafhopper	0.0	0.0	0.1	0	0	0.0						
Rice black bug	0.0	0.0	0.0	0	0	0.1						
Rice bug	0.0	0.1	0.1	0	0	0.2						
Rice grain bug	0.0	0.0	0.0	0	0	0.0						
F. RAT INJURY	0.1	0.3	0.1	0	0	0.0						
G. WEED COVER	0.9	1.9	3.4	0	0	0.0						

Mean of all monitoring fields.

LEGEND

1-5 % or 1-5 insects

>5 % or >5 insects



Table 4. Mean incidence of pest injuries, count of insect pests, and percentage of weed cover by month from January to June 2019.

Region IX			2019	9	0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0				
	JAN	FEB	MAR	APR	MAY	JUN			
A. FOLIAR DISEASES									
Bacterial leaf blight	0.6	1.2	2.1	0.6	0	0.0			
Bacterial leaf streak	0.0	0.3	0.4	0.0	0	0.0			
Brown spot	0.0	0.0	0.3	1.2	0	0.0			
Leaf blast	0.0	0.2	0.6	0.1	0	0.0			
Red stripe	0.0	0.0	0.0	0.0	0	0.0			
B. DISEASE OR PEST INJUR	Y ON TILLERS								
Deadheart	0.0	1.0	0.3	0.0	0	0.0			
Sheath blight	0.0	0.5	2.1	0.5	0	0.0			
C. DISEASE OR PEST INJUR	Y ON PANICLES								
Neck blast	0	0.9	0.7	0.5	0	0			
Whitehead	0	1.1	0.7	4.4	0	0			
D. SYSTEMIC DISEASE OR P	EST INJURY								
Bugburn	0.0	0.6	0.1	0.0	0	0.0			
Hopperburn	0.0	0.0	0.0	0.0	0	0.0			
Tungro	0.0	0.0	0.0	0.0	0	0.0			
E. INSECT COUNT									
Brown planthopper	0.0	0.0	0.0	0.0	0	0.0			
Green leafhopper	0.0	0.1	0.3	0.1	0	0.0			
Rice black bug	0.1	0.4	0.0	0.0	0	0.0			
Rice bug	0.0	0.0	0.1	0.2	0	0.0			
Rice grain bug	0.0	0.0	0.0	0.1	0	0.0			
F. RAT INJURY	0.1	0.2	0.0	0.0	0	0.0			
G. WEED COVER	0.4	4.1	3.1	0.4	0	0.0			

Mean of all monitoring fields.

LEGEND

1-5 % or 1-5 insects

>5 % or >5 insects

## Management of major pests

This section describes the management of the most important pests during the reporting period. A pest is operationally considered important if the mean incidence in at least one month was 5% or higher.

#### **Bacterial leaf blight**

- The most practical and economical approach to manage blast is to grow a
  resistant variety. Rotate varieties with different levels of resistance because a
  resistant variety may later become susceptible if grown continuously across
  several cropping seasons.
- 2. Use optimum seeding rate (80 kg per hectare) for direct-seeded rice and optimum plant spacing (e.g., 20cm x 20cm) for transplanted rice. A dense plant canopy creates a favorable microclimate for disease development (reduced sunlight penetration, longer leaf wetness duration and cooler temperature).
- 3. Apply only the recommended amount of nitrogen. Excessive amount of nitrogen favors the development of most rice diseases.
- 4. Manage the application of nutrient fertilizer. Apply the required amount of nitrogen in splits instead of applying all the required amount at the start of the cropping season. Nitrogen makes the plant tissues softer and creates a dense canopy that results in favorable microclimate for disease development.
- 5. Apply potassium and other required nutrients in addition to nitrogen. Potassium reduces the amount of most rice diseases.
- 6. Apply calcium silicate fertilizer or silicon fertilizer when feasible.
- 7. Remove weeds from the field because the pathogen can survive and cause disease on several weed species.
- 8. Use copper fungicides as last resort in controlling the disease. Copper fungicides should be applied with caution because copper accumulates in the soil surface (does not leach easily) and in the roots. Copper toxicity deforms roots and may eventually reduce yield.
- 9. Avoid using antibiotics because bacteria easily develop resistance to antibiotics. IRRI plant pathologists have observed that several strains of isolates collected from farmers' fields in the Philippines are resistant to antibiotics.

- 10. If plants had severe disease, cut the stubbles close to the ground and remove them from the field. A less laborious option is to immediately plow or rotavate the field after harvest to incorporate infected stubbles and crop residues in the soil.
- 11. Avoid ratooning because the pathogen can survive on ratoon.
- 12. Keep the field dry during the fallow period to control the pathogens in infected stubbles.

#### Leaf blast and neck blast

- The most practical and economical approach to manage blast is to grow a
  resistant variety. Rotate varieties with different levels of resistance because a
  resistant variety may later become susceptible if grown continuously across
  several cropping seasons.
- 2. Practice planting synchrony with defined fallow period in your area. If this is not possible, a farmer who intends to grow a susceptible variety should not plant rice later than most farmers' fields.
- 3. Use optimum seeding rate (80 kg per hectare) for direct-seeded rice and optimum plant spacing (e.g. 20 cm x 20 cm) for transplanted rice. A dense plant canopy creates a favorable microclimate for disease development (reduced sunlight penetration, longer leaf wetness duration and cooler temperature).
- 4. Apply only the recommended amount of nitrogen. Excessive amount of nitrogen favors the development of most rice diseases.
- 5. Manage the application of nutrient fertilizer. Apply the required amount of nitrogen in splits instead of applying all the required amount at the start of the cropping season. Nitrogen makes the plant tissues softer and creates a dense canopy that results in favorable microclimate for disease development.
- 6. Apply potassium and other required nutrients in addition to nitrogen. Potassium reduces the amount of most rice diseases.
- 7. Apply calcium silicate fertilizer or silicon fertilizer when feasible.
- 8. Irrigate the field continuously until one week before harvest. Do not drain the field for long periods because drought stress favors blast.
- 9. Use fungicides as last resort in controlling the disease. To control neck blast, apply fungicide at late booting and heading stages if leaf blast increases before booting stage and if it is always raining. Pathogens become resistant to chemical

pesticides if these are not used properly. Avoid repetitive use of a single active ingredient and mix or alternate an active ingredient with an appropriate partner. Integrate the use of chemical pesticides with cultural practices or non-chemical methods. Wherever feasible, several strategies should be used together.

- 10. If plants had severe disease, cut the stubbles close to the ground and remove them from the field. A less laborious option is to immediately plow or rotavate the field after harvest to incorporate infected stubbles and crop residues in the soil.
- 11. Avoid ratooning because the pathogen can survive on ratoon.
- 12. Keep the field dry during the fallow period to control the pathogens in infected stubbles.

#### Sheath blight

- 1. There is currently no variety with reliable resistance to sheath blight. Varieties are either moderately or highly susceptible.
- 2. Use optimum plant spacing (e.g., 20 cm x 20 cm) for transplanted rice. A dense plant canopy creates a favorable microclimate for disease development (reduced sunlight penetration, longer leaf wetness duration and cooler temperature).
- 3. Manage the application of nutrient fertilizer. Apply only the recommended amount of nitrogen. Excessive amount of nitrogen favors the development of sheath blight. Nitrogen makes the plant tissues softer and creates a dense canopy that results in favorable microclimate for disease development.
- 4. Apply the required amount of nitrogen in splits instead of applying all the required amount at the start of the cropping season.
- 5. Apply potassium and other required nutrients in addition to nitrogen. Potassium reduces the amount of most rice diseases.
- 6. Apply calcium silicate fertilizer or silicon fertilizer when feasible.
- 7. Apply Trichoderma spp. to control sheath blight. The application of Trichoderma may also increase plant vigor. Purchase a product that has been formulated and maintained according to strict quality control measures. Follow the directions on how to use and store the product as recommended by the manufacturer to maintain its viability.

- 8. Keep the field free from weeds because the pathogen can infect most of the weed species in rice fields.
- 9. Use fungicides as last resort in controlling the disease. If necessary, apply fungicides, such as azoxystrobin or ready mixture of differentiation and propiconazole at 7 days after panicle differentiation to heading.
- 10. Avoid repetitive use of a single active ingredient and mix or alternate an active ingredient with an appropriate partner. Integrate the use of chemical pesticides with cultural practices or non-chemical methods. Wherever feasible, several strategies should be used together.
- 11. If plants had severe disease, cut the stubbles close to the ground and remove them from the field. A less laborious option is to immediately plow or rotavate the field after harvest to incorporate infected stubbles and crop residues in the soil.
- 12. Avoid ratooning because the pathogen can survive on ratoon.
- 13. Keep the field dry during fallow period. Drying may reduce the survival of the pathogen but may not completely control the disease because it can survive on dead plant tissues.

### Deadheart and whitehead caused by stemborer

- 1. Know the peak of yellow stem borer population in the area. This can be done using light traps. Do not transplant or sow seeds when insect population is high.
- 2. Consider the use of pheromones to control stemborers.
- The most practical and economical approach to manage whitehead is to grow a resistant variety. Rotate varieties with different levels of resistance because a resistant variety may later become susceptible if grown continuously across several cropping seasons.
- 4. Practice planting synchrony with defined fallow period in your area. Asynchronous planting results in overlapping generations of stemborer throughout the year. If this is not possible, a farmer who intends to grow a susceptible variety should not establish his crop later than most farmers' fields.
- 5. Raise level of irrigation water periodically to submerge the eggs on the lower parts of the plant.
- 6. Manage the application of nutrient fertilizers. Apply the required amount of nitrogen in splits instead of applying all the required amount at the start of the

- cropping season. Nitrogen makes the plant tissues softer and facilitates penetration of stemborer larvae.
- 7. Remove alternate hosts during the cropping season and fallow period.
- 8. If high infestation occurred, cut stubbles close to the ground and dry or remove stubbles from the field. A less laborious option is to plow the field during fallow to bury stubbles.
- 9. Do not apply insecticides during the early vegetative stage. Systemic insecticides may be applied after the vegetative stage. Systemic insecticides were found to be more effective than contact insecticides because the larvae and pupae are inside the stem. Insecticides should be used with extreme caution. Monitor the population of stemborers and intensity of deadheart or whitehead prior to the application of insecticides because its efficacy is low when generations of stemborer overlap and when damage is already severe. Insecticides should be used as the last resort and should be integrated with other methods to conserve natural enemies.

#### Weeds

- 1. Plow and harrow the field several times before crop establishment. If feasible, start land preparation 3-4 weeks before planting.
- 2. If weedy rice is a problem, apply glyphosate before land preparation or seeding. The application of pretilachlor with fenchlorim during final land preparation or levelling has also been reported to reduce weedy rice.
- 3. Practice stale seedbed technique. According to the IRRI Knowledge Bank (http://www.knowledgebank.irri.org/step-by-step-production/growth/weed-management/stale-seedbed-technique), this technique is done as follows:
  - a. Perform tillage operations. Plow, harrow, and level the field.
  - b. Stimulate weed emergence by light irrigation.
  - c. Irrigate the field at least two weeks before sowing.
  - d. Maintain enough soil moisture to allow weeds to germinate.
  - e. Kill the emerged seedlings using non-selective herbicides (e.g., glyphosate) or light cultivation.



- f. If the soil condition is suitable for sowing, broadcast seeds without further tillage operations. Tillage could bring more weed seeds near the soil surface, thus promoting weed germination.
- 4. Level the field to ensure a constant water level that controls weeds. Avoid high spots where weeds can grow.
- 5. Apply pre-emergence herbicide (e.g., pretilachlor + fenclorim 2-3 days after sowing). Follow recommended amount and timing of product and water condition in the field as indicated in the label. Do not use the same herbicide over long periods to prevent herbicide resistance.
- 6. If grass weeds are the main weed problem, apply early post-emergence herbicide.
- 7. Maintain a 2-5 cm water level in the field to minimize weed emergence. If water is sufficient, flood the fields until closure of the plant canopy.
- 8. Apply nitrogen fertilizer just after weeding to minimize rice-weed competition for nitrogen.
- 9. If feasible, consider the use of biological control agents to suppress growth or reduce population of weeds.
- 10. If feasible, plow the field during fallow to kill weeds and prevent the build-up of weed seeds in the soil.





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of Is	0 0	0	0	0	3	27	27	19	0	0	2
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imum 0	.0 0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.1	0.0	0.0	0.0
of Is	0 0	0	0	0	3	27	27	19	0	0	2
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dian 0	.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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of Is	0 0	0	0	0	3	27	27	19	0	0	2
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Region IX				20	19					20	20		
Zamboanga	del Norte	JAN	FEB	MAR	APR	мау	JUN	JAN	FEB	MAR	APR	MAY	JUN
C. DISEASE	OR PEST IN	JURY O	N PANIC	LES									
Neck blast	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	0	0	9	18	0	0	0
Whitehead	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.4	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	5.8	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	0	0	9	18	0	0	0
D. SYSTEMIC	DISEASE	R PEST	INJUR	Y									
Bugburn	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
Hopperburn	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
Tungro	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
					-	LEGEND	)						
Blue	font	5 to 10	% incic	lence of	disease	es, insec	ct pest i	njuries	or weed	cover or	5 to 10 i	nsects.	
Red f	ont	> 10 %	incider	ce of di	seases,	insect p	est inju	ries or	weed co	ver or > 1	.0 insect	s.	

Annex 3. Incidence of pest injuries, count of insect pests, and percentage of weed cover during the previous 1st semesters.

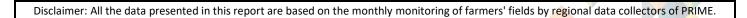
Region IX				20	19					202	:0		
Zamboanga	del Norte	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	мау	JUN
E. INSECT CO	UNT												
Brown	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
planthopper	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
Green	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
leafhopper	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
Rice black	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
bug	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
Rice bug	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
Rice grain	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
bug	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
F. RAT	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
INJURY	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
G. WEED	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	0.1	0.0	0.0	0.0
COVER	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	3.3	20.0	1.7	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	3	27	27	19	0	0	2
						LEGEND	)						
Blue f	ont	5 to 10	% incid	dence of				njuries (	or weed o	over or	5 to 10 i	nsects.	
Red f	ont	> 10 %	incider	nce of di	seases,	insect p	est inju	uries or	weed cov	er or > 1	0 insect	s.	



Region IX				201	9					20	20		
Zamboang	a del Sur	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	мау	JUN
A. FOLIAR	DISEASES												
Bacterial	mean	0.6	1.2	2.1	0.6	0.0	0.0	0.1	0.1	0.2	0.0	0.0	0.0
leaf blight	median	0.0	0.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	9.7	10.3	11.8	3.8	0.0	0.0	2.7	1.3	6.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Bacterial	mean	0.0	0.3	0.4	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0
leaf streak	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	1.2	6.3	4.1	0.0	0.0	0.0	0.7	0.7	0.5	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Brown	mean	0.0	0.0	0.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
spot	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.6	0.5	4.0	15.0	0.0	0.0	0.0	0.8	0.5	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Leaf blast	mean	0.0	0.2	0.6	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.8	4.3	3.0	1.0	0.0	0.0	0.7	5.0	0.1	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Red stripe	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
B. DISEASE	OR PEST I	NJURY (	ON TILLE	RS									
Deadheart	mean	0.0	1.0	0.3	0.0	0.0	0.0	0.1	0.3	0.2	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	8.2	8.7	0.0	0.0	0.0	0.6	5.0	2.1	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Sheath	mean	0.0	0.5	2.1	0.5	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
blight	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	24.0	18.8	5.9	0.0	0.0	0.0	1.7	2.2	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
					LEC	GEND							
Blue	font	5 to 10	% incide	nce of dis			st injuri	es or w	eed cov	er or 5 t	o 10 ins	ects.	
Red	font		incidence										



Region IX				20:	19					202	20		
Zamboanga	del Sur	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	MAY	JUN
C. DISEASE O	OR PEST IN	JURY OI	N PANICI	LES									
Neck blast	mean	0.0	0.9	0.7	0.5	0.0	0.0	0.0	1.4	0.5	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	4.4	6.2	4.4	0.0	0.0	0.0	6.7	5.4	0.0	0.0	0.0
	no. of fields	0	9	43	20	0	0	1	16	44	0	0	0
Whitehead	mean	0.0	1.1	0.7	4.4	0.0	0.0	0.0	2.1	0.8	0.0	0.0	0.0
	median	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	8.3	4.2	13.5	0.0	0.0	0.0	15.0	4.7	0.0	0.0	0.0
	no. of fields	0	9	43	20	0	0	1	16	44	0	0	0
D. SYSTEMIC	DISEASE C	R PEST	INJURY										
Bugburn	mean	0.0	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	33.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Hopperburn	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Tungro	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
					LE	GEND							
Blue	ont	5 to 10	% incide	ence of o	diseases,	insect	pest inj	uries or	weed co	ver or 5	to 10 ir	sects.	
Red f	ont	> 10 %	incidenc	ce of dis	eases, in	sect pe	st injuri	es or we	eed cove	r or > 10	) insects	S.	



Annex 6. Incidence of pest injuries, count of insect pests, and percentage of weed cover during the previous 1st semesters.

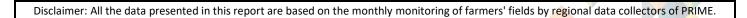
Region IX				201	9					2020			
Zamboanga	del Sur	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	мач	JUN
E. INSECT CO	DUNT												
Brown	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
planthopper	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.6	0.6	0.3	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	7
Green	mean	0.0	0.1	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0
leafhopper	median	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.6	2.2	1.2	0.3	0.0	0.0	0.3	0.5	0.3	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	
Rice black	mean	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
bug	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	1.7	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	
Rice bug	mean	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	1.0	2.3	1.3	0.0	0.0	0.0	1.3	2.0	0.0	0.0	0.
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	
Rice grain	mean	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
bug	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.4	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	-
F. RAT	mean	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
INJURY	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	3.5	3.5	1.0	0.0	0.0	0.0	1.0	3.5	0.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	
G. WEED	mean	0.4	4.1	3.1	0.4	0.0	0.0	0.7	0.4	0.8	0.0	0.0	0.0
COVER	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	6.7	80.0	68.3	3.3	0.0	0.0	20.0	15.0	15.0	0.0	0.0	0.0
	no. of fields	53	61	52	20	0	9	58	60	54	0	0	
					LI	EGEND							
Blue	font	5 to 10	% incide	ence of d	lisease	s, insec	t pest ir	njuries or	weed co	ver or 5	to 10 in	sects.	
Red f	ont	> 10 %	inciden	ce of dise	eases, i	nsect p	est inju	ries or we	eed cove	r or > 10	insects		

## Annex 7. Incidence of diseases or pest injuries during the previous 1st semesters.

Region IX				20	19					202	20		
Zamboang	a Sibugay	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	MAY	JUN
A. FOLIAR	DISEASES												
Bacterial	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.0	0.3	0.0	0.0	0.3
leaf blight	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	2.9	10.8	3.9	0.0	0.0	4.2
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Bacterial	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
leaf streak	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.8	0.2	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Brown	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.2	0.0	0.0	0.0
spot	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	10.8	17.6	5.6	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Leaf blast	mean	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.7	0.1	0.0	0.0	0.1
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	17.4	5.2	2.5	0.0	0.0	0.7
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Red stripe	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
B. DISEASE	OR PEST I	NJURY	ON TIL	LERS									
Deadheart	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.8
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	1.1	9.4	0.0	0.0	0.0	10.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Sheath	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0
blight	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	5.6	8.3	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
						LEGE	ND						
Blue	font	5 to 10	% inci	dence o	f diseas			injuries o	r weed co	ver or 5	to 10 ir	sects.	
	font							uries or w					

Annex 8. Incidence of diseases or pest injuries during the previous 1st semesters.

Region IX				20	19					202	20		
Zamboanga	Sibugay	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	MAY	JUN
C. DISEASE O	OR PEST IN.	JURY O	N PANI	CLES									
Neck blast	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	4.8	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	0	10	19	22	0	0	1
Whitehead	mean	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.7	0.5	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	5.4	10.6	4.1	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	0	10	19	22	0	0	1
D. SYSTEMIC	DISEASE O	R PEST	INJUR	Y									
Bugburn	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Hopperburn	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
Tungro	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	16
						LEGENI	)						
Blue	font	5 to 10	% inci	dence o	fdisease	es, inse	ct pest i	njuries	or weed o	cover or	5 to 10 i	nsects.	
Red f	ont	> 10 %	incide	nce of di	seases,	insect p	oest inju	uries or	weed cov	er or > 1	0 insect	S.	



Annex 9. Incidence of pest injuries, count of insect pests, and percentage of weed cover during the previous 1st semesters.

Region IX				20	19					2020	)		
Zamboanga	Sibugay	JAN	FEB	MAR	APR	MAY	JUN	JAN	FEB	MAR	APR	мау	JUN
E. INSECT CO	UNT												
Brown	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
planthopper	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
Green	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.
leafhopper	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	1.6	0.0	0.0	0.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
Rice black	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
bug	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	3.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
Rice bug	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.
	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.7	1.3	0.0	0.0	2.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
Rice grain	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
bug	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
F. RAT	mean	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.2	0.0	0.0	0.
INJURY	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.5	3.5	0.0	0.0	0.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
G. WEED	mean	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.3	9.7	0.0	0.0	0.
COVER	median	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.
	maximum	0.0	0.0	0.0	0.0	0.0	0.0	23.3	80.0	80.0	0.0	0.0	0.
	no. of fields	0	0	0	0	0	1	47	51	32	0	0	1
						LEGEN	D						
Blue	ont	5 to 10	% inci	dence o	f diseas	ses, inse	ct pest	injuries o	or weed o	over or 5	to 10 i	isects.	
Red f	ont	> 10 %	incide	nce of d	iseases	, insect	pest in	juries or v	veed cov	er or > 10	) insect	s.	