



Better Rice Initiative Asia (BRIA)
AEW Baseline Evaluation - Initial slides

Results Presentation For : Bayer CropScience Phils., GIZ and Yara Phils.
November 2016



Bayer CropScience





Background and Objectives of the Study

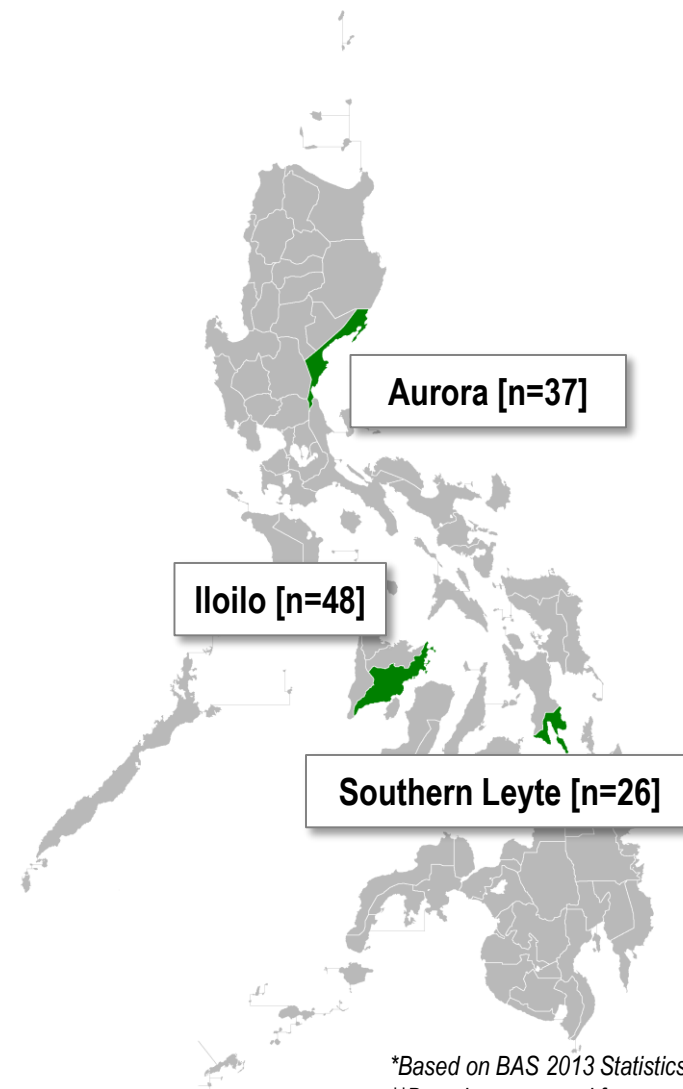
Background and Aim of the Study

- As part of the BRIA Program Evaluation – Baseline Survey Phase, GIZ team facilitated data collection from AEW.
- Succeeding slides are initial information.
- Note that scores are not weighted but based on straight calculations.

Survey Specifications & Distribution of Interviews

Country	Philippines
Data Collection Method	Self Administered Survey – facilitated by GIZ team
Sample Size	N=111
Fieldwork Schedule	
Fieldwork Agency	KLEFFMANN GROUP

Province	*2013 Irrigated Rice Area	**Ave. Crop Size
Iloilo [N=48]	110,755 ha	3.4 ha
Aurora [N=37]	20,579 ha	3.7 ha
Southern Leyte [N=26]	19,039 ha	1.4 ha
TOTAL [N=111]	150,373 ha	2.8 ha



*Based on BAS 2013 Statistics
**Based on surveyed farms

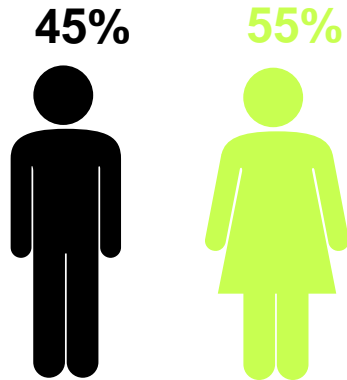


Detailed Findings

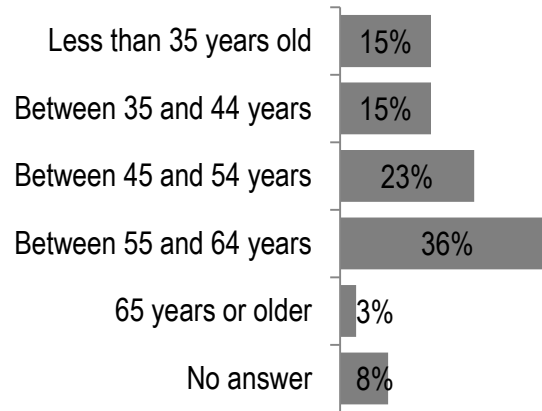
AEW Profile

Age, Education, Professional Background, Experience in Training Farmers

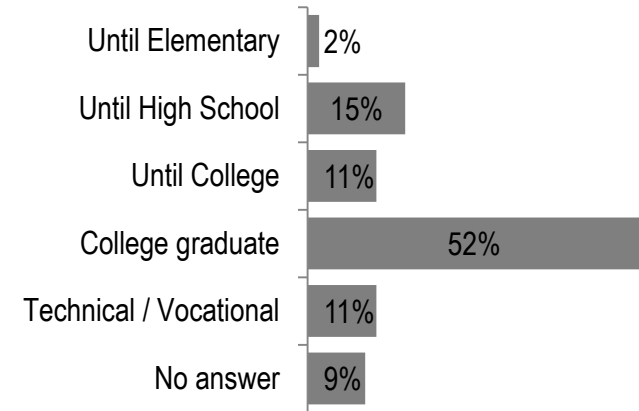
Gender



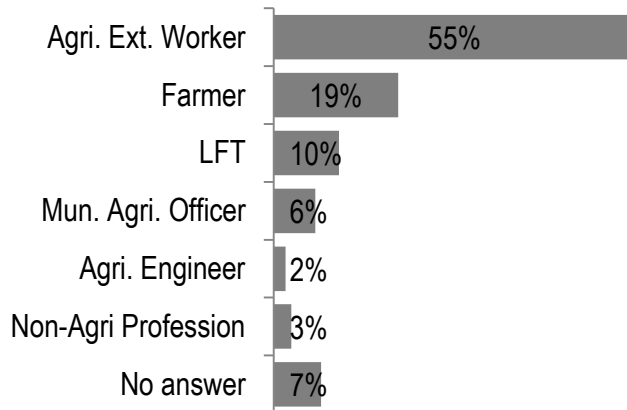
Age



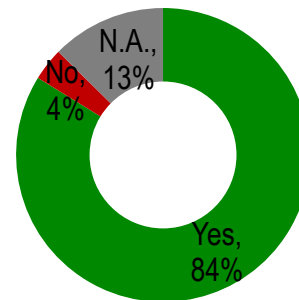
Education



Professional Background



Experience on Training Farmers



Ave. No. of Years Training Rice Farmers: 8 years

Training Coverage

	Min	Average	Max
Number of Farmers in Area Assignment	16	147	700
Number of Barangays Being Handled	1	3	15

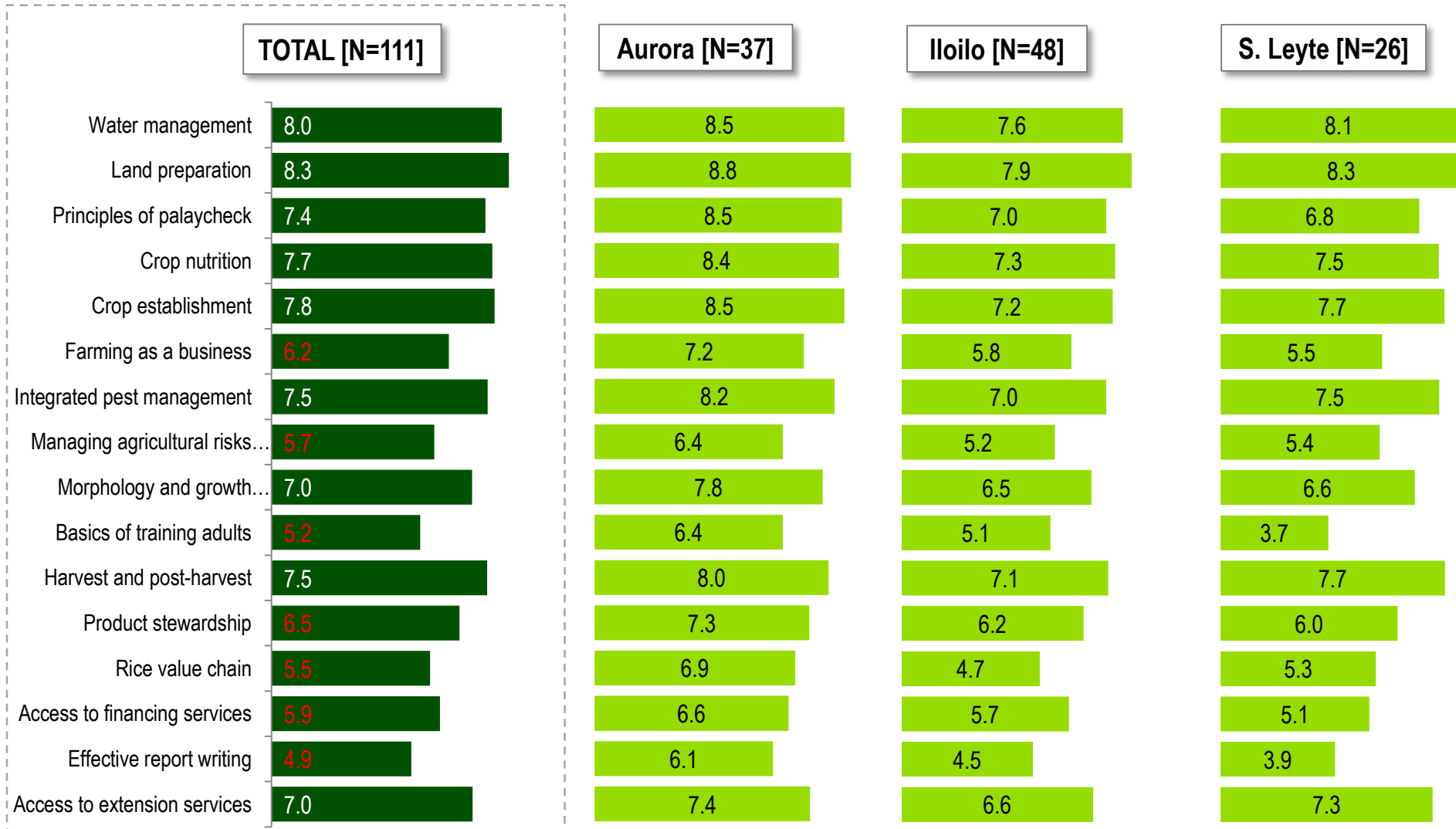


Farmer Training Needs Assessment

Evaluation of Farmer's Rice Production Knowledge

AEW evaluates farmers generally well on on-farm knowledge but lower in post-farm and off-farm information.

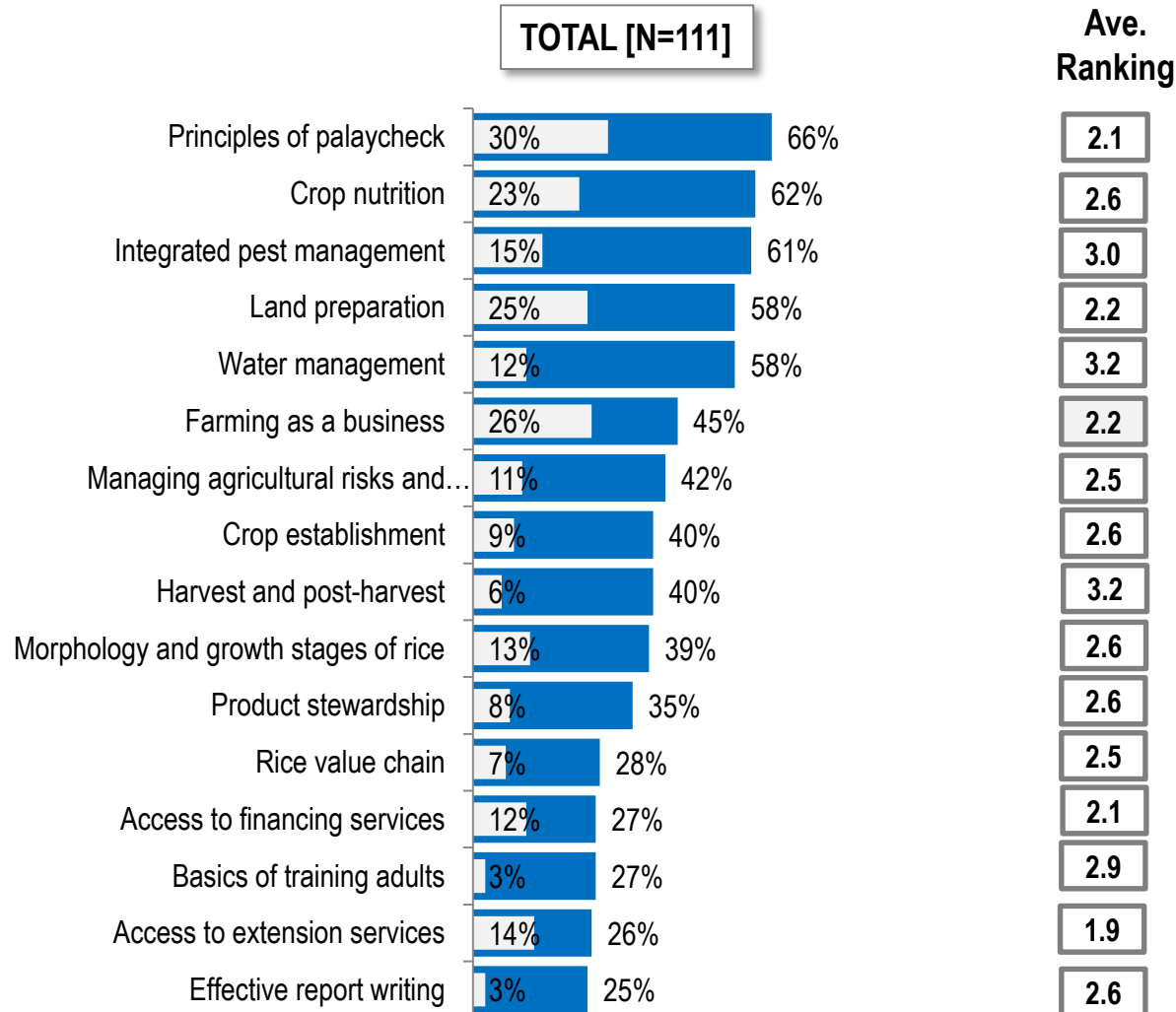
Q1. Rating of Farmer Knowledge on Different Rice Farming Topics – from 0-10, where 0 means no knowledge at all, 10 means definitely with knowledge [Single Answer per Topic]



Top Most Important Rice Farming Topics Farmers Must Learn

AEWs hail Palay Check as top topic for farmers, followed closely by standard farm must know. Note that 2nd to Palay Check, Farming as business has highest % of ranking it first.

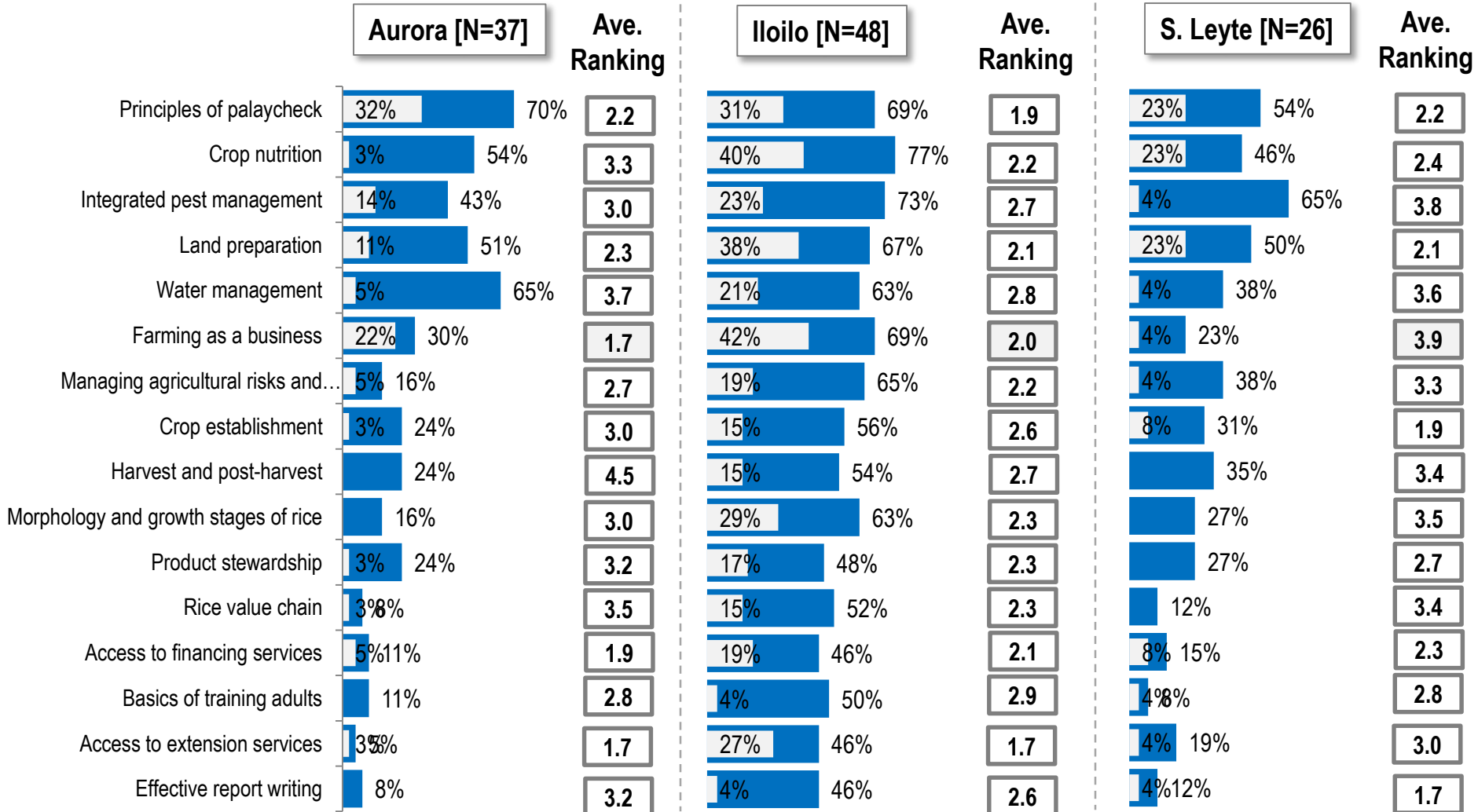
Q2. Ranking of Top 5 Most Important Rice Farming Topics Farmers Must Learn – where 1 is the most important.



Top Most Important Rice Farming Topics Farmers Must Learn

Aurora and Southern Leyte AEWs seem to have more or less same concerns.

Q2. Ranking of Top 5 Most Important Rice Farming Topics Farmers Must Learn – where 1 is the most important.

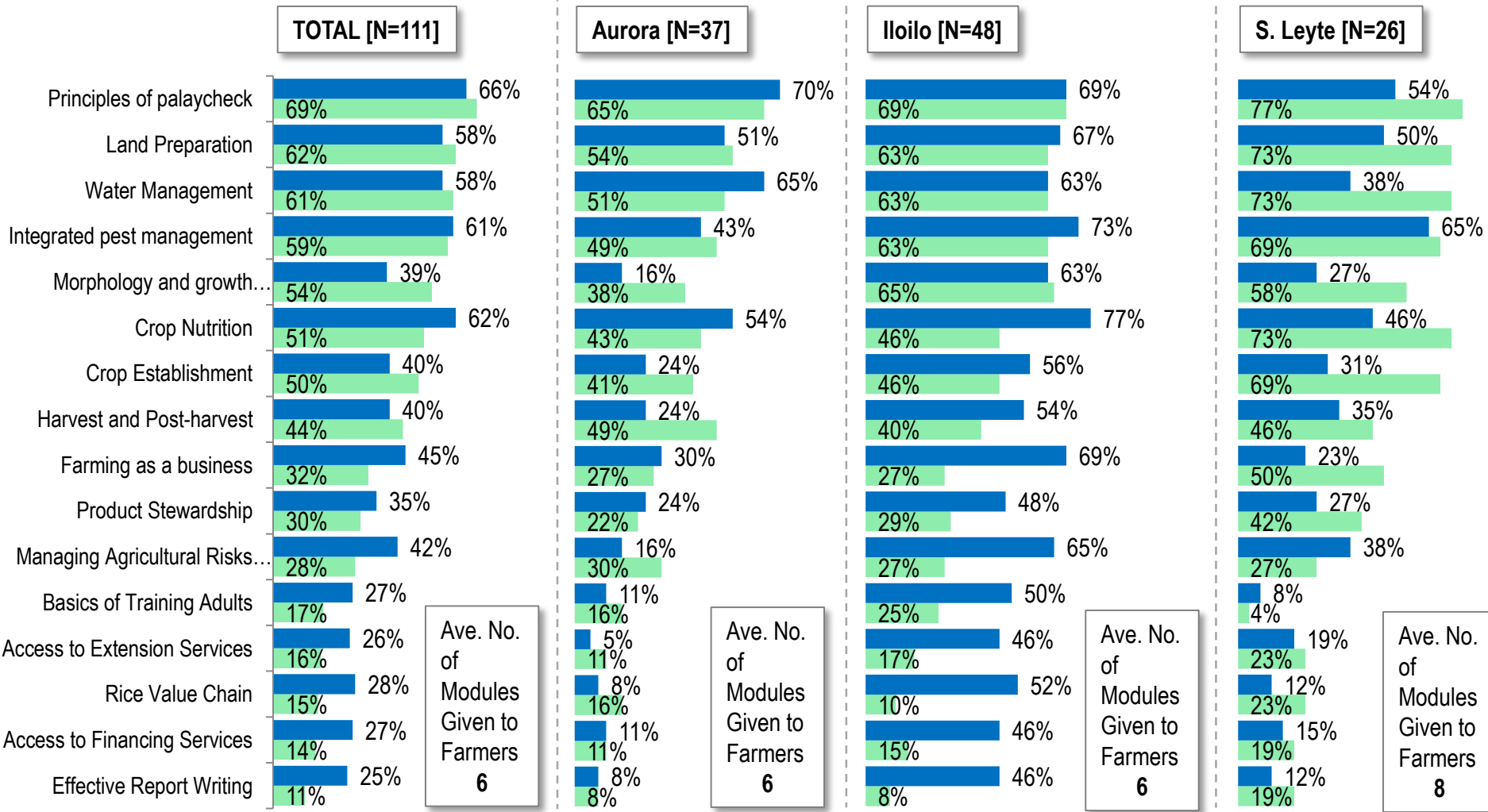


Rice Farming Topics Farmers Are Currently Receiving

Province-wise, AEWs in Iloilo see the importance of most of the module to rice farmers, but only few has been given so far.

Q2. Ranking of Top 5 Most Important Rice Farming Topics Farmers Must Learn – where 1 is the most important.

Q4. Modules Already Given by AEW to Farmers [Multiple Answers]

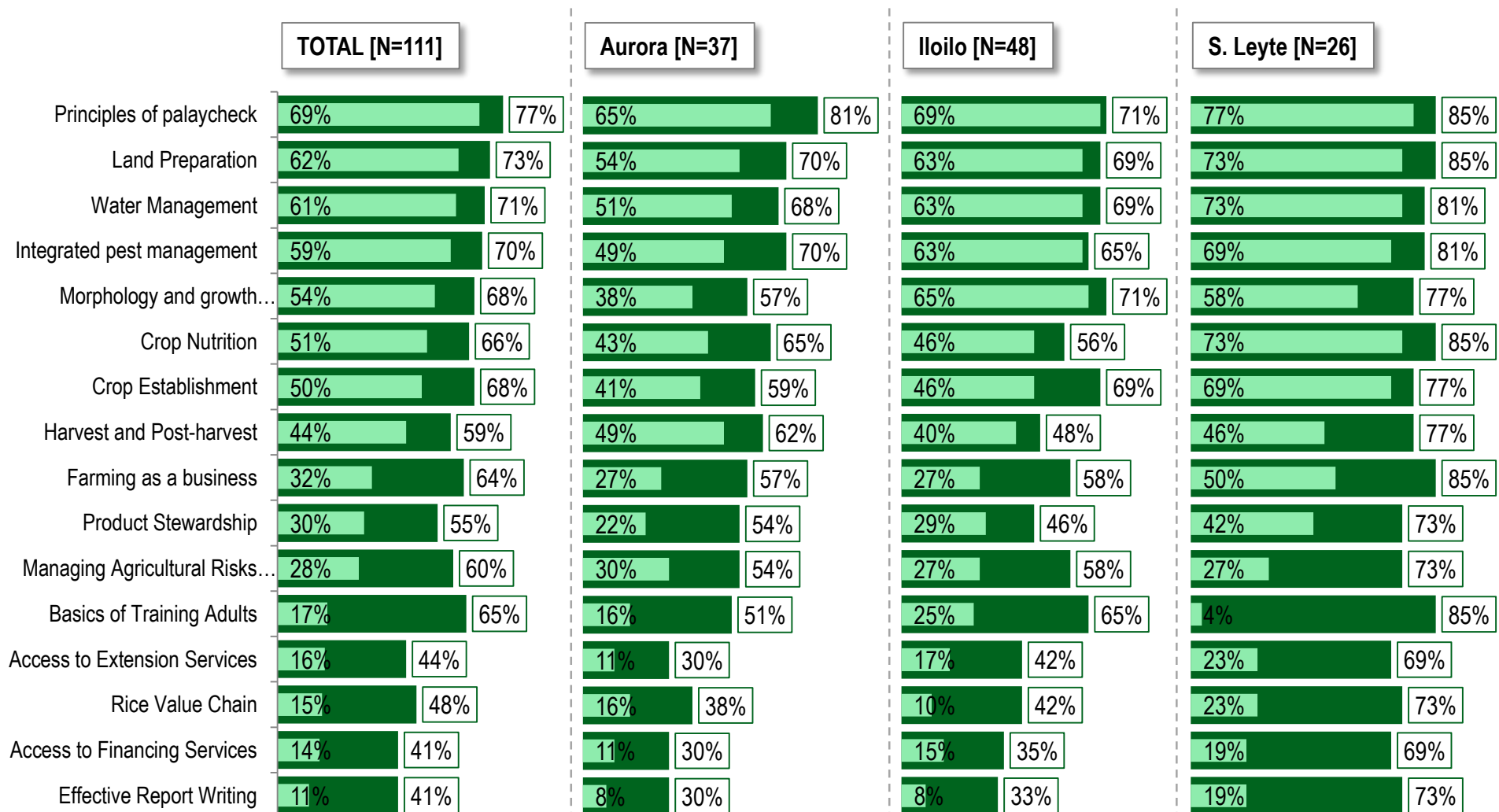


Rice Farming Topics AEWs Have Taken and Given to Farmers

S. Leyte AEWs have taken almost all modules but half of it, mostly off-farm information has not been given to farmers.

Q3. Modules Already Taken by AEW [Multiple Answers]

Q4. Modules Already Given by AEW to Farmers [Multiple Answers]



■ Module AEW Has Taken

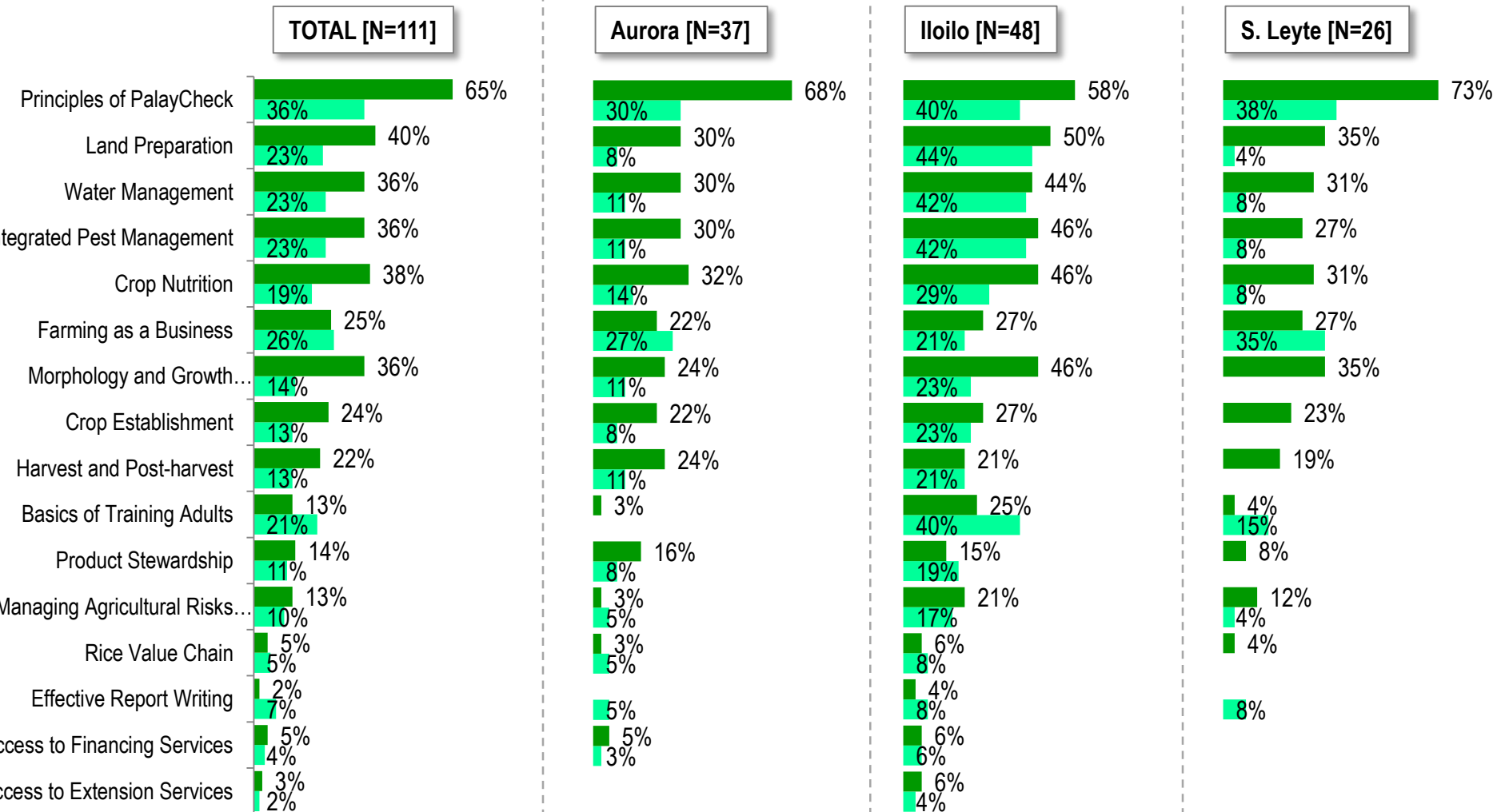
■ Module Given to Farmers

General Sources of Information

Consistently, PalayCheck is most popular module for AEWs.

Q8. BRIA Modules Used Most Often [Single Answer]

Q9. Best BRIA Module [Single Answer]

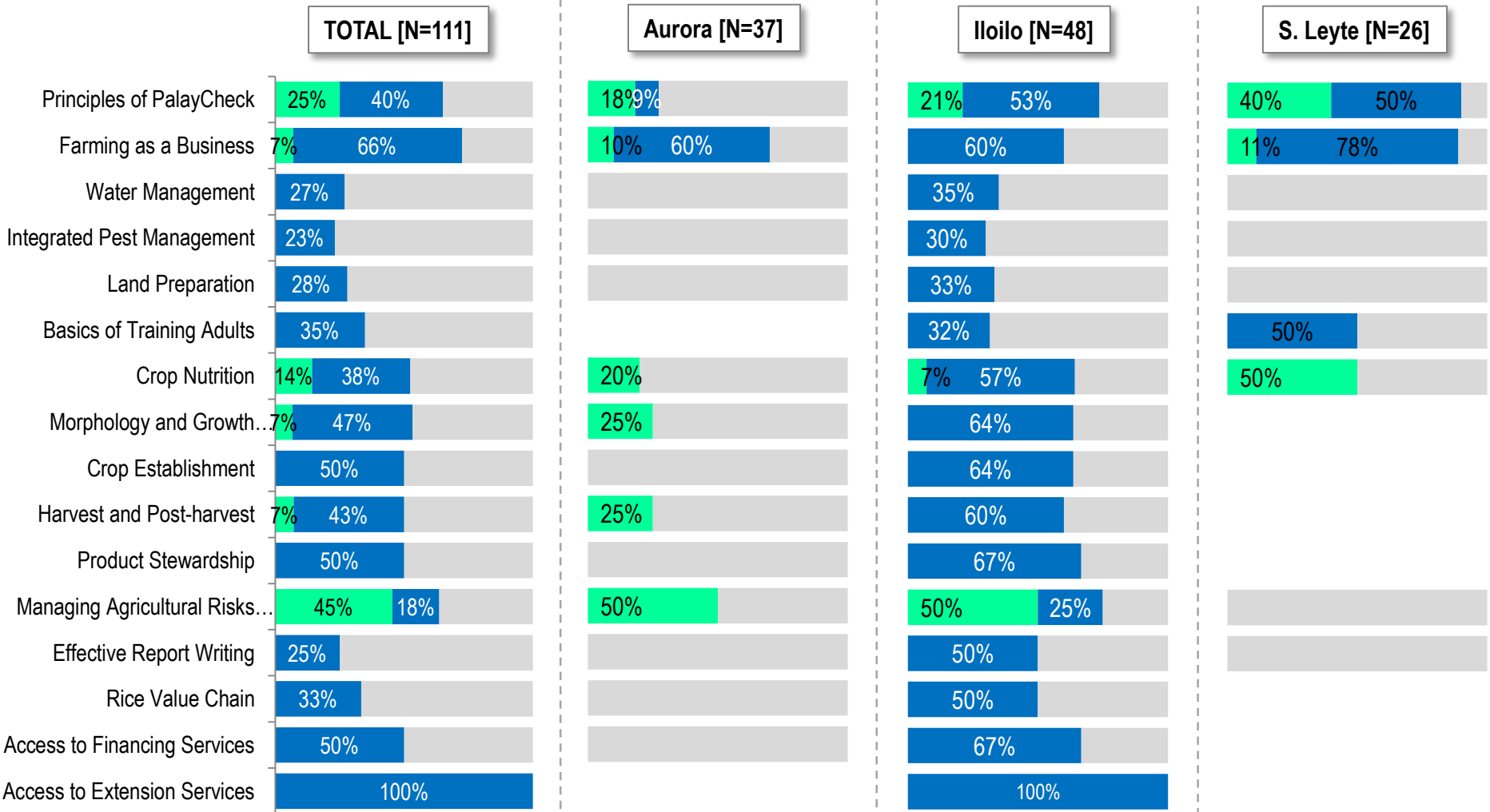


General Sources of Information

BRIA training sessions are usually incorporated into non-BRIA / existing trainings.

Q9. Best BRIA Module [Single Answer]

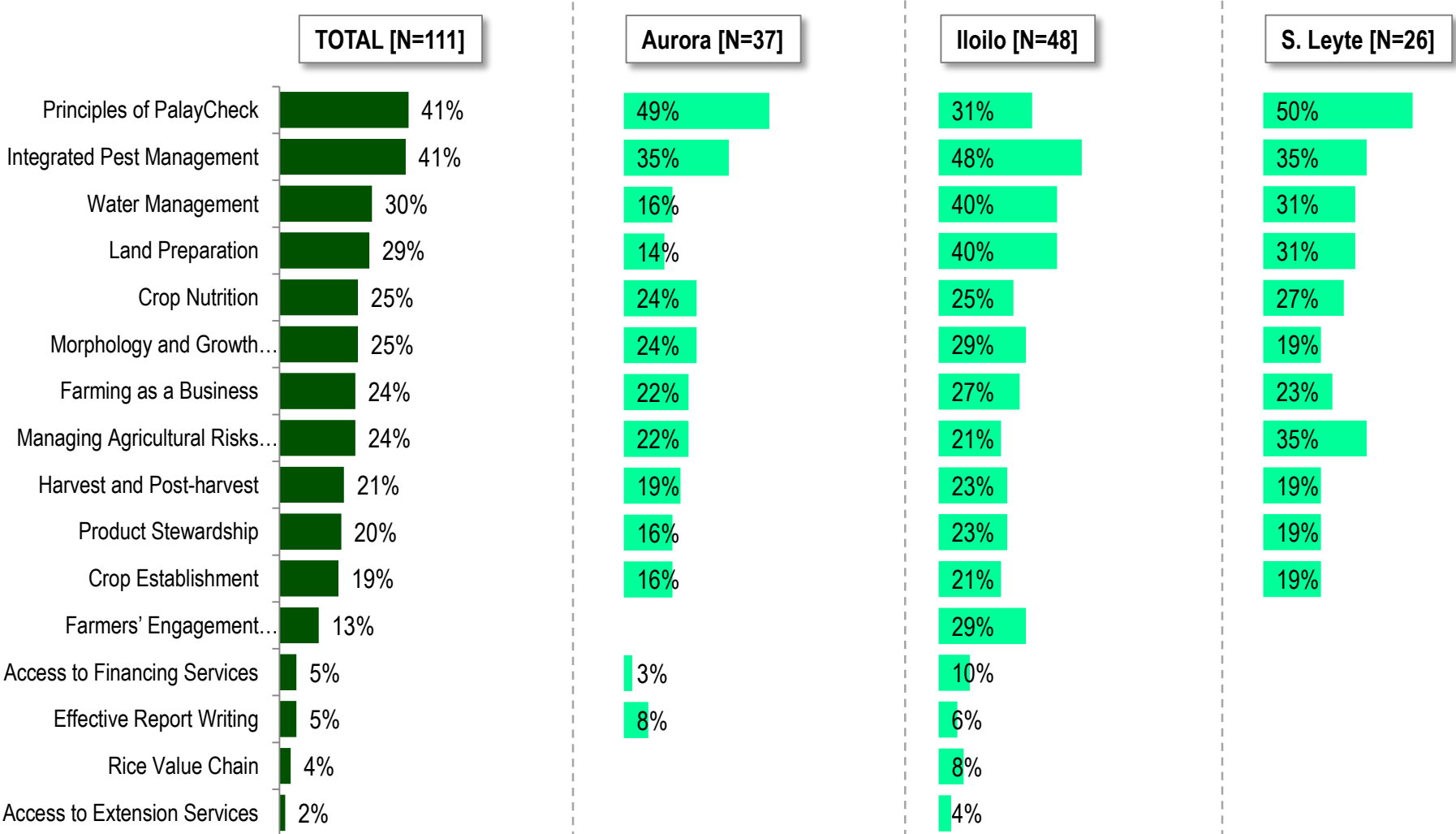
Q10. Whether Used BRIA Training Session as a Stand Alone Training or Incorporated Into Non-BRIA / Existing Training [Single Answer per Topic]



Modules Expected to be Used Most Often in the Future

Principles of Palay Check and IPM are expected to still be communicated to rice farmers in the future.

Q11. BRIA Modules Expected to Be Used Most Often in the Future [Single Answer]

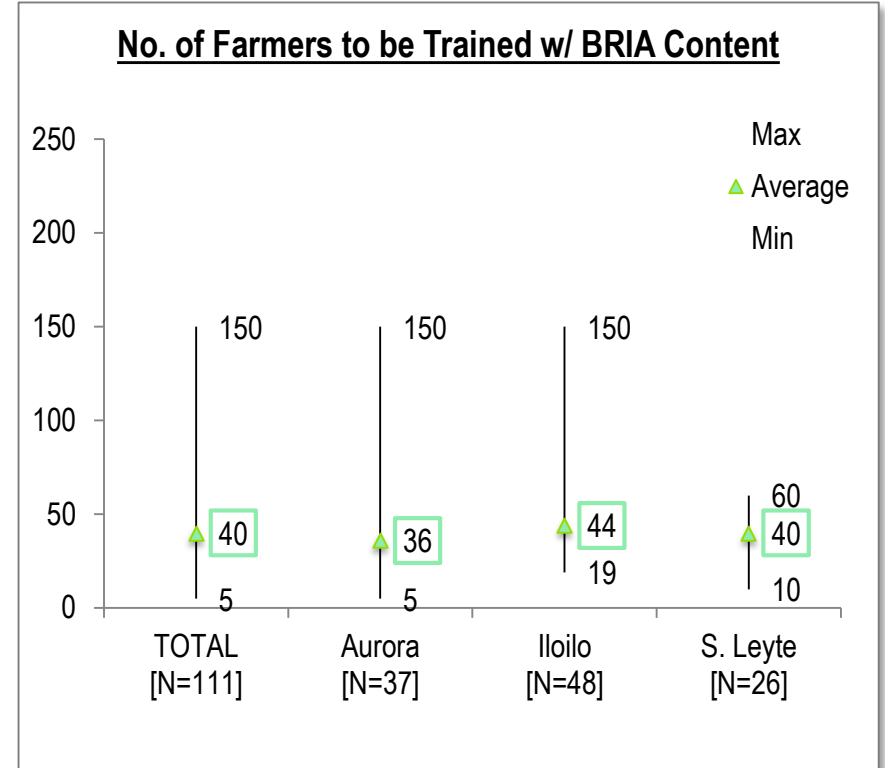
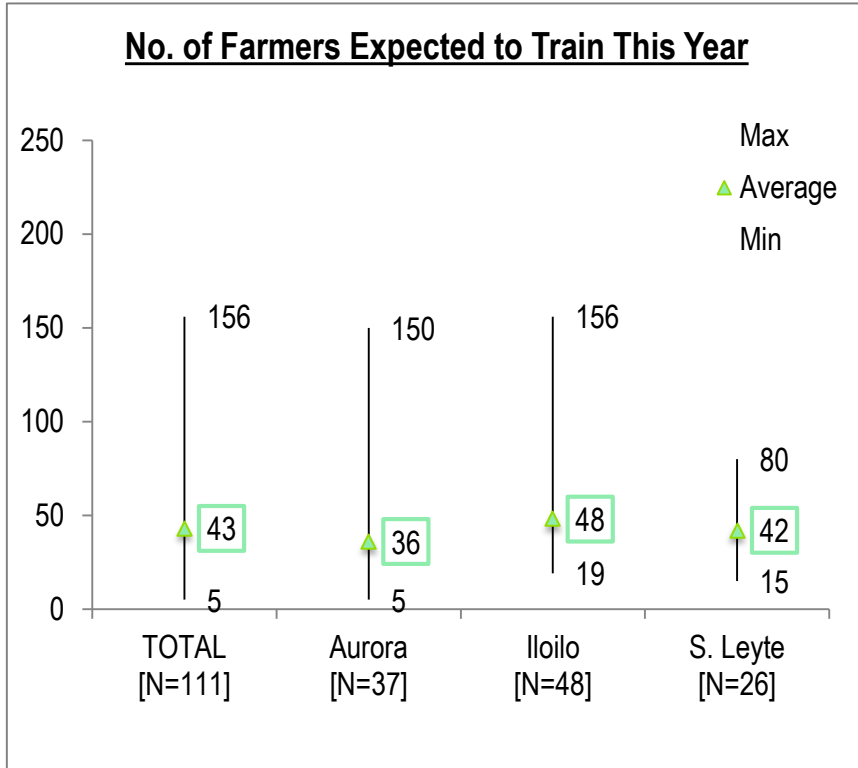


Number of Farmers to be Trained

On the average, AEWs are expecting to train more or less 40 rice farmers.

Q12. Total Number of Farmers Expected to Train This Year [Single Answer]

Q13. Total Number of Farmers to be Trained with BRIA Content [Single Answer]



Farmer Training Needs Assessment

• What is the current level of farmer's knowledge on rice farming? What are the most important farming information do farmers need to learn? What farming information farmers have already received? Which module is used most often? Which is considered the best?

- Generally, AEWs see farmers to be well-informed in terms of on-farm information, especially in land preparation where they received highest rating at 8.3. However, when it comes to off-farm knowledge, ratings are quite lower, with knowledge on effective report writing being the lowest at 4.9.
- Province-wise, extension workers in Aurora perceive rice farmers in the area to be more knowledgeable compared to Iloilo and S. Leyte as they received higher rating in all topics.
- Despite of rating fairly on on-farm knowledge, AEWs still see the need of further training of rice farmers on these aspects. The top 5 most important topics which rice farmers must learn include:
 - Principles of Palay Check, crop nutrition, IPM, land preparation and water management
- Farming as a business may not be perceived as among the top 5 important topics in general, but at least a quarter of extension workers ranked it as number 1, second to Palay Check.
- Southern Leyte AEWs has the most number of training given to rice farmers, with 8 modules already given to them.
- In Iloilo, 7 of 10 extension workers considered farming as a business among the top most important topics which farmers must learn, but only one-fourth gave this training to rice farmers.

Farmer Training Needs Assessment

• What is the current level of farmer's knowledge on rice farming? What are the most important farming information do farmers need to learn? What farming information farmers have already received? Which module is used most often? Which is considered the best?

- AEWs across all provinces use Principles of Palay Check module most often since they consider this as the best among all modules they have taken.
- Among off-farm information, basics of training adults module is at par with other on-farm information as being one of best modules AEWs have used in Iloilo, with 40%.
- Principles of Palay Check will continue its success in the future, while IPM is perceived to have more use in the future trainings, especially in Iloilo.
- On the average, 35-50 rice farmers are expected to be trained by AEWs in 2016, and at least 90%, if not all will be trained with BRIA module.



Farming Knowledge Assessment

Agreement on Statement

AEWs agree in most of the statements but majority of them do not agree that good crop management is more important over having good quality seeds. They also don't see their role limiting to giving trainings to farmers only.

Q15. Identification of the Statements Whether it is True or False [Single Answer]



Knowledge on Importance of Land Preparation

Generally, AEWs perceive land preparation to be beneficial in water management. Province-wise, more farmers in Aurora benefited from having proper knowledge on land preparation.

Q16. Importance of Land Preparation [Multiple Answers]

Q17. Number of Times Have Used the Knowledge on Land Preparation in Fieldwork with Farmers [Single Answer]

Q18. Number of Farmers Who Benefitted from This Knowledge on Land Preparation [Single Answer]



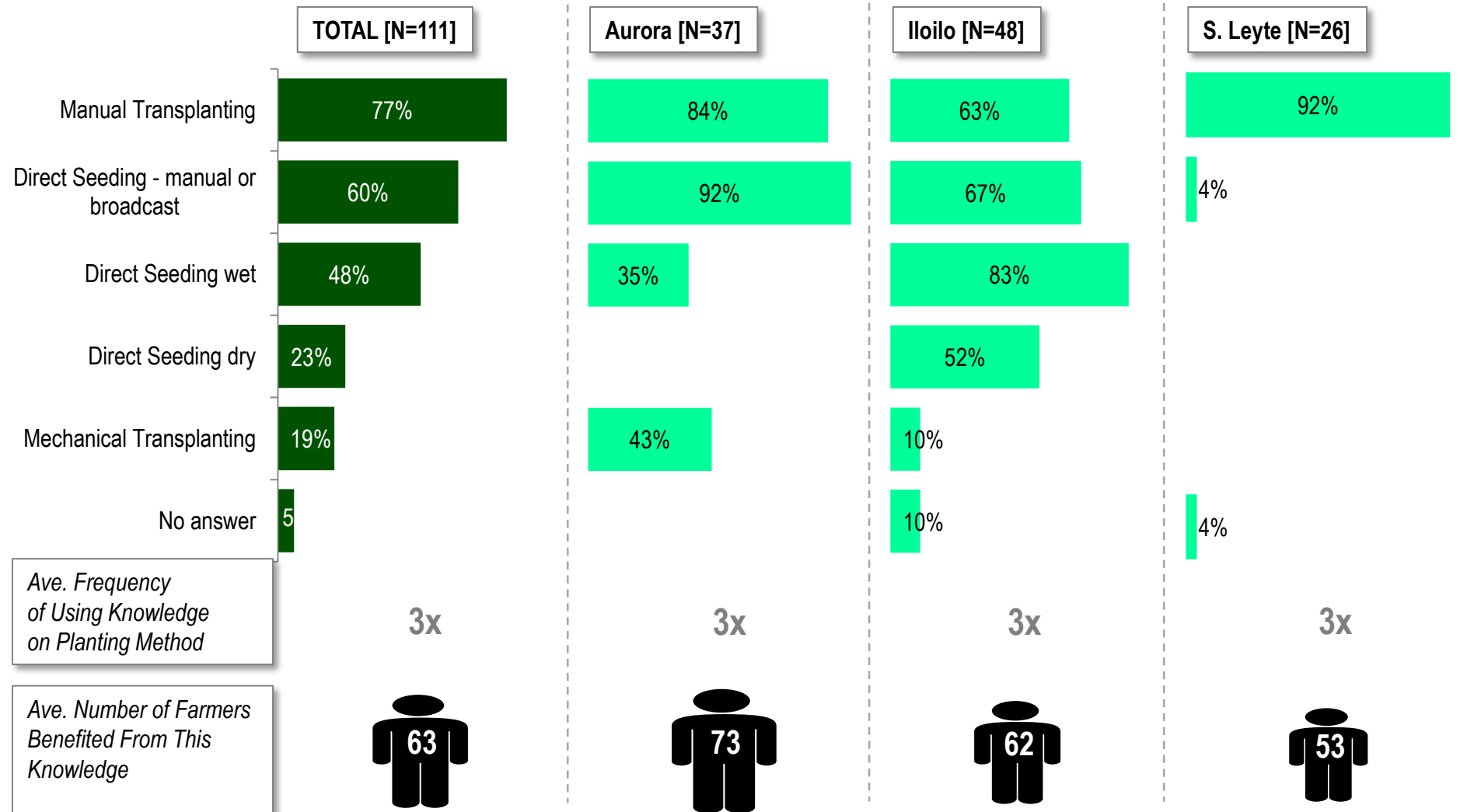
Knowledge on Methods of Planting Rice

S. Leyte rice farmers are predominantly manual transplanting users, while Aurora and Iloilo are split among direct seeding and transplanting.

Q19. Rice Planting Method/s Farmers Commonly Do [Multiple Answers]

Q20. Number of Times Have Used the Knowledge on Rice Planting Method in Fieldwork with Farmers [Single Answer]

Q21. Number of Farmers Who Benefitted from This Knowledge on Rice Planting Method [Single Answer]



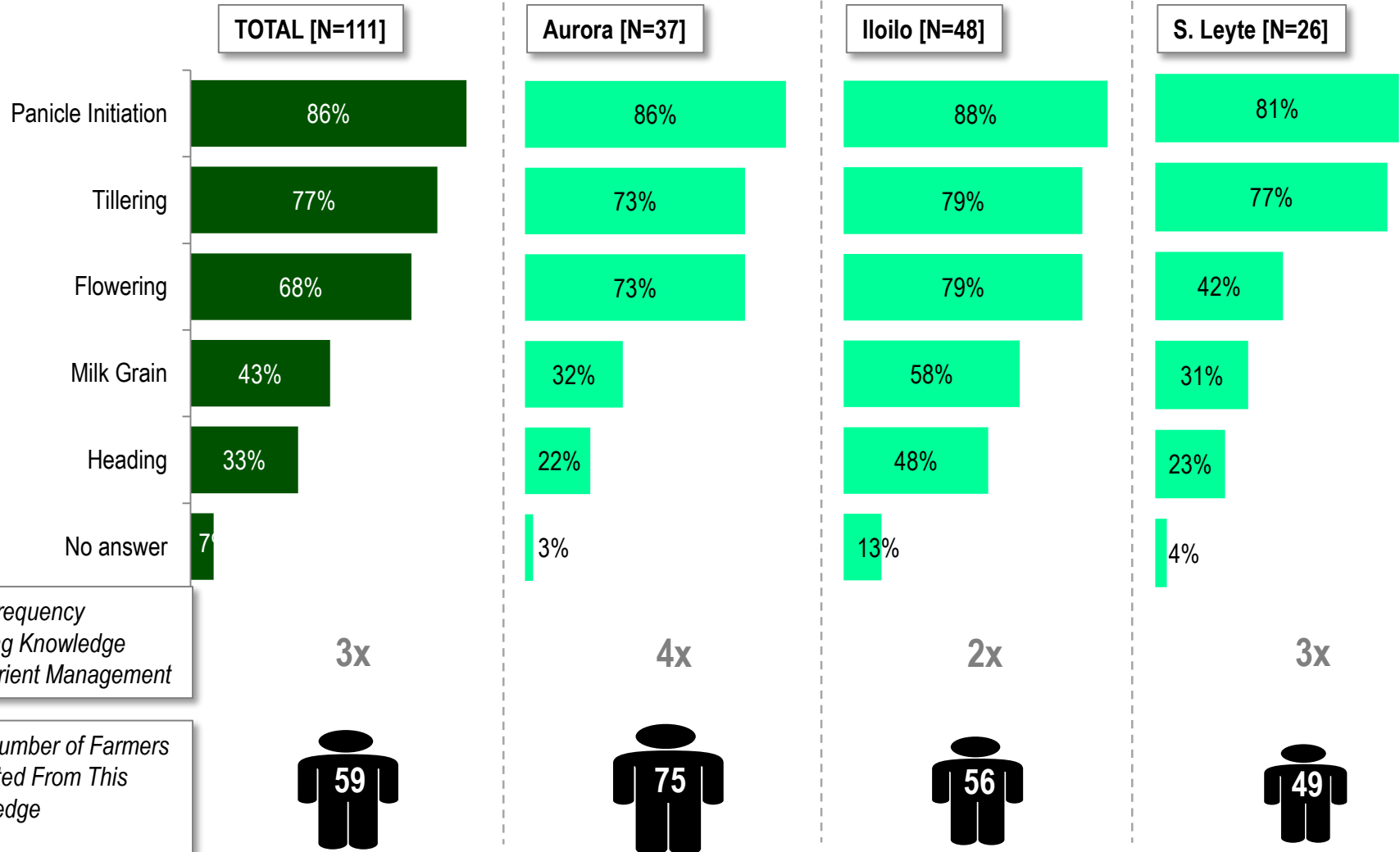
Knowledge on Critical Stages for Nutrient Management

Majority of AEWs agreed for panicle initiation being the most critical stage for nutrient management.

Q22. Critical Growth Stages for Nutrient Management [Multiple Answers]

Q23. Number of Times Have Used the Knowledge on Nutrient Management in Fieldwork with Farmers [Single Answer]

Q24. Number of Farmers Who Benefitted from This Knowledge on Nutrient Management [Single Answer]



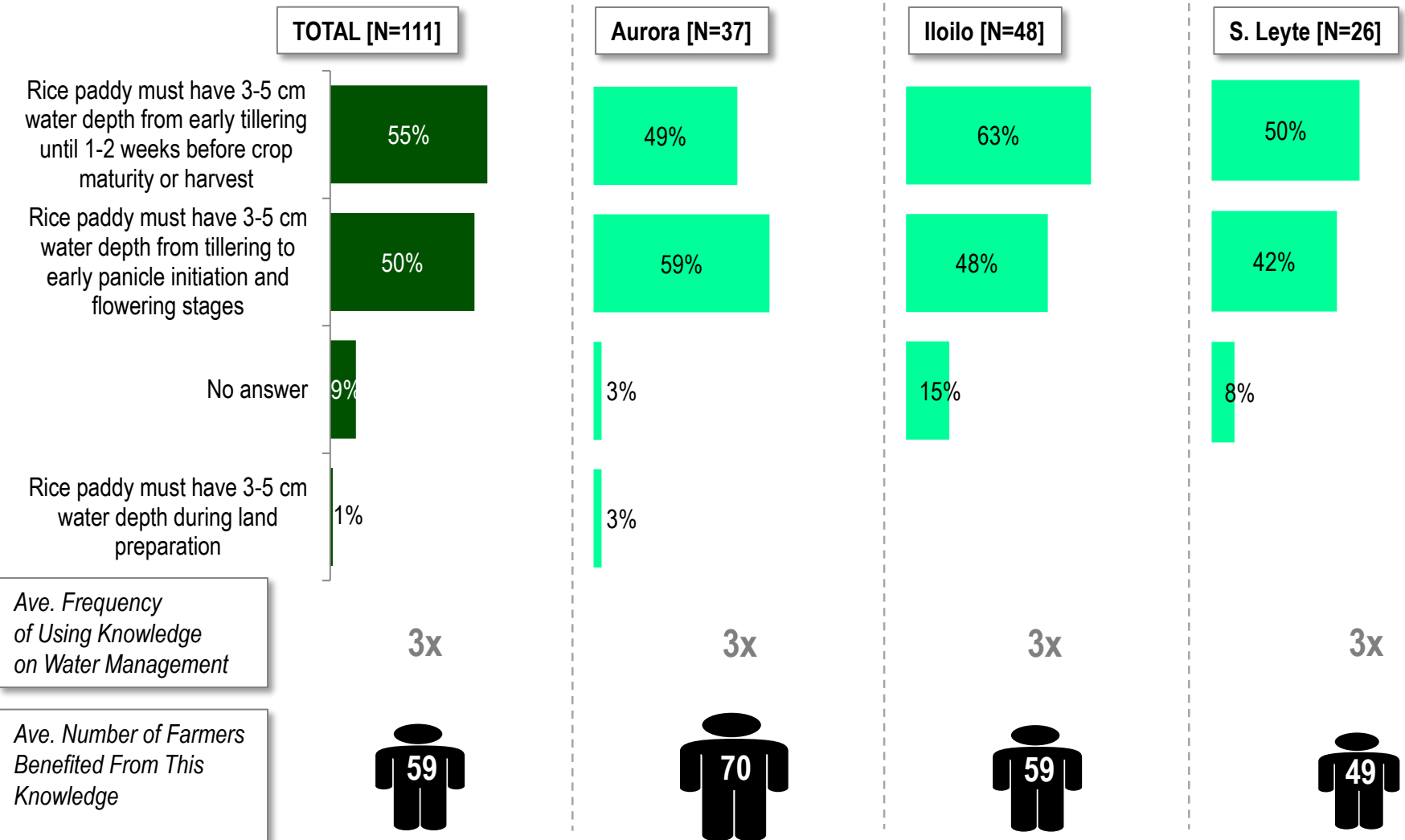
Knowledge on Water Management

About two-thirds of AEWs in Aurora believe that rice should have 3-5cm water depth on early stage to flowering but for Iloilo and S. Leyte AEWs, it should be from tillering to almost maturity.

Q25. Crop Stage When the Water Depth of Paddy Should be 3-5 Centimeters [Single Answer]

Q26. Number of Times Have Used the Knowledge on Water Management in Fieldwork with Farmers [Single Answer]

Q27. Number of Farmers Who Benefitted from This Knowledge on Water Management [Single Answer]

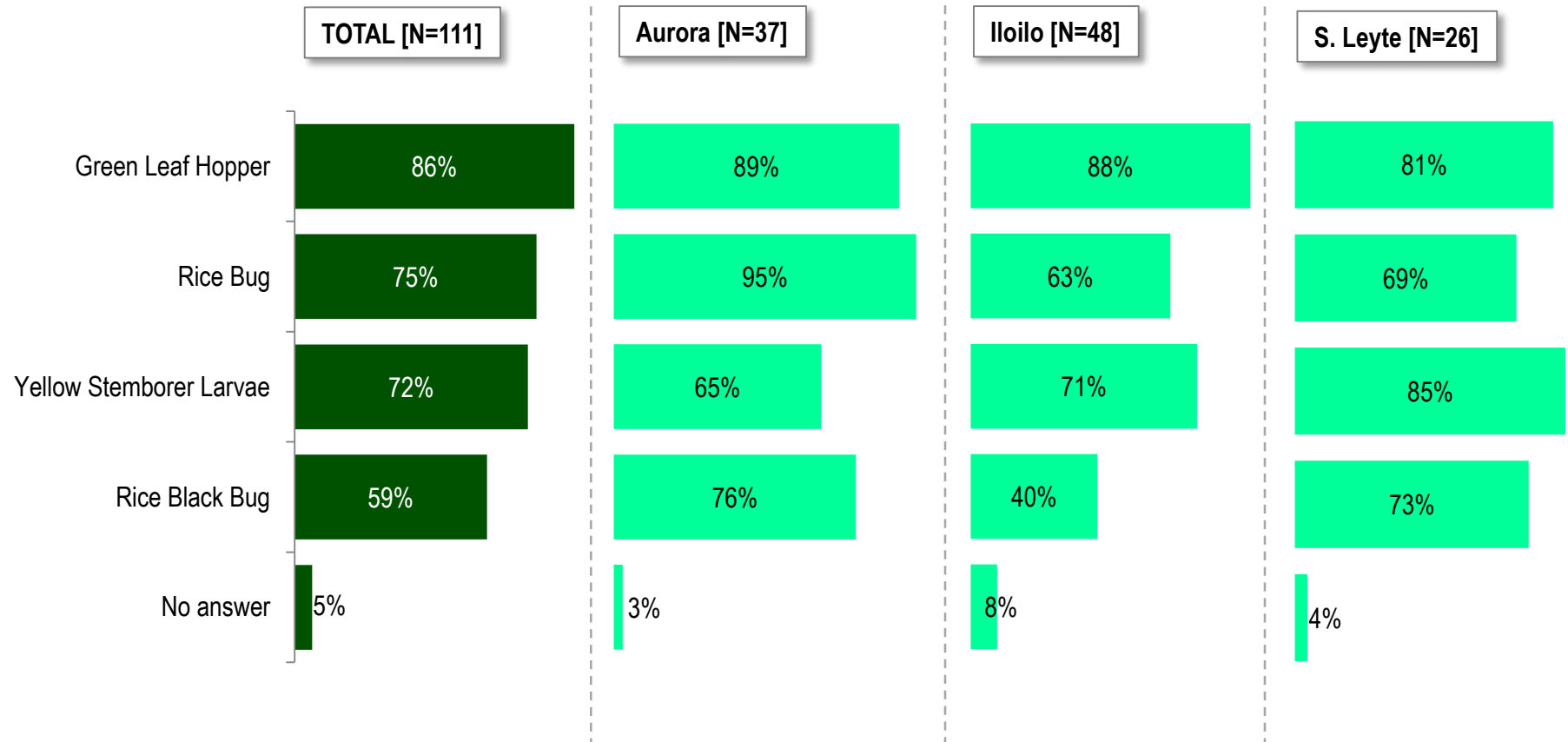


Knowledge on Pest Management

Overall, green leaf hopper is the most common pest which attacks rice farm. Province-wise, different pests are dominating in each area - rice bug in Aurora province, green leaf hopper in Iloilo and stemborer in S. Leyte.

Q28. Most Common Insect Pests of Rice [Multiple Answers]

Most Common Pests

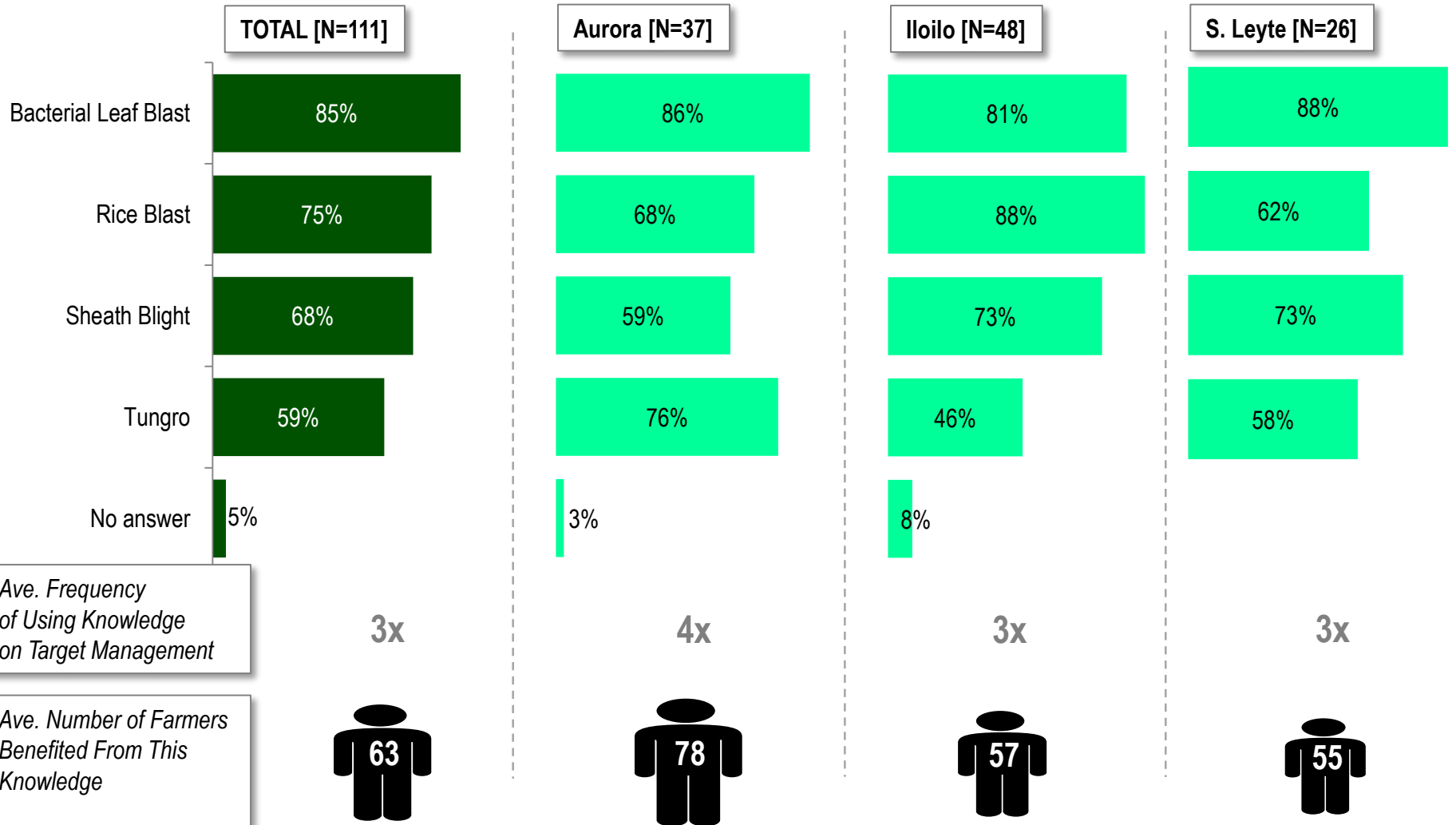


Knowledge on Disease Management

Q29. Most Common Diseases of Rice [Multiple Answers]

Q30. Number of Times Have Used the Knowledge on Pest and Disease Management in Fieldwork with Farmers [Single Answer]

Q31. Number of Farmers Who Benefitted from This Knowledge on Pest and Disease Management [Single Answer]



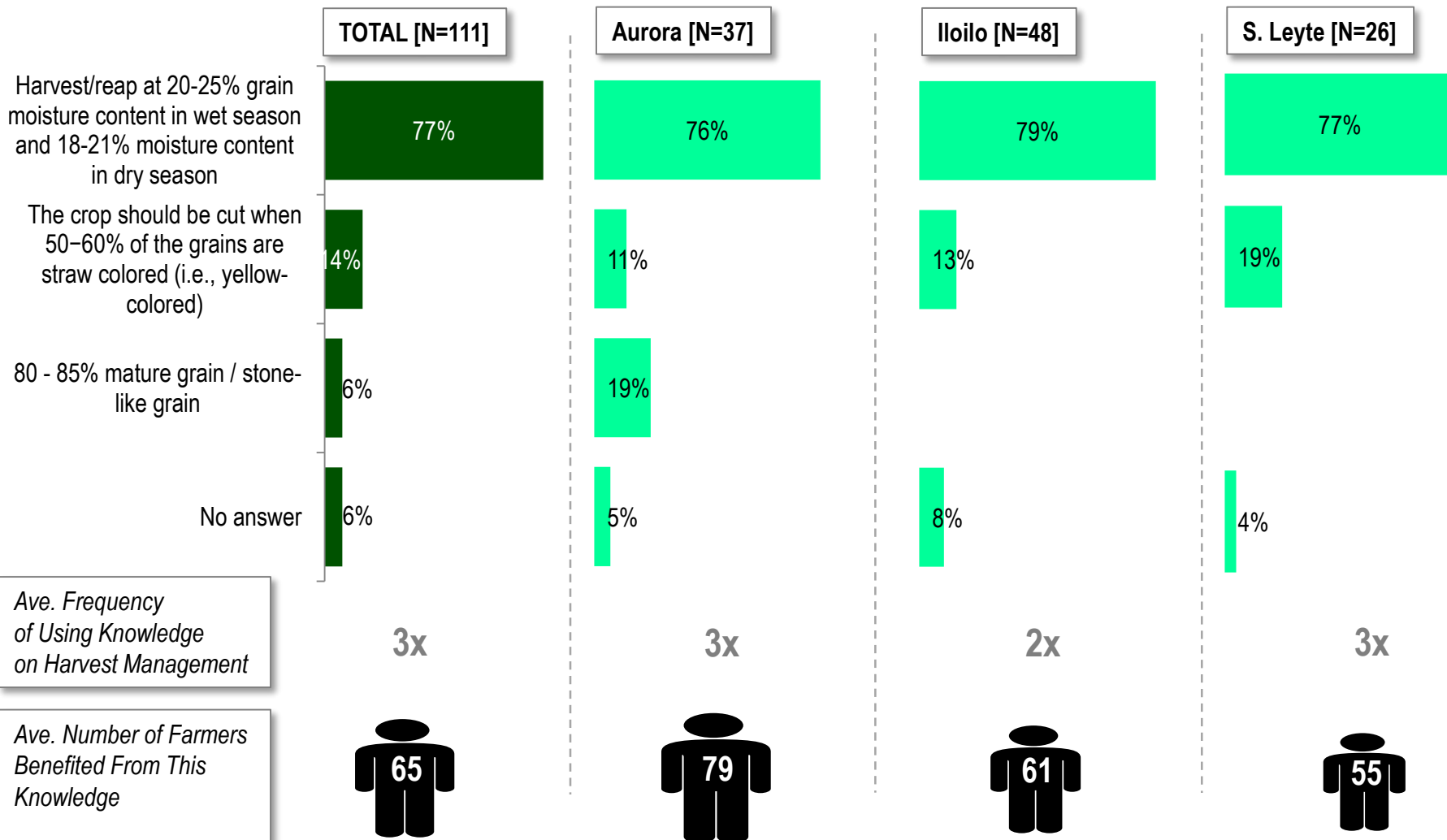
Knowledge on Harvest Management

AEWs are unanimous in using the grain moisture content as basis to know if the crop is already mature enough for harvesting.

Q32. Signs When Crop is Ready for Harvesting [Multiple Answers]

Q33. Number of Times Have Used the Knowledge on Harvesting in Fieldwork with Farmers [Single Answer]

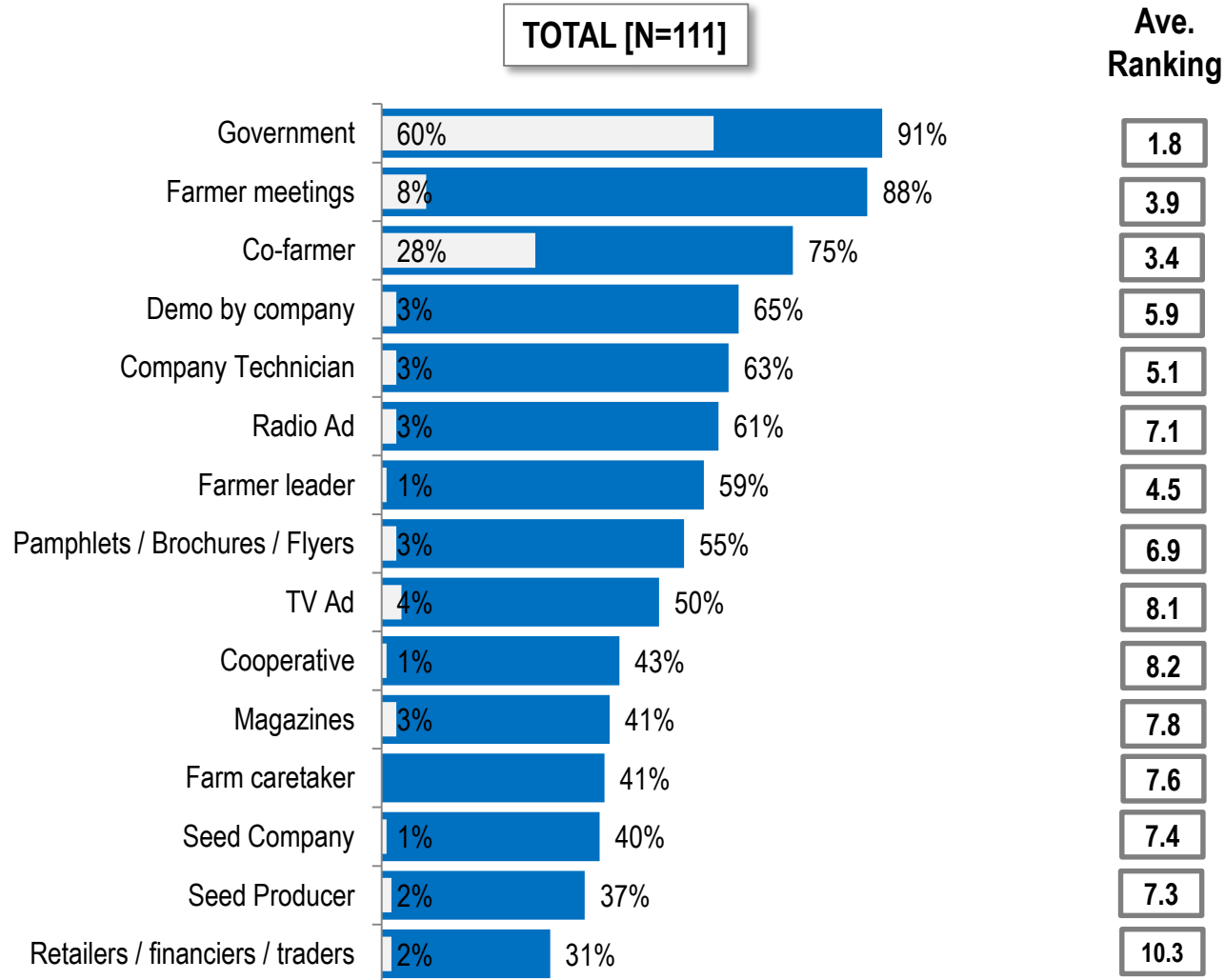
Q34. Number of Farmers Who Benefitted from This Knowledge on Harvesting [Single Answer]



Most Effective Source of Information for Rice Production Method

Government is clearly the most effective source of information on rice production method as perceived by AEWs

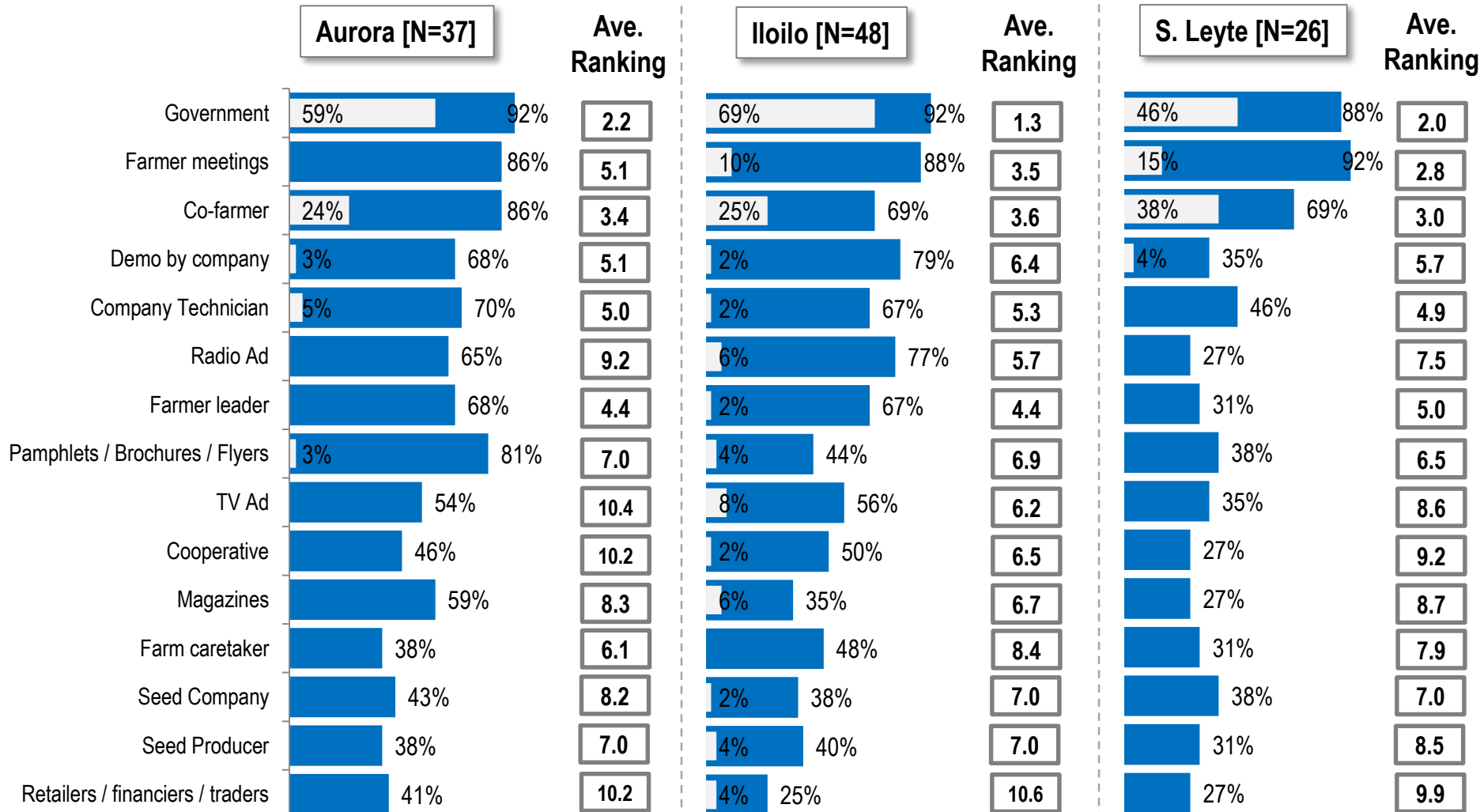
Q35. Ranking of Sources of Information for Rice Production Method Based on Its Effectiveness



Most Effective Source of Information for Rice Production Method

In Southern Leyte, farmer meetings are seen to be more effective as reference in obtaining information on rice production method over government, in general. But government is still the top among ranked 1st.

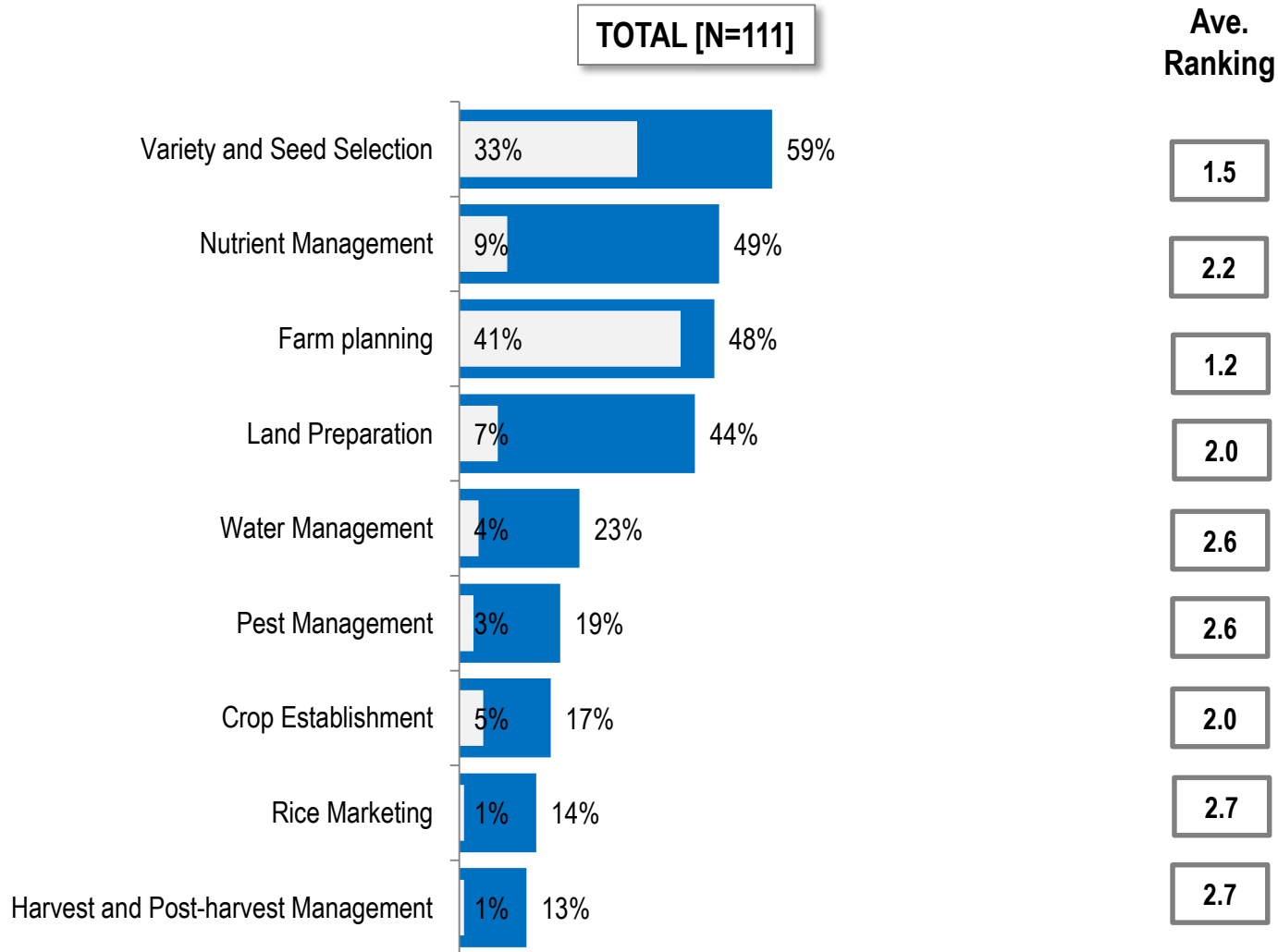
Q35. Ranking of Sources of Information for Rice Production Method Based on Its Effectiveness



Top 3 Aspects w/ Biggest Potential for Achieving Yield & Income Increase

Overall, variety and seed selection has the highest impact in achieving yield & income but AEWs consider farm planning as number 1.

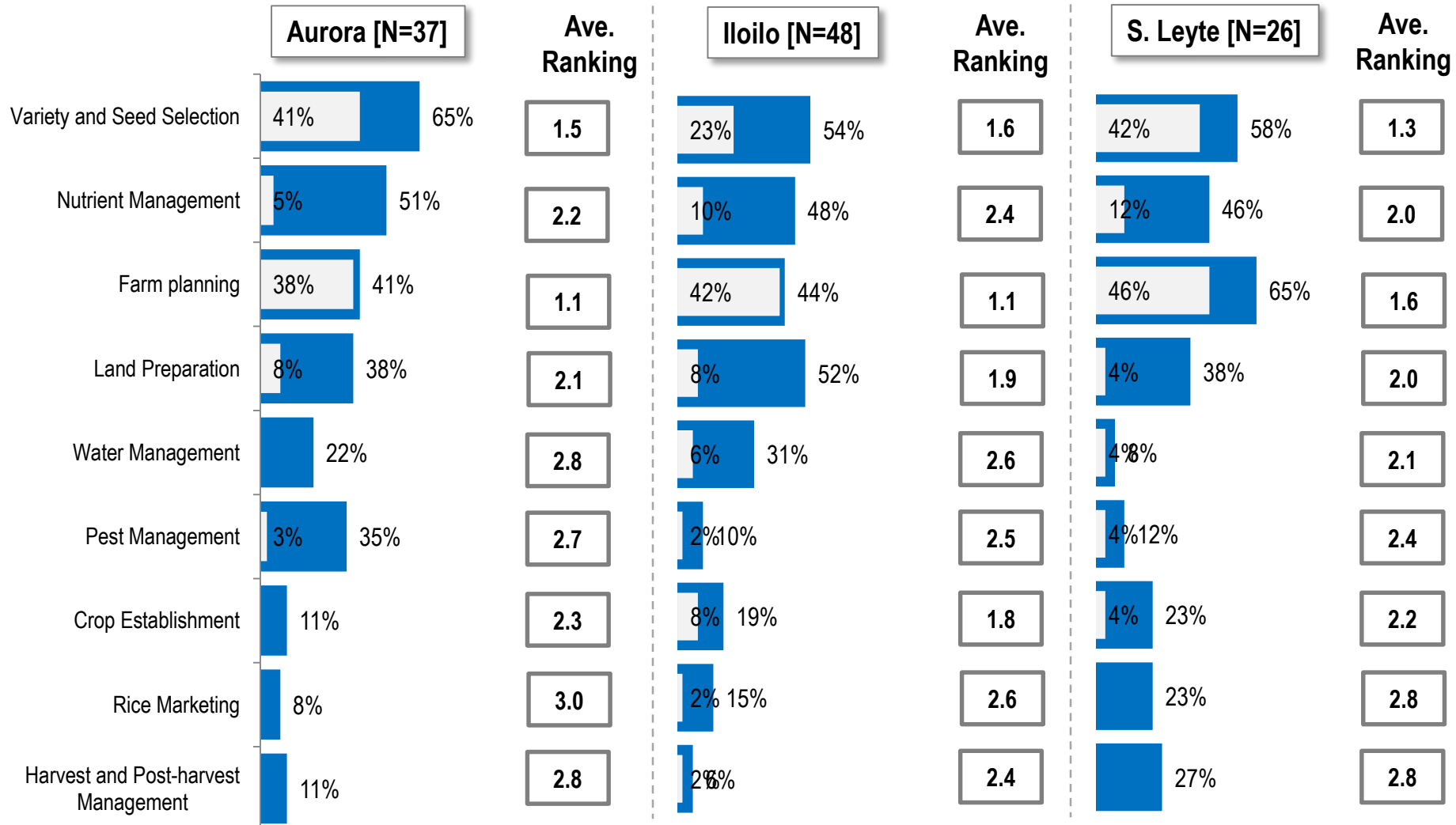
Q36. Top Three Aspects with Biggest Potential for Achieving Yield and Income Increase [Multiple Answers]



Top 3 Aspects w/ Biggest Potential for Achieving Yield & Income Increase

Apart from seed selection and farm planning, nutrient management is also vital in achieving higher yield and income.

Q36. Top Three Aspects with Biggest Potential for Achieving Yield and Income Increase [Multiple Answers]



Farming Knowledge Assessment

• *What is the current level of AEW's knowledge on different rice farming management? Which aspects have the biggest contribution in increasing yield and income in rice farming? Which sources of information is considered the best reference for rice production methods?*

- AEWs believe that proper land preparation is beneficial in water management as it can help in uniform distribution of water, thus, it will save water and drainage process would be easier.
- Aurora rice farmers are using both transplanting and broadcasting method in sowing. While Leyte farmers are mainly transplanting and Iloilo are direct sowing.
- AEWs in all three provinces agree that proper nutrient management should be most taken cared of during panicle initiation (at least 80% mention) in order to have good crops.
- Majority of Iloilo and Southern Leyte AEWs believe that rice field should have 3-5 water depth at early stage of the crop until flowering stage only, while Aurora extension workers believe that it should be from early tillering to close to maturity.
- Grain moisture content is mainly the basis across all provinces, to know if the rice crop is already mature enough for harvesting.
- Generally, extension workers have used their knowledge on different rice farming management in their fieldwork with farmers three times, on the average and reaching about 50-80 farmers.
- Province-wise, Aurora AEWs are reaching more number of farmers to train, with at least 70 compared to 60 and 55 of Iloilo and Southern Leyte.
- Government is playing a very important role in distributing information about rice farming method as they are perceived to have the most influence to rice farmers across all surveyed provinces.

Farming Knowledge Assessment

- ***What is the current level of AEW's knowledge on different rice farming management? Which aspects have the biggest contribution in increasing yield and income in rice farming? Which sources of information is considered the best reference for rice production methods?***

- Good variety selection is crucial in achieving higher yield and income in rice farming, having 60% overall mention, but proper farm planning got the most number of 1st ranking among AEWs especially in Iloilo (42%) and S. Leyte (46%).

At your disposal for any further queries:

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