

Annex 11- Evaluation

Water Management in Rice Production
4-8 October 2004
IRRI Training Center, Los Baños, Laguna

Evaluation Summary: Achu S. Arboleda, Training Center

Prepared for: Dr. Mark Bell, Dr. Vethaiya Balasubramanian, Mr. Jojo Lapitan, Dr. Bas Bouman, Engr. Domingo Tabbal,
 Dr. Ruben Lampayan, Engr. Eugene Castro, Jr., Ms. Marie Clabita, and other resource persons

Total evaluations	32							
Total participants	35							
Section A	Excellent	Good	Average	Fair	Poor	Avg.	Std. Dev.	
Overall Reaction	18	7				4.72	0.45	

Section B - Comments

Course Content

Strengths

of responses

73

Topics:

Principles and practices on alternate wetting and drying techniques	13
Aerobic rice	8
Principles of sound field water management	2
Soil-water plant relationships and water balance of rice fields	3
Technology transfer and implementation	2
Crop diversification	2
Rice production water saving technology	2
Water scarcity: an overview	5
Integrated crop management	2
Rice growth and development	2
Inventory of water shortage/delivery problems	1
NOA/TTWS Video	1
Focus Group discussions	3
Discussion on scaling up	1
Water saving techniques	2
Planning approaches	1

Others:

Very comprehensive and detailed	1
Substantive	1
Applicable to technical person/staff/farmers	3
Informative	5
Interesting	1
Theory and practical application approach-in depth	1
Wide coverage	1
Very timely and relevant to the present problems of NIA	4
Topics are simplified and organized	1
Useful	1
It helps improve our materials in conducting training	1
Suits the objectives	1
Integrated with social or human behavior	1
Well-organized	1

Things to improve on

of responses
20

Some topics on engineering/computation are not applicable	1
Some practical topics for farmers should be given more time	1
Too short for all courses	1
Lengthy-not concise or clear for some topics	1
Too many topics which are just "peripheral" to the main topic	1
Long/many subject matter per topic, that could be minimized to be more focused	1
Info overload	1
Management and performance of irrigation systems	2
Field demonstrations on land leveling techniques	2
Crop diversification	2
Exercise in computation of ET	4
Technology transfer on water saving	1
Real time N management	1
Crop diversification and Drip Irrigation-should be in a separate training or workshop	1

Methods of Delivery

Strengths

of responses

68

Others:

Excellent	2
Excellent visuals used	3
Competent lecturers/facilitators	2
Support from other IRRI staff is excellent	1
Multimethod	1
Practical	3
Advanced	1
Visuals were advanced and high tech	1
Lectures	8
Field practice/demonstration	17
Participative	1
Interactive	1
Dynamic	3
Detailed	1
Well-presented	1
Discussions	4
Video showing	3
Powerpoint presentations were excellent	8
The venue is excellent	1
ICM field exercise	1
Handouts	1
Workshops (Problem & solution inventory)	1
Group brainstorming	1
Interactive	1
Unique	1

Things to improve on

of responses

15

Some topics were delivered a little fast	1
Too much ad lib	1
Few or no examples; if ever there is, not related to the topic	1
Some presentations are too long/should consider time limit per topic	1
Shorten presentations to 15 minutes and have more allowance for discussion to prevent overtime	1
Lack time for some topics	1
Field trips to farms practicing water saving technology should be conducted	2
Very long lectures	2
Too tight schedule	2
Incomplete handouts	1
Lectures after 5 pm (overtime)	1
Time Management	1

Section C - Topics

Course Topics	Content					Avg.	Std. Dev.
	Excellent	Good	Average	Fair	Poor		
	25	16	9	4	1		
	5	4	3	2	1		
1 Water Scarcity: an overview (BBouman)	27	4				4.87	0.34
2 Aerobic rice: a new water-saving technique (RLampayan/ALactaoen/AEspiritu)	19	12				4.61	0.00
3 Principles and practices of alternate wetting and drying (AWD): A water saving technique (RLampayan/JdeDios)	19	11	1			4.58	0.00
4 Group activity: inventory of water shortage/delivery problems (BBouman/Gzarsadias)	18	11	1			4.57	0.00
5 Rice growth and development (ECastro,Jr./JdeDios)	20	9	3			4.53	0.00
6 Soil-water-plant relationships and water balance of rice field (DTabbal/TGAguinardo)	17	13	1			4.52	0.00
7 Focus-group discussions: uses and method (KBarroga)	18	11	2			4.52	0.00
8 Field exercise: focus-group discussions with farmers on water shortage/delivery problems (Participants)	16	11		1		4.50	0.00
9 Group Activity: inventory of water- saving options and constraints (BBouman/GZarsadias)	18	12	1	1		4.47	0.00
10 Video showing: Needs and Opportunities Assessment (NOA)/Technology Transfer on Water	18	10	2	1		4.45	0.00

Savings (TTWS)
(RLampayan/ALactaen)

11	Overview of impact design framework: how diagnostic tools fit in impact design (MEscalada)	13	11		1	4.44	0.00
12	Field demonstrations and exercises on instrumentation for field water measurement (RCabangon/VTTaylan)	17	10	4		4.42	0.00
13	Technology transfer and implementation:TTWS model (RLampayan)	15	14	2		4.42	0.00
14	Real-time N management: LCC (field exercise) (ECastro,Jr./JdeDios)	15	14	2		4.42	0.00
15	Values grid in water-saving technology:an introduction (MEscalada)	16	10	2	1	4.41	0.00
16	Weed management under water-short conditions (JJaniya/JdeDios)	13	18		1	4.34	0.00
17	Finalization of values grid (the positive and negative values) (Participants/Mescalada)	15	14	2	1	4.34	0.00
18	Principles of sound field water management (DTabbal/TGAguinardo)	14	12	4		4.33	0.00
19	Farmer surveys: theory, practice, and logistics (MEscalada)	10	15	2		4.30	0.00
20	Irrigation methods (drip/sprinkler irrigation) (AEspino/TAguinardo)	13	15	3	1	4.25	0.00
21	Diagnostic tools and farmers' knowledge:short introduction (MEscalada)	11	18	3		4.25	0.00
22	Integrated Crop Management (field exercises) (ECastro,Jr./JdeDios)	12	16	3	1	4.22	0.00

23	Management and performance of small water-impounding irrigation schemes (farmer managed) (SContreras)	11	16	5		4.19	0.00
24	Farmers' decisions-theoretical framework and quantification (MEscalada)	11	17	3	1	4.19	0.00
25	Management and performance of irrigation systems (NIA managed) (MSagum/AMMejia)	8	19	4		4.13	0.00
26	Field demonstration on land-leveling techniques (field activity) (JRickman/AManza)	8	16	6		4.07	0.00
27	Exercise on computation of ET and water requirement (TGAguinardo/DTabbal)	8	13	9	2	3.84	0.00
28	Crop diversification (ALactaoen)	5	18	8		1 3.81	0.00

	Usefulness to work					Average	4.36	0.01
	Extremely	Very	Useful	Somewhat	Not	Avg.	Std. Dev.	
Water Scarcity: an overview (BBouman)	20	9	2			4.58	0.00	
Principles and practices of alternate wetting and drying (AWD): A water saving technique (RLampayan/JdeDios)	19	9	2			4.57	4.61	
Field demonstrations and exercises on instrumentation for field water measurement (RCabangon/VTTaylan)	17	11	2			4.50	4.54	
Aerobic rice: a new water-saving technique (RLampayan/ALactaoen/AEspiritu)	16	13	1			4.50	4.54	
Group activity: inventory of water shortage/delivery problems (BBouman/Gzarsadias)	15	12	3			4.40	0.66	
Field exercise: focus-group discussions with farmers on water shortage/delivery problems (Participants)	17	9	3	1		4.40	0.00	
Principles of sound field water management (DTabbal/TGAguinardo)	15	10	4			4.38	4.44	
Technology transfer and implementation: TTWS model (RLampayan)	14	13	3			4.37	0.66	
Group Activity: inventory of water-saving options and constraints (BBouman/GZarsadias)	14	14	3			4.35	4.40	
Soil-water-plant relationships and water balance of rice field (DTabbal/TGAguinardo)	15	10	5			4.33	0.00	
Focus-group discussions: uses and method (KBarroga)	13	13	4			4.30	0.00	
Video showing: Needs and Opportunities Assessment (NOA)/Technology Transfer on Water Savings (TTWS) (RLampayan/ALactaoen)	13	13	3	1		4.27	4.34	

Overview of impact design framework: how diagnostic tools fit in impact design (MEscalada)	12	6	5	1		4.21	0.00
Real-time N management: LCC (field exercise) (ECastro,Jr./JdeDios)	10	15	4			4.21	0.00
Values grid in water-saving technology:an introduction (MEscalada)	13	10	5	1		4.21	0.00
Finalization of values grid (the positive and negative values) (Participants/Mescalada)	13	10	5	1		4.21	0.00
Weed management under water-short conditions (JJaniya/JdeDios)	11	16	3	1		4.19	4.26
Integrated Crop Management (field exercises) (ECastro,Jr./JdeDios)	10	11	9			4.03	0.00
Farmers' decisions-theoretical framework and quantification (MEscalada)	10	12	7	1		4.03	0.00
Management and performance of small water-impounding irrigation schemes (farmer managed) (SContreras)	11	10	10			4.03	4.12
Rice growth and development (ECastro,Jr./JdeDios)	13	8	8	2		4.03	0.00
Farmer surveys: theory, practice, and logistics (MEscalada)	8	10	8			4.00	0.00
Diagnostic tools and farmers' knowledge:short introduction (MEscalada)	6	16	8			3.93	0.00
Crop diversification (ALactaen)	10	10	9	2		3.90	0.00
Management and performance of irrigation systems (NIA managed) (MSagum/AMMejia)	7	13	7	4		3.74	3.86
Irrigation methods (drip/sprinkler irrigation) (AEspino/TAGuinaldo)	8	11	8	4		3.74	3.87
Field demonstration on land-leveling techniques (field activity) JRickman/AManza)	7	8	13	1		3.72	3.82
Exercise on computation of ET and water requirement (TGAgualdo/DTabbal)	8	8	9	6	1	3.50	0.00

Average 4.17 1.72

		Presentation					Avg.	Std. Dev.
		Excellent	Good	Average	Fair	Poor		
1	Water Scarcity: an overview (BBouman)	24	7	1			4.72	0.00
2	Principles and practices of alternate wetting and drying (AWD): A water saving technique (RLampayan/JdeDios)	18	10	1			4.59	0.00
3	Focus-group discussions: uses and method (KBarroga)	19	10	2			4.55	0.00
4	Group activity: inventory of water shortage/delivery problems (BBouman/Gzarsadias)	18	10	2			4.53	0.00
5	Group Activity: inventory of water-saving options and constraints (BBouman/GZarsadias)	17	12	2			4.48	0.00
6	Rice growth and development (ECastro,Jr./JdeDios)	17	13	2			4.47	0.00
7	Aerobic rice: a new water-saving technique (RLampayan/ALactaon/AEspiritu)	16	12	2			4.47	0.00
8	Technology transfer and implementation: TTWS model (RLampayan)	16	12	1	1		4.43	0.72
9	Values grid in water-saving technology: an introduction (MEscalada)	17	10	2	1		4.43	0.00
10	Field demonstrations and exercises on instrumentation for field water measurement (RCabangon/VTTaylan)	14	14	2			4.40	4.44
11	Video showing: Needs and Opportunities Assessment (NOA)/Technology Transfer on Water Savings (TTWS) (RLampayan/ALactaon)	15	13	1	1		4.40	0.00
12	Irrigation methods (drip/sprinkler irrigation) (AEspino/TAguinardo)	15	14	1	1		4.39	0.70

13	Overview of impact design framework: how diagnostic tools fit in impact design (MEscalada)	11	12		1	4.38	0.00
14	Field exercise: focus-group discussions with farmers on water shortage/delivery problems (Participants)	14	15	1	1	4.35	0.00
15	Farmer surveys: theory, practice, and logistics (MEscalada)	11	13	2		4.35	0.00
16	Soil-water-plant relationships and water balance of rice field (DTabbal/TGAguinardo)	14	13	4		4.32	0.69
17	Weed management under water-short conditions (JJaniya/JdeDios)	13	16	1	1	4.32	0.00
18	Finalization of values grid (the positive and negative values) (Participants/Mescalada)	14	14	2	1	4.32	0.00
19	Real-time N management: LCC (field exercise) (ECastro,Jr./JdeDios)	12	17	1	1	4.29	0.00
20	Diagnostic tools and farmers' knowledge:short introduction (MEscalada)	11	18	2		4.29	0.00
21	Farmers' decisions-theoretical framework and quantification (MEscalada)	12	16	3		4.29	0.00
22	Integrated Crop Management (field exercises) (ECastro,Jr./JdeDios)	11	17	2	1	4.23	1.34
23	Principles of sound field water management (DTabbal/TGAguinardo)	12	12	5	1	4.17	0.00
24	Field demonstration on land-leveling techniques (field activity) JRickman/AManza)	8	16	4	2	4.00	0.00
25	Management and performance of small water-impounding irrigation schemes (farmer managed) (SContreras)	8	13	9		3.97	0.00
26	Exercise on computation of ET and water requirement (TGAguinardo/DTabbal)	8	8	12	4	3.63	0.00

27	Crop diversification (ALactaoen)	7	8	15	1	1	3.59	0.00
28	Management and performance of irrigation systems (NIA managed) (MSagum/AMMejia)	4	12	12	3		3.55	0.00
							Average	4.28
								0.28

D. Topics To Be Added

- 1 Nutrient Mgt. -practical approach
- 2 A sort of background knowledge on basic soil physical characteristics and chemistry
- 3 Simulations on water-saving techniques/Demo farm must be shown
- 4 Educational tours on areas adapting WS practices
- 5 At least two hours shopping
- 6 Step-by-step (simple illustrations) in conducting social science research on water management from stakeholder/problem analysis until impact
- 7 Design/evaluation.
- 8 More field visits on demos for Aerobic rice from early stage up to maturity of flowering stage.
- 9 Crop Protection (Insect Pest Management)
- 10 Detailed explanation on Computation of Evapotranspiration. What's the difference among the others? (re: 4 methods of computation)
- 11 Symptoms of water flooded condition in rice
- 12 More examples on Integrated Crop Management Systems
- 13 Institutional Linkages
- 14 Economic Aspect: How much in terms of pesos (or monetary terms) can be saved from water-saving techniques/technologies
- 15 Social Aspect
- 16 Dry land preparation and method of irrigation on Aerobic rice production

E. Topics To Be Left Out

- 1 Water Method computation-technical computation
- 2 Topics on planning can be shortened by introducing already proven techniques on data gathering for proper planning
- 3 Demonstration on Land Leveling as it can be included in Sound Field Water Management topic
- 4 Weed Management
- 5 Pressurized irrigation system (drip) save for separate training

F. Impact		Yes	No	No Answer
1	Do you feel confident enough to share what you have learned from this workshop?	31		
2	Following this workshop, would you be willing to share what you have learned with colleagues?	31		
3	Will this workshop be helpful to your work?	31		
4	Would you recommend this workshop to other people? Why?	31		
	* With some modification of the course lectures, ARTech and WST, very important technique to mitigate problems on water scarcity and create awareness for an available technology that will improve crop production.			
	* Relevant			
	* The course will be incorporated in the System Management Workshop required by NIA viability			
	* Because it is very important to the farmers			
	* Because I believe this training would enhance farmers adoption of WST.			
	* Very important			
	* As more and more people understand or are aware of water-saving technologies, diffusion/adoption process is enhanced/accelerated.			
	* So others, especially NIA people would know the technology.			
	* It will be very useful to my work as a farmer-leader.			
	* To conserve soil and water management			
	* It is the correct practice (water mgt.) needed by the time since most of our irrigation systems experience lack of irrigation water			
	* So that everybody will know the importance of using irrigation water and how to use it effectively			
	* To become aware of the importance of saving water for generations to come			
	* To have an awareness on how to use irrigation water whereby large scale of area will be beneficial			
	* Everyone should understand the importance of water and how can we save it.			
	* We should know water saving system in rice production			
	* Sustainability of technology transfer			
	* Sufficient knowledge will be gained through the training			
	* To increase awareness on the global issues related to water shortage			
	* This way, it could help us to disseminate the technology			
	* Because this course is a complete package on Integrated Water Management			
	* To help in the facilitation or implementation of the project			
5	Do you think the action plans that you developed could be implemented in your project site?			
		Yes	No	
		22	2	
6	If your answer to #5 is no, what do you foresee would be constraints to the non-implementation of this action plan to your project site?			
	* Financial constraint			

G. Additional Comments

- * Subject matter were all equally important. However, the subject matter that is directly related to Aerobic Rice and AWD should be given more emphasis. The peripherals should be left out to avoid "overloading" of information.
- * Presentations should be concise, cover only the most important issues/findings, etc. This will shorten the presentation, and avoid boredom.
- * It is expected that a follow-up training-workshop be conducted by IRRI to expect tangible results/implementation.
- * In this training, duration should be given consideration. One week is not enough. Tedious on the part of the participants.
- * The training center is very conducive to learning.
- * Excellent topics. Wish for more trainings.
- * Thank you so much for imparting/transferring technologies on water savings.
- * All were in order/organized including logistical and financial support.
- * Training materials/facilities and visuals are well-prepared.
- * Time management/budgeting effective
- * The conduct of the five-day seminar was excellent; the course content was aptly designed for the present-day scenario.
- * The organizer and staff of the training were excellent
- * Since the training consists of Agricultural Sciences (ET, P, etc.) and planting techniques including participatory planning for TTWS possible trainers/lectures; The combination of participants per region, if funding permits should be a researcher (agriculturist), institutional officer (extension workers) and operation engineers (program implementation) that will incorporate their expertise for easier transfer of tech to farmers.
- * I suggest that this course be incorporated as a line budget in all agencies involved in training such as ATI, PhilRice, NIA, BSWM, etc. IRRI to design training for a team of different agencies to work together for a closer and stronger group implementation.
- * Technologies on Water Mgt. had a short time. Better to have more time on lecture and laboratory to gain expertise.
- * No vending machine nearby that sells toiletries (such as sanitary napkins) for women
- * Cannot practice waste segregation in the dormitory room because trash cans have no label.
- * Keep up the good work! Mabuhay IRRI ! And thanks to ADB
- * On topic on Crop Diversification, the lecturer should have given study results comparing rice-rice to rice-non-rice cropping patterns.
- * The lecturer on Management of Irrigation System (NIA) should have submitted his paper earlier. The handout was incomplete.
- * All the course content and methods of delivery were excellent, however, more time as in two weeks should be given to the course to allow more discussions.
- * Decompress # of lectures; too hectic schedule
- * I am determined to conduct an echo seminar to farmer leaders
- * Participatory frameworks for scaling up session should be brief and easily understood

RESULTS OF EVALUATION
Integrated Field Water Management in Rice Production
November 8-12, 2004

No. of Respondents

26

Overall Rating

Excellent

Good

12

24

* Five (5) participants did not submit evaluation forms.

* Three (3) participants did not answer "Overall Rating".

Usefulness to

TOPICS

Content

work

Presentation

	E	G	A	F	E	G	A	F	E	G	A	F
1. Water scarcity: An overview (RLampayan)	18	11	0	0	15	11	0	0	16	10	0	0
2. NIA-managed irrigation systems (AMejia)	10	15	4	0	8	14	1	0	12	11	3	0
3. Farmer-managed SWIS (JTabago)	8	13	6	0	6	12	1	0	6	10	7	0
4. Water balance and sound field ... (DTabbal)	15	13	1	0	10	16	0	0	11	15	0	0
5. Soil-water-plant relationships (DTabbal)	19	10	0	0	18	8	0	0	15	10	1	0
6. Exercise on ET computation	9	17	2	1	13	11	2	0	5	16	4	1
7. Field demo and exercises on instrumentation	13	14	1	0	11	13	1	0	7	14	4	0
8. Principles and practices of AWD (RLampayan)	12	17	1	0	10	13	3	0	6	20	1	0
9. Aerobic Rice: A new ... (RLampayan)	13	15	1	0	13	9	4	0	11	13	2	0
10. Crop diversification (Qdela Cruz)	7	14	4	0	11	7	4	0	8	10	4	0
11. Technology transfer.. (TTWS) (RLampayan)	10	16	2	0	10	11	3	0	7	17	1	0
12. Video showing: NOA & TTWS (RLampayan)	10	18	0	0	11	12	2	0	10	14	1	0
13. Pressurized irrigation systems (IAgulto)	15	13	1	0	13	12	1	0	14	9	3	0
14. Visit to CLSU projects (AEspino & ESicat)	13	14	1	0	12	13	0	0	12	11	2	0
15. Diagnostic tools ... (MEscalada/KBarroga)	16	11	2	0	13	12	1	0	11	12	1	1
16. Farmers' decisions ... (MEscalada/KBarroga)	15	12	2	0	13	12	1	0	12	13	0	1
17. Focus group discussions (KBarroga)	17	12	0	0	16	10	0	0	15	10	1	0
18. Values grid in water ... (MEscalada)	9	12	1	0	8	9	2	1	9	8	3	0
19. Farmers' surveys: theory... (MEscalada)	5	10	2	0	5	7	2	0	4	8	2	0
20. Overview of scaling up framework (MEscalada)	9	9	1	0	7	8	1	1	7	8	2	0

E - Excellent

G - Good

A - Average

F - Fair

STRENGTHS OF THE COURSE:

A. Course Content

1. Topics are informative
2. Serves as a refresher course
3. Timely, because we will be experiencing water scarcity in our area
4. Resource persons are experts
5. Favorable packaging of programs/topics
6. Balance in terms of technical and sociological
7. Very interesting, complete, substantial
8. Relevant to current situation in agricultural production
9. Very useful in extension
10. Challenging, informative
11. Well-organized
12. Different methods of water saving technologies
13. Practical field works
14. FGD with farmers for problem solving
15. Soil-water-plant relationships
16. Balance between theory and practice
17. Wide enough, focused, factual
18. Mixture of technical and non-technical issues
19. FGD uses and methods
20. Aerobic rice: A new water saving technique
21. Principles of Alternate Wetting and Drying (AWD)
22. Relevance to water management; relevance in the field
23. Objectives are well-defined
24. Topics relevant to the theme
25. Relevance, timeliness, adaptability
26. Comprehensive enough to cover topics that reinforces water-saving techniques
27. Contains baskets of technology leading to efficient and effective technology transfer for water savings
28. Expertise/familiarity on the subjects
29. Complete hard copy; clear and orderly arranged handouts
30. Topics are appropriate; just enough for time allotted
31. Practical to farmers' adaptation
32. Brief course content
33. Useful to work
34. Order of topics were followed
35. Very useful in hybrid rice production
36. Materials/resources used were adequate in discussing the course

B. Methods of Delivery:

1. Topics were clearly and thoroughly explained
2. Facilitators used effective methods and techniques in the discussion
3. Course was carried out through organized and systematic discussion and activities. exercises
4. Well presented; data needed were presented
5. Very much appreciated and really need to be recognized
6. Lecturers were very much prepared and they did what were expected from them
7. Methods made the participants comfortable to easily understand the essence of topics
8. Clear; complete

9. Smoothness; audio-visuals are perfect; trainers and speakers are effective
10. Simple; easily taken/understood
11. The methods are good
12. Visual presentation; audio-visuals are good+A105
13. High-tech facilities for an excellent delivery of all the papers presented
14. Well-prepared; knowledgeable; professional
15. Confident; well-organized
16. Diverse methods of sharing the technical ideas had been enough
17. Electronic files were provided for LCD presentation in the near future
18. Hard copies were immediately available to the participants for review
19. Clear; definite; concise; logical
20. Mastery of the subject matters
21. Complete references and other logistics
22. Expert speakers/resource persons
23. FGD uses and methods
24. Management and performance of SWIS
25. Crop diversification
26. Use of multi-media
27. Translation of technical terms to layman's words
28. Field visits/practicum
29. Unequal distribution of time allocations per topic
30. Use of multiple methods
31. Water-saving technology; soil-water-plant relation
32. Demonstration with easily locally available instruments
33. Providing training materials that can also be useful to transfer technology to others
34. Group discussions with participants
35. Good power point presentations
36. Very participatory in approach

WEAKNESSES OF THE COURSE:

A. Course Content

1. Include more field visits where there are pilot areas practicing water-saving techniques
2. Lack of "lakbay-aral" re sites with existing water saving techniques
3. No actual demo on water saving technology transfer
4. Programs are not followed properly/orderly
5. Some topics are not related in the course
6. Sociological aspect - techniques/strategies in solving sociological problems arise in farm level
7. Overlapping of some topics; some were based only on experiences in their own places but not suitable in other places.
8. Not systematic arrangement of the course contents in terms of compilation
9. Management and performance of NIA
10. Management and performance of SWIS
11. Some are too technical
12. General objectives and mechanics were not presented in the opening program
13. No course break or free time for participants
14. Add some topics; some issues are hanging

15. Heterogeneity of group composition
16. Availability of speakers on the schedule; training made some deviations on sequence
17. More time should have been given on ET calculation especially for non-AgEn participants
18. More exercises on field work
19. While computation of Etc was done, no demonstration/effort was done to give an overview on how a cropping calendar is being prepared
20. Subjects interrelationships
21. Systematic arrangements of handouts specifically table and topics
22. Actual field activities should be strictly followed
23. Lack computers/calculators during computation of ET
24. Lack of values reorientation activities
25. Local social development (values orientation)
26. Topics on values formation should be added
27. Needs further improvement; delete topics that are to be removed and add more important and beneficial to the farmers/clienteles

B. Methods of Delivery

1. More scientific calculators must be provided
2. Some speakers spoke not so clear to the ears
3. Some topics need additional time allotment
4. Scheduling hectic
5. Area for demonstration set are bias environment for FGD
6. Loudness of voice of some of the speakers during presentation
7. Strategies in delivering of topics (audience attention)
8. Some of the speakers brags; they should not assume that their knowledge gained are the same with their audience; always be humble speaker; and always think their audiences have different knowledge level and as well as courses (field of specialization) e.g. Ag En ≠ Agronomy ≠ Soil Science ≠ etc.
9. More advanced calculators should be used
10. Non-use of pointer for some speakers; some speakers stay only on one side of the hall
11. Lack of practical examples for some topics
12. Need additional time for some topics; time is short for various topics
13. Flip charts/materials for demonstration and instruction shall be more helpful to all participants for technology promotion
14. Documentation of processing of work group results is needed
15. Limited actual field visit
16. One resource person handles too many topics
17. Sequence of topics was not followed due to conflict in schedule of speaker
18. Limited practical exercises; limited practical applications
19. Management and performance of SWIS
20. If possible, avoid jumping of topic discussions
21. Not all speakers delivered clearly/effectively their topics
22. Some are not fluent in delivering their topics
23. Lack of field instruments for field water measurements
24. Short time for ET computations
25. some topics need more time
26. Lack of instrumentation field water measurement

WHAT OTHER TOPICS SHOULD BE ADDED?

1. Values re-orientation/formation
2. Social engineering related topics
3. Strategies in solving sociological problems/techniques in farm level
4. Statistical tool for analyzing qualitative data
5. Integrated crop management
6. Weed management
7. Managing socio-cultural change
8. Group dynamics/team building
9. Extension methods/strategies
10. Social marketing
11. Principles of communication
12. Participation and development
13. Development playing - using the logical framework
14. Comparison of water losses in different methods of irrigation
15. Effect of water on availability of nutrients/elements
16. Planning for doing FGD
17. Irrigation management tools (computer models, etc.)
18. Computer applications in water saving technologies
19. Something related with crops adaptable to specific soil and climate conditions - that is to generally correct the "gaya-gaya" system of producing crops but instead establish crops specifically for each region or island.
20. Other new component technologies that are directly related to water savings aside from aerobic rice, etc.
21. Weeds and nutrient management
22. Preparation of cropping calendar
23. Emphasis on increasing population as cause of water shortage, food scarcity and pollution
24. Integration of values reorientation activities in any techno-transfer to equip participant's good interpersonal skills aside from management and technical skills, so with the farmer client tells, too.
25. Management, maintenance, monitoring and performance evaluation of irrigation systems (it was partially part in the course content but only not presented as it was)
26. Follow-up training on power point presentation and SPSS

WHAT SHOULD BE LEFT OUT?

1. Crop diversification
2. Management and performance of SWIS
3. Strike balance between technical and non-technical aspects of irrigation management
4. Drip irrigation should not be included in technology transfer for water saving particularly rice (not possible)
5. Aerobic rice
6. ET determination because I found out not to be given consideration anymore, considering the duration of the training and unavailability of materials in the computation like calculator and likewise the level of knowledge of some participants
7. Crop diversification, because the lecturer accidentally mentioned during his delivery that he was presenting/introducing this technology so long ago but he was wondering that until now only few or none at all adopted it.