

Terminal Report

Project Title:	School-on-the-Air (SOA)/Eskuela iti Tangatang on Goat and Swine Production and Processing
Proponent/ Implementing Agency:	Applied Communication Extension Directorate Mariano Marcos State University (MMSU)
Cooperating Agency/ies:	Provincial Government of Ilocos Norte (PGIN) Ilocos Norte LGUs ILAARRDEC/ILAARRDEC-RAISE Agricultural Training Institute (ATI) Gender and Development College of Agriculture, Food and Sustainable Development (CAFSD) Research Directorate DWFB Radyo Pilipinas, 954 khz Laoag City DWCI 105.1 Mhz LGU-Piddig, Ilocos Norte DWNl Radyo Karruba, Burgos LGU-Burgos, Ilocos Norte
Source of Fund:	MMSU (Fund 164/184) GAD ILAARRDEC/ILAARRDEC RAISE
Duration:	7 months (June 2023-February 2024)
Total Budget:	P600,000.00

I. RATIONALE

The Covid-19, to a great extent, affected the lives of majority of people all over the world. It immobilized community people in most, if not all areas. Livelihood activities were affected. The agriculture particularly the livestock sector is one of the most affected areas. Until now, the effect of the pandemic is still evident. Lately, the African Swine Fever (ASF) also affected to a large extent, the livestock growers in the country, in general, and the province in particular.

The School-on-the Air (SOA)/Eskuela iti Tangatang which was initiated and implemented for several years now really made a big difference during the pandemic. The SOA provided a sustained source of relevant information and technologies to communities even during lockdowns.

Radio has been used extensively as an educational medium in developing countries as well as a source of information which creates a widespread awareness to a certain community. Radio is considered as the most accessible of all media and that most people can be reached at a relatively low cost. Thus, radio has a wide potential in educational delivery. Likewise, radio is an effective tool in disseminating information because of its attributes. Among these are: first, universality which means readily available; 2: popularity as it reaches audiences with low literacy levels especially those who are in far-flung areas

where the quality and standards of education may be inadequate; 3) diversity as it caters to a large number of listeners at a time; 4) immediacy because it provides live broadcasts; and 5) the use of sound. This allows full utilization of the human voice for communicating with the audience. This helps in establishing rapport, and in the process, credibility is enhanced and the interest level is sustained. In addition, radio can be used in combination with other media such as print and interpersonal communication.

Based from the evaluations conducted every after SOA airing and the overall airing, responses showed that majority of the enrollees rated the SOA as excellent in terms of the different parameters. These include the duration and time of airing, Topics aired, Comprehensibility of the topics aired, Time provided in every airing, How the SOA is aired, Selection of Speaker or lecturer, Program Host/Broadcaster.

Complementary activities and support strategies like the development, production, and distribution of Information, Education, and Communication (IEC) materials, publication of press releases, and the use of social media, resulted to increase in adoption and utilization of technologies by the SOA graduates. Their interest to join more SOA were strengthened.

The positive feedback from enrollees and graduates and their continued support and aspiration on the sustained conduct of the SOA is an indication that the strategy is relevant in providing the emerging needs of the community.

In addition, with the approval and implementation of the Collaborative Provincial Agriculture and Fisheries Extension Program of the Ilocos Norte Agriculture and Fisheries Extension System (INAFES), with Information and Knowledge sharing as one of the strategic extension support services to be conducted of which the SOA, production of IEC materials are included, the SOA was conducted. Topics were focused on the priority commodities of community members in Ilocos Norte. Thus, information and technologies aired in the SOA are relevant to the actual needs of the community members.

OBJECTIVES

Generally, the SOA aimed to promote information and technologies that will boost the potential of goat and swine production in the province, as a source of livelihood.

Specifically, the SOA aimed to:

- 1. Promote the use of all available resources in the community for the benefit of goat and swine production;
- 2. Increase level of Knowledge, Attitude, Skills, Practices, and Values (KASPV) of community households on goat and swine production that will lead to creation of livelihood opportunities; and
- 3. Strengthen partnership with LGUs and other stakeholders in Ilocos Norte.

IMPLEMENTATION/MANAGEMENT STRATEGIES

The following strategies were followed in the conduct of the SOA. These management strategies significantly contributed to the success of the SOA program.

- 1. **Organization.** The Extension Directorate through its Applied Communication (APCO) Section spearheaded the implementation of the SOA.
 - a. Experts from the Units and College including agency-partners provided the technical expertise during the SOA airing.
 - b. The TCE and Technology Demonstration assisted in the implementation of the SOA

- c. The clients are the interested community members composed of farmers, fisherfolks, entrepreneurs, students, and out-of-school youth.
2. **Financing.** Financial counter-parting was done from the various stakeholders. MMSU through the Extension Directorate provided the manpower for the project implementation including additional funds. Counterpart funds from the PGIN thru the INAFES project, ILAARRDEC, and other partner-agencies provided additional fund support.
3. **Partnership agreements.** A memorandum of agreement (MOA) was signed between and among partners. The agreement formalizes the partnership wherein the roles and obligations of each party are stipulated. Basically, MMSU and PGIN spearheaded the conduct of the SOA and carry-out the aims and objectives of the project.

In addition, the LGU partners, through their City/Municipal Agriculture Offices (CAO/MAO) provided the following:

- a. Assistance in the identification, evaluation, assessment, selection, and enlistment of project partners and project sites including the sustained monitoring and evaluation of the SOA;
 - b. Acted as coordinator between MMSU and the project partners within its area of jurisdiction on concerns pertinent to the project; and
 - c. Assigned one from among its agricultural technologists/technicians or agriculturists to serve as SOA coordinator.
4. **Communication and coordination.** Communication and coordination among the partners was made. Meetings and dialogues among the partners were done from time to time and as the need arise. Formal communications were made whenever necessary.
 - a. **Information campaign.** The Extension Directorate used a combination of a variety of campaign strategies to let the public know about the SOA. The strategies include sending letters of information and invitation to local government units, and other potential partners and sponsors; sending information to potential clients via the internet; conducting personal visits and dialogues; making phone calls; and announcing it over the radio.
 - b. **Sustain the use of the KaSOA Group Created.** This strategy facilitated the coordination and monitoring of activities between and among the enrollees and project partners. Enrollees were added as members of the group.
 - c. **SMS Messaging.** Enrollees and coordinators actively participated in the SOA. This is also a strategy to determine whether or not the enrollees are listening. This also served as venue where the enrollees could ask their questions and share their ideas on the topic discussed. All SMS were recorded to ensure that all queries are answered.
 5. **Production and Distribution of IEC Materials.** As a complementary material to the topics aired in the SOA and as part of the strategy to increase the level of knowledge among community members/enrollees, IEC materials were designed, produced and distributed during and after the SOA period.
 6. **Monitoring and Evaluation.** The operation of the SOA are monitored and evaluated before, during, and after each airing. The SOA coordinators and the other Agricultural Technologists from the LGUs and other team members facilitated this activity.
 7. **Follow-up/Enhancement Trainings** Follow-up activities were made to enrollees to verify what information and technologies were tried and adopted, know what problems and

needs they have in the adoption of technologies, provide continuous technical services to sustain the utilization of technologies, link the clients to and for assistance by other agencies; provide material or financial assistance wherever available, and other post-implementation services to ascertain that the SOA have to have impact on the lives of the enrollees/graduates.

HIGHLIGHTS OF ACTIVITIES

The implementation of the School on the Air (SOA) Program provided the beneficiaries and other community members the needed technologies and information on swine and goat production and processing. The following were the activities conducted during the SOA.

1. Inception Meeting

Inception meeting with the coordinators was conducted to orient the participating LGUs on the SOA project. This was attended by designated SOA coordinators from the different LGUs in the province. The following information were discussed in the inception meeting.

- Review of the past SOA and the SOA for 2023-2024
- Total number of enrollees per LGU
- Distribution of enrollment forms, attendance sheets, class records and summary list of enrollees
- Mode of presentation/broadcast and airtime
- Submission of enrollment forms
- Initial broadcast
- Requirements for graduation

The inception meeting also provided the program implementers the opportunity to identify issues and concerns including the priority topics to be aired in the program. Timelines were agreed and finalized between and among the participants.

2. Time and Schedule of Airing

Lectures were aired in three local radio stations in the province. In addition, the program was also aired via FB live to reach more number of audience and at the same time, address the demand of some enrollees to join the SOA via FB live.

Radio Station	Time of Airing/Day	Location/Address
DWFB Radyo Pilipinas-Laoag	12-1/Wednesday and Friday	Laoag City and City of Batac, Transmitter Site
	FB live via MMSU Extension Directorate FB Page. There are also times that the program/fb live is shared by MMSU Official Fb page.	
DWCI 105.1 Radyo FM	5-6 a.m./Tuesday and Thursday	Piddig, Ilocos Norte
DWNI Radyo Karruba	11-12 noon/Wednesday and Friday	Burgos, Ilocos Norte

3. Number broadcast conducted

Initially, the program targetted a total of 43 episodes for the duration of the SOA. With some requests and demand for additional relevant topics to be discussed, a total of 60 airings per station were accomplished, yielding a total of 180 airings for the three radio stations. In addition, 60 live broadcast was also aired via FB live of Radyo Pilipinas and the official FB Page of the Extension Directorate.

The initial broadcast was conducted on June 7, 2023 and ended March 6, 2024. The Top Achiever’s Examination was conducted on March 15, 2024.

Among the topics discussed included the following:

- Fees and feeding Management for both swine and goat
- Disease and Health Management
- Breeding, Reproduction, and Selection of Farm Animals
- Animal Insurance
- Farm Planning, Budgeting, and Record Keeping
- Goat Housing and Silage Making
- Renewable Energy
- Occupational Safety
- Grit and Resilience: A Guide to Facing Life’s Challenges and Adversities in Livestock Production
- Capital and Waste Management
- Value Adding Techniques

4. Number and Characteristics of Enrollees

Almost all the enrollees grows swine and goat, both fattener and breeder. In addition, majority of the enrollees are male (745) and 590 are female.

In terms of accessibility and preference on the mode of airing, majority of the enrollees (582) preferred for FB live, 466 of them answered that they will listen thru radio station DWFB Radyo, Pilipnas, Laoag, 144 for DWCI Radyo Adjo Piddig, and 66 for DWNl Radyo Karruba Burgos. Their preference on the mode of airing is influenced by their location where the radio station reaches and has access to internet connection. Initially, the SOA program was aired only at DWFB Radyo Pilipinas, Laoag. But with the need to cater other LGUs in Ilocos Norte that the station signal could not reach, the program partnered with additional two radio stations for wider coverage.

As to the number of times that the enrollees were enrolled in the SOA, majority (1,022) answered that this is the first time that they enrolled in the SOA, 147 answered twice, 132 answered once and 48 were enrolled thrice. The increase in enrollment, according to the enrollees is a manifestation that the airings really provided the community members with relevant information that they need. Yearly, the SOA provides information on various commodities. This is why, the type of enrollees keep on changing.

5. Number of MOA Signed

The SOA program sustained the its partnership t various stakeholders. A total of 18 MOA were signed with LGUS, PGIN and three radio stations. Stipulated in the MOA are the responsibilities of each of the participating LGUs and other partners.

6. Conduct of Quizzes and Top Achievers Examination

To determine the level of knowledge of the enrollees before the SOA, a pre-test examination was conducted. This was aired by the program host. This covered all the topics discussed in the SOA. Three SOA exams/quizzes were also administered on air to assess the extent of lessons learned on the topics discussed. Posttest evaluation was conducted after the SOA. Answer sheets were collected by the Agricultural Technicians (ATs) and SOA coordinators. In addition, a google form for the quizzes were also prepared to facilitate the collection of quizzes. The collected test papers were submitted to MMSU. MMSU later corrected and recorded their scores. This served as one of the bases to determine the

outstanding enrolees and at the same time, identify drop-outs. One of the challenges the program has, was the collection of quizzes. This is one of the activities that the program continues to address.

In addition to the regular monitoring activities conducted, a post activity assessment and review was undertaken to thresh-out problems and issues incurred during the implementation of the project.

Top achievers from the different municipalities were selected based on their active participation and scores from the quizzes provided.

Identified top achiever for each municipality underwent the final examination round to determine their ranks. As a result, the ranks of the Top Achievers were fetetermined based on their scores.

LGU/CGU	SOA Coordinator	Top Achiever	Score	Rank
1. Dingras	Ms. Michelle Ann Agmata	Aiza Lagran	54	1
2. Currimao	Ms. Bernadette R. Cacactin	Janet Gracela	52	2
3. OPAG	Lorna Lubera	Patricia Medrano	51	3
4. Badoc	Ms. Clarence Luna	Anthony Yadao	45	4
5. Laoag City	Ms. Madelyn Baloalloa	Edwin Rivera	44	5
6. San Nicolas	Ms. Cecille Sambrano	Cherry Ann D. Nicolas	41	6
7. Marcos	Ms. Gladies Villanueva	Daniel Reototar	40	7
8. Bacarra	Ms. Trixia Y. Dadiz	Norma S. Valite	40	
9. City of Batac	Mr. Ricardo I. Sibucan Jr.	Yasser Berona	40	
10. Vintar	Ms. Maricel R. Serrano	Maria Cielo Grace Sao	39	8
11. Piddig	Ms. Donalyn N. Domingo	Rodel Dilla	38	9
12. Burgos	Ms. Karen Joy C. Racuya	Aileen Juan Pascua	35	10
13. Solsona	Ms. Liza E. Domingo	Marilou Cabel	35	
14. Pasuquin	Ms. Glenda A. Lagpagan	Unesco Udal	33	11
15. Sarat	Ms. Annette Calvelo	Remigio Edrada	32	12
16. Nueva Era	Elaine Rabang	Rusella Bautista	32	
17. Banna	Ms. Kathryn T. Caindec-Fulgencio	Andrew Dominic Pasion	30	13
18. Paoay	Ms. Aurora Cacayorin	Rea Faye Saclayan Langaman	27	14

7. Visibility of Programs via Facebook Livestreaming

Initial data showed that from June to November, the SOA program recorded an accumulated views of almost a million (941,000), 8,110 comments, 4,693 hearts and likes, and 1,326 shares.

In addition, the SOA graduation in April 30, 2024 recorded a significant number of views with a total of 84 thousand views, 79 comments, and 496 hearts and likes compared to the SOA graduation on February 18, 2022. It recorded 8,300 views, 85 comments and 426 hearts and likes. A huge difference between the two consecutive SOA graduation excercises conducted by the Directorate.

These data shows the significant contribution of social media in information and technology dissemination and utilization.

8. Support assistance to SOA Enrollees

The SOA opened opportunities for SOA enrollees to access more projects from MMSU. Signifying their interest to become part of other programs and projects provided by MMSU announced in the SOA, some enrollees were able to become beneficiaries of various training activities, field days, dispersal projects, and others.

9. Development and production of IEC materials

Information and technologies aired in the SOA were consolidated. These were transcribed, developed and mass produced for distribution to the SOA graduates. This is also in response to their request for a copy of the materials discussed in the SOA. One thousand copies each of these materials were reproduced. IEC materials were distributed during the SOA graduation and during trade fairs.

The following were the IEC materials produced.

1. Agplanoka Para iti Naballigi a Panagtalon
2. Irekrekormo Met Laeng Dagiti Ar-aramidem iti Talon?
3. Pakanen Dagiti Taraken iti Concentrates
4. Madre de Agua: Nasustansia a Pagpakan Kadagiti Dingo
5. Napateg ti Garami
6. Agmula iti Nateng iti Sanna a Panwen
7. Saludsud ken Sungbat iti Panagtaraken iti Kalding
8. Bulong ti Talinum a kas Pagpakan iti Baboy
9. Hay Ruot
10. Bulong ti Kayanga, Kdp. A Kas Pagpakan iti Kalding
11. Agubo Kadi ti Apon ti Tarakenmo?

Likewise, modules on feeding management and entrepreneurship were also produced and made available for the enrollees. Sixty broadcast materials were also produced and are used from time to time to refresh the community members on goat and swine raising. Such materials are also shared to LGUs for their reference.

10. Press Releases

Articles on the implementation of the SOA were published in the MMSU Newsletter, Chronicle including the *Extensionist*, a quarterly publication of the Extension Directorate. Likewise, photo releases including the IEC materials produced were published in *Bannawag* and other circulations.

11. Monitoring and Post Assessment

- **KaSOA Group**

To facilitate coordination and monitoring of SOA activities, an FB group account named as KaSOA 2024 was created and sustained by the Extension Directorate. SOA Coordinators including enrollees who have internet access were invited as members.

In addition to the FB Page and FB Account maintained by the MMSU-Extension where the SOA announcements, airings, press releases and other SOA activities are posted, the same information were also shared in the KaSOA Group 2024.

- **SMS Messaging**

Enrollees were asked to actively participate in the SOA. This is also a strategy to determine whether or not the enrollees are listening. At the start of the SOA, the program host airs the CP and landline numbers where the enrollees could ask their questions and share their ideas on the topic discussed. SMS messaging serves a venue where the SOA presents themselves for attendance monitoring. This also serves as venue where they can send their answers to questions for the day provided.

• **Question for the Day/Giving Rewards to Winners**

Questions are also aired for the enrollees to answer. Enrollees who texted or answered the correct answer were consolidated. Winners are selected by drawlots in cases where one or more enrollees got the correct answer.

Prices in the form of planting materials like fruit tree seedlings, bamboo propagules, vegetable seeds, t shirts and e-load were awarded to the winners.

12. Graduation Exercises

A total of 1,300 successfully graduated the SOA. A hybridized graduation exercises was conducted due to limited budget. Six hundred composed of partners and graduates attended the SOA graduation on April 30, 2024. Top Achievers, outstanding graduates, and partners were recognized and awarded during the graduation ceremony. As stated mention, a significant number of views totalling to 84 thousand was recorded after the SOA graduation.

No.	LGU/CGU	SOA Coordinator	Number of Enrollees		
			AO May 22	Participated/ Completed	Attended the SOA Graduation F2F
1.	Nueva Era, Ilocos Norte	Ms. Lovely Joy C. Dalag	116	49	20
2.	Banna, Ilocos Norte	Ms. Kathryn T. Caindec-Fulgencio	38	30	15
3.	Solsona, Ilocos Norte	Ms. Liza Domingo Ms. Marnelie Colobong	93	85	30
4.	Marcos, Ilocos Norte	Ms. Gladies Villanueva	58	55	40
5.	Dingras, Ilocos Norte	Ms. Michelle Ann Agmata	123	60	30
6.	Piddig, Ilocos Norte	Ms. Donalyn N. Domingo	52	46	18
7.	Sarrat, Ilocos Norte	Ms. Annette Calvelo	135	132	30
8.	Laoag City	Madelyn Baloalloa	195	189	60
9.	Vintar, Ilocos Norte	Ms. Maricel Serrano	72	72	50
10.	Bacarra, Ilocos Norte	Ms. Trixia Y. Dadiz	71	70	14
11.	Pasuquin, Ilocos Norte	Ms. Glenda A. Lagpacan	78	50	35
12.	Burgos, Ilocos Norte	Ms. Karen Joy C. Racuya	72	35	10
13.	OPAG, Ilocos Norte	Ms. Lorna Lubera	31	20	10
14.	San Nicolas, Ilocos Norte	Mr. Leovigildo Bungobong Cecilia Sambrano	65	62	33
15.	City of Batac, Ilocos Norte	Ms. Rachel R. Aguilar Mr. Ricardo I. Sibucan Jr.	105	80	51
16.	Paoay, Ilocos Norte	Ms. Aurora Cacayorin	150	130	45
17.	Currimao, Ilocos Norte	Ms. Bernadette R. Cacactin	52	40	15
18.	Badoc, Ilocos Norte	Ms. Clarence Luna	59	55	32
19.	MMSU Students	CAFSD	28	25	23
20.	INAC		30	15	9
TOTAL			1,623	1,300	

More than 300 were considered drop-outs due to the following:

- Some went to abroad and outside Ilocos Norte
- Some were heavily affected by the strong typhoon
- Do not have enough time for the program
- Loaded with other activities

Top 5 LGUs with most active enrollees were also awarded during the activity. They are the following:

1. Marcos
2. Paoay
3. Solsona
4. Vintar
5. City of Batac

13. SOA Evaluation result


Based from the evaluations conducted every after SOA airing and the overall airing, responses showed that majority of the enrollees rated the SOA as excellent in terms of the following parameters:

1. Duration and time of airing
2. Topics aired
3. Comprehensibility of the topics aired
4. Time provided in every airing
5. How the SOA is aired
6. Selection of Speaker or lecturer
7. Program Host/Broadcaster

Annexes

1. **Approved Proposal**
2. **List of Topics Aired**
3. **Quizzes (Pre and Post Test, Quizzes 1-3, Top Achievers Examination**
4. **Photodocumentation**
5. **Press Releases**
6. **Testimonies/Feedback**

Approved Proposal



MARIANO MARCOS STATE UNIVERSITY

Extension Directorate

DR. SHIRLEY C. AGRUPIS
President
This University

February 13, 2023

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DATE: FEB 14 2023
BY: [Signature]
OFFICE OF THE PRESIDENT

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BY: [Signature]
OFFICE OF THE PRESIDENT

Thru: DR. NATHANIEL R. ALIBUYOG
VP for Research and Extension

ENGR. AMI RUTH R. COCSON
VP for Planning and Development & GFPS Executive Director

DR. OSCAR M. AGPAOA
VP for Administration, Finance, & Business

MS. CHRISTINE MAE B. PIZA
Director, FMS

Madam:

May we submit for your kind approval the attached proposal on the implementation of another University-initiated **School-on-the-Air (SOA) Program/Eskwela iti Tangatang**. This time, the SOA will be covering Goat and Swine Production, one of the priority areas of the Provincial Government of Ilocos Norte under the Ilocos Norte Agriculture and Fisheries Extension System (INAFES). Such need was also included in the consolidated additional information and technology needs of the community members during the evaluation of our SOA as part of our implementation strategy.

With all the issues and concerns the community members have experienced during the past year on African Swine Fever (ASF) including the need to improve the feeding strategies for improve production, the SOA will be implemented.

In addition, a closer link between the LGUs, PGIN, and other implementing agencies will be followed to ensure that the information and technologies disseminated will be adopted by the community members. To date, we have documented a lot of technology adopters from our SOA **Tarabay iti Pagtaengan, Pagbiagan, Salun-at (TIPPS) ken Dadduma Pay**.

Through your support on the implementation of extension programs and projects, we are looking forward to more fortified community members. Thank you very much.

Very respectfully yours,

SHIRLEY C. AGRUPIS
UNIVERSITY PRESIDENT

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Funds Available: 101 - 9305 m
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IMELDA C. CORPUZ
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QS STARS
RATING SYSTEM

SOCOTEC
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List of topics aired

Episode No.	Topic	Topic Content	Resource Person/Agency	Contact Number	Number of Airing	Broadcast Date		
						DWFB	DWCI	DWNI
1	Initial Broadcast	What to expect from the SOA/objectives, format, duration, topics to be aired, contact person, no. of quizzes, requirements for graduation, complementary learning resources, Sequence of airing (introduction/review of the previous lesson, answers to questions, feedback, interviews, announcements, summary, teaser for next season.	Program Host		1	June 7	June 13	June 14
2	Pre-testing	Items to determine the level of knowledge of the enrollees	Program Host		1	June 9	June 15	June 16
3-4	Feeding Management	Feed Resource and Feeding Techniques for goats	Sean R. Vidad/MMSU-CAFSD	09163957692	2	June 14 June 16	June 20 June 22	June 21 June 23
5-6		Unconventional feed resource for feeds and feed processing for swine			2	June 21 June 23	June 27 June 29	June 28 June 30
7-8		Answers to questions			2	June 28 June 30	July 4 July 6	July 5 July 7
9	Farm Planning and Budgeting	Importance of Planning and Budgeting	Sheila Marie Joy Lidora		1	July 5	July 11	July 12
10	Record Keeping	Record Keeping			1	July 7	July 13	July 14

Episode No.	Topic	Topic Content	Resource Person/Agency	Contact Number	Number of Airing	Broadcast Date		
						DWFB	DWCI	DWNI
11-12		Answers to questions Testimony related to Planning, Budgeting and Record Keeping	Program Host		2	July 12 July 14	July 18 July 20	July 19 July 21
13-14	Disease/Health Management	Animal Disease Detection for Goat and Swine, Signs and Symptoms, Control, and Prevention	Melvin Bagot/College of Vet Medicine	09203873942	2	July 19 July 21	July 25 July 27	July 26 July 28
15-16	Disease/Health Management	Animal Disease Detection for Goat and Swine, Signs and Symptoms, Control, and Prevention	Program Host		2	August 23	August 24	August 25
17	QUIZ 1		Program Host		1	August 25	August 29	August 30
18-19	Disease/Health Management	Animal Disease Detection for Goat and Swine, Signs and Symptoms, Control, and Prevention	Dr. Melvin Bagot		2	August 30 September 6	August 31 September 7	September 1 September 8
20-21	Breeding/Reproduction	Selection and breeding techniques in goat and swine	Hazel H. Achuela/MMSU-CAFSD	0946470803	2	September 8 September 13	September 12 September 14	September 13 September 15
22-25		Selection and breeding techniques in goat and swine	Program Host		2	September 15 September 20 September 22 September 27	September 19 September 21 September 26 September 28	September 20 September 22 September 27 September 29
26-28		Answers to questions	Program Host			September 29 October 4 October 6	October 3 October 5 October 10	October 4 October 6 October 11
29		Rabbies	Ms. Liza Domingo Solsona			October 11	October 12	October 13
30	Renewable Energy	Solar PV Systems for Household Generations	Engr. Jeremiah Corpuz			October 13	October 17	October 18

Episode No.	Topic	Topic Content	Resource Person/Agency	Contact Number	Number of Airing	Broadcast Date		
						DWFB	DWCI	DWNI
31	Housing	Housing Management for goat	Duane Mark Raragon	09089581739	1	October 18	October 19	October 20
32		Napasayaat a Panangtaraon kadagiti Kalding				October 20	October	
33	Quiz 2	Lessons learned from the previous topics	Program Host		1	October 25	October 26	October 27
34		Occupational Safety and Health in Goat and Swine Production	Mr. Leiron Kaizer A. Ganai		1	November 8	November 9	November 10
35		Grit and Resilience: A Guide to Facing Life's Challenges and Adversities in Livestock Production	Prof. Nova Mateo Cabias		1	November 10	November 14	November 15
36		Anxiety and Depression: Coping Strategies			1	Nov. 15	Nov. 16	Nov. 17
37		Handling Customers' Needs and Complaints			1	Nov. 17	Nov. 21	Nov. 22
38		Self-Care Routine			1	Nov. 22	Nov. 23	Nov. 24
39		Saludsod ken Sungbat, Housing and Silage	Mr. Duayne Raragon		1	Nov. 24	Nov. 28	Nov. 29
40		Panangmanehar KAdagiti Pangganakan a Baboy	Ms. Joan Rarogal		1	Nov. 29	Nov. 30	Dec. 1
41		Panangmanehar Kadagiti Pangganakan a Baboy			1	Dec. 1	Dec. 5	December 6
43		Meat and Meat Products: Market Needs and Opportunities	Prof. Fairie Ann Domingo		1	Dec. 8	Dec. 12	Dec. 13
44		Meat Processing Part 1: A Guide on Meat Selection and Handling			1	Dec. 13	Dec. 14	Dec. 15
45		Meat Processing Part 2: Methods of Preservation			1	Dec. 15	Dec. 19	Dec. 20
46		Climate Change: Panagbalbaliw ti Panawen: Ammuentayo no kasano a maapektaran dagiti tarakentayo	Engr. Juanito Maloom		1	Dec. 20	Dec. 21	Dec. 22
47		Meat Processing Part 4: Comminuted Meat Products (Skinless longganisa, longganisa with casing, nuggets)	Prof. Fairie Ann Domingo		1	Dec. 22	Dec. 26	Dec. 27
48		Meat Processing Part 4 (Pork/Chicken Ham, Bacon)			1	Dec. 27	Dec. 28	Dec. 29

Episode No.	Topic	Topic Content	Resource Person/Agency	Contact Number	Number of Airing	Broadcast Date		
						DWFB	DWCI	DWNI
49		Meat Processing Part 5: Cured Meat Products (Pork/Chicken Tocino, Corned beef)			1	Dec. 29	January 2	January 3
50								
51		Capital Management	Basic Bookkeeping and Financial Management		1	January 19	January 23	January 24
52			Agricultural Marketing		1	January 24	January 25	January 26
53					1	February 2	February 6	February 7
54		Waste Management	Waste Management Strategies in Swine Production		1	February 5	February 13	February 14
55-56					1	February 14	February 15	February 16
57			Estimating Live Body Weight of Ruminants		1	February 21	February 22	February 23
58	Quiz 3	Lessons learned from the previous topics	Program Host		1	February 23	February 27	February 28
59	Pos-test SOA	Pos-test	Program Host		1	February 28	February 23	March 1
60	Evaluation	SOA Evaluation	Program Host		1	March 1	March 5	March 6
		Top Achiever's Examination				March 15		
		SOA Graduation				April 30		

Pre-test, quizzes, and top achiever's exam

Pretest and Post Test

Para iti Kalding

Direksion. Pilien ti husto a sungbat kadagiti sumaganad a saludsod. Isurat/Kur-itan ti letra a mapili.

1. Klase ti taraon dagiti kalding a nangato iti digestible nutrients-na ken addaan daytoy iti nababa a fiber. Masansan dagitoy nga agricultural wenno industrial by-products ken kadawyan a maipakan kadagiti taraken tapno mapangato ti ganansia.
 - a. *Roughages*
 - b. *Forages*
 - c. **Concentrates**
 - d. *Mineral supplements*
2. Sadinno kadagitoy ti saan nga usto kadagiti sistema ti pannangan dagiti kalding?
 - a. Kayatda ti mangan iti nadumaduma ti klasena a forages argaman dagiti bulbulong ken shrubs.
 - b. Kabaelanda a pilien ti umiso, kangrunaan, ken kasustansiaan a mula argaman dagiti parte dagitoy, aramat ti bassit a bibigda.
 - c. Maitakderda dagiti dua nga akinlikod a sakada tapno magaw-atda dagiti parte ti mula a kayatda a kanen.
 - d. **Saanda a madeterminar ti napait, nasam-it, naapgad, ken naalsem a raman.**
3. Ania kadagiti sumaganad dagiti maibilang a *causative agents* a mangitunda iti sakit a *keratoconjunctivitis*?
 - a. ***Moraxella ovis***
 - b. *Brucella abortus*
 - c. *Pasteurella multocida*
 - d. Paramyxovirus
 - e. Awan kadagiti nadakamat
4. *Moniezia expansa* ket maysa a klase ti tapeworm ti animal kas iti ____?
 - a. **Ruminants**
 - b. Baboy
 - c. Manok
 - d. Aso
 - e. Awan kadagiti nadakamat
5. Dagiti sumaganad ket senyales ti coccidiosis kadagiti kalding, malaksid iti
 - a. **Pumuraw a rugit dagiti kalding, adda wenno awan iti mucus wenno darana**
 - b. Constipation
 - c. Awan ganas a mangan ken gurigoren
 - d. Pannakadehydrate gapu iti panagibleng
 - e. Panagkakapsot
6. Mano iti kapintasan a rukod wenno kangato ti aramiden a balay ti kalding, manipud iti daga agingga iti flooring?
 - a. 0.5 metro
 - b. 1.0 metro
 - c. **1.5 metro**
 - d. 2.0 metro
7. Ania dagiti kasapulan a materiales wenno ramit tapno maipaay kadagiti kaiyanak a kalding ti makaumanay a pudot ti bagida kalpasan a naiyanak dagitoy.
 - a. **Brooder**

- b. Bucket
- c. Used sacks
- d. Used newspaper

Para iti Baboy

1. Ania kadagiti sumaganad ti example ti non-conventional feedstuff para kadagiti baboy.
 - a. Tuyo
 - b. Mais
 - c. Wild root crops kas iti Ube ti bantay, buga ken dadduma pay**
 - d. Cassava meal
2. Taraon (processed feedstuff) para kadagiti baboy a maaramid wenno aggapo manipud kadagiti nagango ken nadekdek a bulbulong.
 - a. Leaf powder
 - b. Leaf meal**
 - c. Leaf mold
 - d. Leaf feed
3. Ania ti kadawyan a mairekomenda a breeding age dagiti pangganakan a baboy (boars and gilts?)
 - a. 6 months old
 - b. 8 months old**
 - c. 1 year old
 - d. 2 years old
4. Napadakayan ti pangganakan a baboy iti March 16, 2023. No saan a nagbalin daytoy, manamnama nga agarem to manen daytoy intono _____.
 - a. March 21, 2023
 - b. April 7, 2023**
 - c. May 7, 2023
 - d. May 21, 2023
5. No ti pangganakan ni Manong Juan ket napadakayan idi June 6, 2023, kaano ti manamnama a panaganak daytoy?
 - a. August 27, 2023
 - b. September 14, 2023
 - c. September 28, 2023**
 - d. October 2, 2023
6. Lapdan kadi ti panagpasuso ti baboy ti panagaremna?
 - a. True**
 - b. False
7. Nadanum ken napusiaw a rugit ti baboy ket masansan a makita iti _____.
 - a. Colibacillosis**
 - b. Coccidiosis
 - c. Salmonellosis
 - d. Swine dysentery
8. Dagiti sumaganad ket husto pakaseknan iti Transmissible Gastro-Enteritis (TGE), malaksid iti _____.
 - a. Maprebentaran babaen ti pannakabakuna**
 - b. Alisto a makaakar
 - c. Awan bakunana
 - d. Awan agasna
 - e. Awan kadagiti nadakamat
9. *Streptococcus suis* ket klase ti zoonotic disease a maala manipud kadagiti

- A. Baboy**
- B. Baka
- C. Aso
- D. Pusa
- E. Kalding

Quiz 1

August 25, DWFB

August 29 & 30, DWCI and DWNl

A. Multiple Choice. Isurat/i-click ti letra ti usto a sungbat kadagiti sumaganad a saludsod.

1. Maysa ti *Leptospirosis* kadagiti *most common infectious microorganisms* a mangitunda iti *abortion* kadagiti taraken a kalking
 - a. **Wen**
 - b. Saan
2. *Coccidiocis* ti awag iti kalking ma-dehydrate gapu iti *diarrhea*
 - a. **Wen**
 - b. Saan
3. Kangrunaan a maapektaran iti Swine Dystentery dagiti baboy a _____
 - a. 2-3 weeks
 - b. 3-6 weeks
 - c. **8-14 weeks**
 - d. 10-15 weeks
4. Ti sakit a *Leptospiriosis* ket maigapu iti _____
 - a. **Bacteria**
 - b. Virus
 - c. Protozoa
5. Ti sakit nga ASF ket maigapu iti _____
 - a. Bacteria
 - b. **Virus**
 - c. Protozoa
6. Ti _____ ket makatulong ken mangted daytoy iti idea no mano ti mapastrek iti panagtalon ken panagtaraken iti dinguen
 - a. **Farm Planning**
 - b. Farm Budgeting
 - c. Farm Record Keeping
7. Ti kayat a sawen ti M iti SMART kas maysa a component ti Farm Planning ket
 - a. Mighty
 - b. **Measurable**
 - c. Meaningful
8. Sensitibo dagiti kalking kadagiti ipauneg dagitoy. Malasinda ti nasam-it, naalsem, wenno naasin. Kabaelan dagitoy ti mangirwar kadagiti taraon a saan a maiyannatop kadakuada.
 - a. **Wen**
 - b. Saan
9. Kabilang dagiti *grasses, shrubs, ken tree leaves* kadagiti Forages a taraon dagiti kalking.
 - a. **Wen**
 - b. Saan
10. Kabilang ditoy dagiti commercial feed formulations wenno agro-industrial by-products ken addaan dagitoy iti maiyannatop a sustansia a kasapulan dagiti taraken.
 - a. Forage
 - b. Mineral Supplement

c. **Concentrates**

11. Dagitoy dagitay pagpakan kadagiti taraken a mabalin nga agtubo wenno maimula.
 - a. **Forages**
 - b. Grasses
 - c. Shrubs
12. Dagitoy dagitay pagpakan ken alisto a paggapuan ti protina ken dregradable organic matters a kasapulan dagiti taraken iti panagdakkelda.
 - a. Forages
 - b. Concentrates
 - c. **Alternative Feeds**
13. Ania kadagitoy ti karaman kadagiti mabalin nga alternatibo a pagpakan kadagiti taraken a baboy
 - a. Madre de agua wenno *Trichantera gigantea*
 - b. Taro wenno *Colocasia esculenta*
 - c. Talinum
 - d. Mulberry
 - e. **Amin dagiti nadakamat**
14. Dagiti nadumaduma a sistema tapno mapaimas dagiti pagpakan kadagiti taraken a baboy
 - a. Cooking
 - b. Drying
 - c. Fermentation/Ensiling
 - d. **Amin dagiti nadakamat**
15. Daytoy ti kangrunaan ken kalaakka a kasapulan dagiti taraken a baboy, ngem no dadduma ket saan unay maikkan importansia
 - a. Feeds
 - b. **Danum**
 - c. Vitamins

B. Ti makunayo?

1. Kadagupan kadagiti immuna a topiko a naidanon iti programa, mangted iti dua a manamnama nga adaptarenyo ken mabalin a nangnangruna a makatulong kadakayo.
 - Feeding Goats: From Science to Practice
 - Alternatibo a Pagpakan kadagiti Baboy
 - Farm Planning, Budgeting, and Recordkeeping
 - Crops and Livestock Insurance
 - Goat Diseases
 - Swine Diseases
2. Rason no apay a dagitoy a topiko ti napiliyo? _____
3. Kas maysa kadagiti SOA enrollees, ania iti makunayo iti SOA kas maysa a sistema ti panagadal? Ania dagiti benepisio a maipaayna kadakayo?

Agyamankami unay!

<https://forms.gle/NkKhSyrFCvKJpaFA6>

Quiz 2

October 25, DWFB

October 26, DWCI & October 27, DWNI

B. Multiple Choice. Isurat/I-click ti letra ti usto a sungbat kadagiti sumaganad a saludsod.

1. Ruguian a tingitingen/amirisen dagiti taraken nga adda potentialna wenno mabalin a pangganakan no addan ____ a bulan dagitoy.
 - a. 1-2 months old
 - b. 2-3 months old
 - c. 3-4 months old
2. Maisayangkat ti pinal a pannakapili dagiti pangganakan no addan ____ a bulan dagiti taraken.
 - a. 4-5 months old
 - b. 5-6 months old
 - c. 7-8 months old
3. Pilien dagiti pangganakan nga addaan iti mapagtalkan ken napintas ti production ____-na.
 - a. Records
 - b. List
 - c. Volume
4. Kapintasan ti bula nga aramaten a pangganakan ket agdagsen iti ____ kg.
 - a. 90 kg
 - b. 100 kg
 - c. 110 kg
5. Iti panagpili iti bumalasang a mabalin a pangganakan (gilt), mairekomenda ti addaan iti ____ a paris a prominent and well-spaced, functional teats-na
 - a. 5 pairs
 - b. 6 pairs
 - c. 7 pairs
6. Saan a mairekomenda a pangganakan ti gilt no namin-____ a napadakayan ngem saan a nagsikog
 - a. 2
 - b. 3
 - c. 4
7. Maysa kadagiti rason ti _____ failure ket no saan a nafertilized ti egg cell/saan a nagbalin ti embryo, 1-12 nga aldaw kalpasan a napadakayan daytoy.
 - a. Conception
 - b. Inception
 - c. Mummification
8. _____ ti awag iti naburro a feed materials kas iti grasses, legumes, crop residues, garami, kayo ti mais ken dadduma pay.
 - a. Forages
 - b. Silage
 - c. Tree Leaves
9. _____ ti kolor ti naburro no napintas ti pannakaisagana/pannakaburrona.
 - a. Greenish brown

- b. Lumabbaga
- c. Umamarillio

10. Maibalakad a _____ metro ti kangato wenno elevation ti maaramid a flooring tapno makapag circulate a nasayaat ti angin ken bentilasion ti lugar kasta met a nalaklaka ti pannakadalus ti apon dagiti kalding.
- a. 1-1.5 m
 - b. 1.5-2 m
 - c. 2-3 m

True/False. Isurat ti True no daytoy ket husto, False, no saan

- 1. Kasapulan a kanayon a sibubussog ti pangganakan a baboy no daytoy ket masikog aglalo iti 1st trimester daytoy **(False)**.
- 2. Infection ti maysa a rason a pakaalaan ti Mummification **(True)**.
- 3. Pannakasaluad dagiti dinguen kontra iti tudo, napigsa nga angin ken nakaro a pudot, ken dadduma pay a makadangran kadagitoy ti kangrunaan a rason no apay a maiyaramidan dagiti dinguen iti balay/aponda **(True)**.
- 4. Mapreserba ken maaramat dagiti sustansia a kasapulan dagiti taraken babaen no maburro dagiti pagpakan kadagiti taraken **(True)**.

Identification: Tsekan/Jur-itan ti naipaay nga espasio/Yes or No for listeners via radio

- 1. Kur-itan dagiti benepisio a maipaay ti panagaramat iti Solar PV System
 - ☐ Renewable and sustainable
 - ☐ Environment friendly
 - ☐ Reduces electricity bills
 - ☐ Energy Independence and security
 - ☐ Energy Access
- 2. Causes of Mummification
 - ☐ Infection
 - ☐ Poor nutrition
 - ☐ Uterine Crowding
 - ☐ Genetic factors
 - ☐ Stress
 - ☐ Parity
 - ☐ Hormonal Imbalance
- 3. Pagilasinan a ti tao ket naapektaran iti rabies
 - ☐ Panagsakit ti ulo
 - ☐ Kabutengna ti angin
 - ☐ Kabutengna ti danum
 - ☐ Kabutengna ti lawag

Agyamankami unay!

Quiz 3
February 23, DWFB
February 27, DWCI & February 29, DWN

A. Multiple Choice. Isurat/I-click ti letra ti usto a sungbat kadagiti sumaganad a saludsod (10 points).

1. Maysa kadagiti mabalin a sagabaen dagiti taraken no napudot ti tiempo ket ti _____.
a. **Heat stress**
b. Panaguyek
c. Awan kadagiti nadakamat
2. Dagiti aktibidad dagiti _____ ti kangrunaan a makaigapo ti climate change
a. Animal
b. **Tattoo**
c. Isu a dua
3. Kangrunaan a kasapulan iti panangala iti kadagsen ti dinguen kas iti kalding wenno baka ket ti _____.
a. **Tape Measure**
b. Pagkiluan
c. Palanggana
4. Amin dagiti sumaganad ket dagiti mabalin nga aramiden tapno maleplepan ti epekto ti nakaro a pudot kadagiti tarakentayo, malaksid iti maysa.
a. Agtaraken kadagiti napintas ti breedna. Pilien dagitay naandur iti pudot
b. **Adda latta nakapondo a danum iti lugar nga ayanda**
c. Agmula kadagiti pagpakan a naandur iti tikag
d. Suroten ti rotational grazing kadagiti taraken.
e. Agaramat kadagiti sistema a pannakamanehar kadagiti rugit dagiti dinguen
5. Dagiti sumaganad dagiti rason no apay nga ipreserbatayo ti karne, malaksid iti maysa
a. Mapagtalinaed ti kinatalged ken kinapintas ti kalidad ti karne
b. Pabayagenna ti pannakapedi daytoy
c. Paatiddogenna ti shelf-lifena
d. **Gusgusto dagiti gumatang**
6. Maysa kadagiti kangrunaan a wagas a mabalin nga aramiden tapno maimanehar dagiti waste dagiti taraken ket babaen iti _____. (Waste Management Hierarchy)
a. **Source Reduction and Reuse**
b. Recycling/Composting
c. Energy Recovery
d. Treatment and Disposal
7. Amin dagiti sumaganad ket dagiti mabalin a mapasaran dagiti agtartaraken iti dinguen, malaksid iti maysa
a. Drought/Tikag
b. **Adu ti paglakuan**
c. Awan ti paglakuan kadagiti produkto/taraken
d. Nangina dagiti magatang a maaaramat iti panagtaraken
e. Panagsakit dagiti dinguen

8. _____ ti awag iti sistema ti panagpreserba iti karne babaen iti pannakaipamaga/payangyang (drying) tapno maikkat ti moisture content na.
 - a. **Drying/Dehydration**
 - b. Chilling/Freezing
 - c. Smoking

9. Karaman dagiti sumaganad iti Marketing Mix wenno 4Ps, malaksid iti maysa
 - a. Product
 - b. Price
 - c. Place
 - d. **Policy**
 - e. Promotion

10. _____ ti awag iti sistema ti marketing mix wenno 4Ps tapno maiwaragawag iti publiko/kaaduan
 - a. Product
 - b. Price
 - c. Place
 - d. Policy
 - e. **Promotion**

10. True/False. Isurat ti True no daytoy ket husto, False, no saan (10 points)

1. Maysa kadagiti ikonsidera iti panagpili iti karne nga iproseso ket ti kolor daytoy **(True)**.
2. Meat is highly perishable because of its high moisture content **(True)**.
3. Meat is considered as potentially hazardous food **(True)**
4. Napintas a pagpakan ti Madre de Agua ta nabaknang daytoy iti carbohydrates **(False)**
5. Kustomer ti awag iti mangimanmanehar iti negosio **(False)**
6. Napintas a manager ti awag iti siasinnoman a saan a pulos a dumngeg kadagiti suhestion wenno reklamo dagiti kustomerna **(False)**.
7. Agresibo a customer (Aggressive Customer) ti awag iti naringgor ken ti kayatna maasikaso a dagus no adda ibagana. Kadawyan nga awan ti denggenna a palawag ken saan a mapnek iti serbisio **(True)**.
8. No makapungpungtot ti customer, danggayan daytoy. Sungbatan amin nga ibagana **(False)**.
9. No saan a mamanehar a nasayaat dagiti rugit dagiti taraken, mabalin a mangitunda daytoy iti saan a nasayaat a salun-at dagitoy **(True)**
10. Farming is a business **(True)**

11. Kas maysa nga enrollee ti SOA, ania ti makunayo iti eksperiensiyayo ti panagadaltayo iti radio/FB live

Agyamankami unay!

TOP ACHIEVERS' EXAMINATION
March 15, 2024, 9 a.m.

I. True of False. Isurat ti **T** no iti panagkunayo ket husto ti saludsod wenno sarita, **F** no saan nga husto. Isurat met ti husto a sungbat no daytoy ket **F** tapno agbalin nga husto daytoy (*plus additional one point*) - (20 points)

1. Farm Planning ti awag iti proseso a tingitingen no ania dagiti rumbeng nga aramiden iti ania man a ganuat ken no ania dagiti mabalin a kominasion	T	
2. Iti balikas nga SMART iti panagtalon, ti kayat a sawen ti M ket measurement	F	Measurable
3. Babaen iti panagplano, maamuan dagiti napipintas nga estratehia a naaramidmo nga isu met ti mabalinmo manen a surotan kadagtii sumaruno nga aktibidadmo	F	Panagrecord
4. Infection ti maysa a rason a pakaalaan ti Mummification	T	
5. Pannakasaluad dagiti dinguen kontra iti tudo, napigsa nga angin ken nakaro a pudot, ken dadduma pay a makadangran kadagitoy ti kangrunaan a rason no apay a maiyaramidan dagiti dinguen iti balay/aponda.	T	
6. Smoking ti awag iti sistema ti panagpreserba iti karne babaen iti pannakaipamaga/payangyang tapno maikkat ti <i>moisture content</i> na.	F	Drying/Dehydration
7. Promotion ti awag iti sistema ti marketing mix wenno 4Ps tapno maiwaragawag iti publiko/kaaduan	T	
8. Maysa ti <i>Leptospirosis</i> kadagiti <i>most common infectious microorganisms</i> a mangitunda iti <i>abortion</i> kadagiti taraken a kalding	T	
9. <i>Coccidiocis</i> ti awag iti kalding ma-dehydrate gapu iti <i>diarrhea</i>	T	
10. Kasapulan a kanayon a sibubussog ti pangganakan a baboy no daytoy ket masikog aglalo iti 1 st tri-mester daytoy	F	Saan, timbengen ti ipakan
11. Mapreserba ken maaramat dagiti sustansia a kasapulan dagiti taraken no maburro dagiti pagpakan kadagiti taraken	T	
12. Napintas a pagpakan ti Madre de Agua kadagiti taraken ta nabaknang daytoy iti carbohydrates	F	Protein
13. Farming is a business	T	
14. Maysa kadagiti ikonsidera iti panagpili iti karne nga iproseso ket ti kolor daytoy	T	
15. Rumination ti awag iti Panagnangingat ti Kalding	T	

II. Multiplie choice. Pilien ti umno a sungbat kadagiti nailanad a pagpilian. Timbukelan ti usto a sungbat. (10 points)

1. Ti _____ ti maysa kadagiti tulbek ti naballaigi a panagtalon wenno panagtaraken iti dingo. Maysa daytoy a wagas ti panangmonitor kadagiti aktibidad.
 - a. Panagplano
 - b. **Panagrekord**
 - c. Panagbudget
2. Ti sakit nga ASF ket maigapu iti _____
 - a. Bacteria
 - b. **Virus**
 - c. Protozoa
3. Kabilang dagiti *grasses, shrubs, ken tree leaves* kadagiti Forages a taraon dagiti kalding.
 - c. **Wen**
 - d. Saan
 - e. Diak ammo
16. Kabilang ditoy dagiti commercial feed formulations wenno agro-industrial by-products ken addaan dagitoy iti maiyannatop a sustansia a kasapulan dagiti taraken.
 - d. Forage
 - e. Mineral Supplement
 - f. **Concentrates**
17. Dagitoy dagitay pagpakan ken alisto a paggapuan ti protina ken dregradable organic matters a kasapulan dagiti taraken iti panagdakkelda.
 - d. Forages
 - e. Concentrates
 - f. **Alternative Feeds**
18. Pilien dagiti pangganakan nga addaan iti mapagtalkan ken napintas ti production ____-na.
 - d. **Records**
 - e. Capacity
 - f. Identity
19. _____ ti awag iti naburro a feed materials kas iti grasses, legumes, crop residues, garami, kayo ti mais ken dadduma pay.
 - d. Forages
 - e. **Silage**
 - f. Tree Leaves
20. Maysa kadagiti mabalin a sagabaen dagiti taraken no napudot ti tiempo ket ti _____
 - d. Panaguyek
 - e. **Heat stress**
 - f. Awan kadagiti nadakamat
21. Kangrunaan a kasapulan iti panangala iti kadagsen ti dinguen kas iti kalding wenno baka ket ti _____.
 - e. Pagkiluan
 - f. **Tape Measure**
 - g. Palanggana
22. Amin dagiti sumaganad ket dagiti mabalin nga aramiden tapno maleplepan ti epekto ti nakaro a pudot kadagiti tarakentayo, malaksid iti maysa.
 - f. Agtaraken kadagiti napintas ti breedna. Pilien dagitay naandur iti pudot
 - g. **Adda latta nakapondo a danum iti lugar nga ayanda**

- h. Agmula kadagiti pagpakan a naandur iti tikag
 - i. Suroten ti rotational grazing kadagiti taraken.
 - j. Agaramat kadagiti sistema a pannakamanehar kadagiti rugit dagiti dinguen
23. Karaman dagiti sumaganad iti Marketing Mix wenno 4Ps, malaksid iti maysa
- f. Product
 - g. Price
 - h. Place
 - i. **Policy**
 - j. Promotion
24. Dagiti aktibidad dagiti _____ ti kangrunaan a makaigapo ti climate change
- d. Animal
 - e. **Tattao**
 - f. Isu a dua
25. Dagitoy dagitay mula a maipakan kadagiti kalding a mabalin nga imula wenno agtubtubo kas iti grasses, shrubs, ken tree leaves.
- a. Alternative feeds
 - b. **Forages**
 - c. Crop residues
26. Dagitoy dagitay locally available mineral sources kas iti limestone, ground snail, ken oyster shells
- a. Non-protein nitrogen
 - b. **Mineral supplements**
 - c. Processed feeds
27. Dagitoy dagitay natay a fetus ngem *fully formed* wenno kompleto ti amin a partes ti bagida, nupay natay dagitoy iti uneg ti takong sumagmamano nga oras wenno minutos sakbayda a naiyanak. No dadduma, mabalin met a natay dagiti burias kabayatan ti pannakaiyanakda.
- a. Mummified fetus
 - b. Stillborn piglets

III. Enumeration/Identification(10 points)

A. Ania ti kayat a sawen ti balikas nga SMART no agplanotayo (6 points)

- 1. S _____ - Specific
- 2. M _____ - Measurable
- 3. A _____ - Attainable
- 4. R _____ - Relevant
- 5. T _____ - Time bound

B. Mangted iti tallo a sistema tapno mapaimas dagiti pagpakan kadagiti taraken a baboy (3 points)

- 1. Cooking
- 2. Drying
- 3. Fermentation/Ensiling

C. Mangted iti tallo a rason wenno pakaigapuan ti Mummification (3 points)

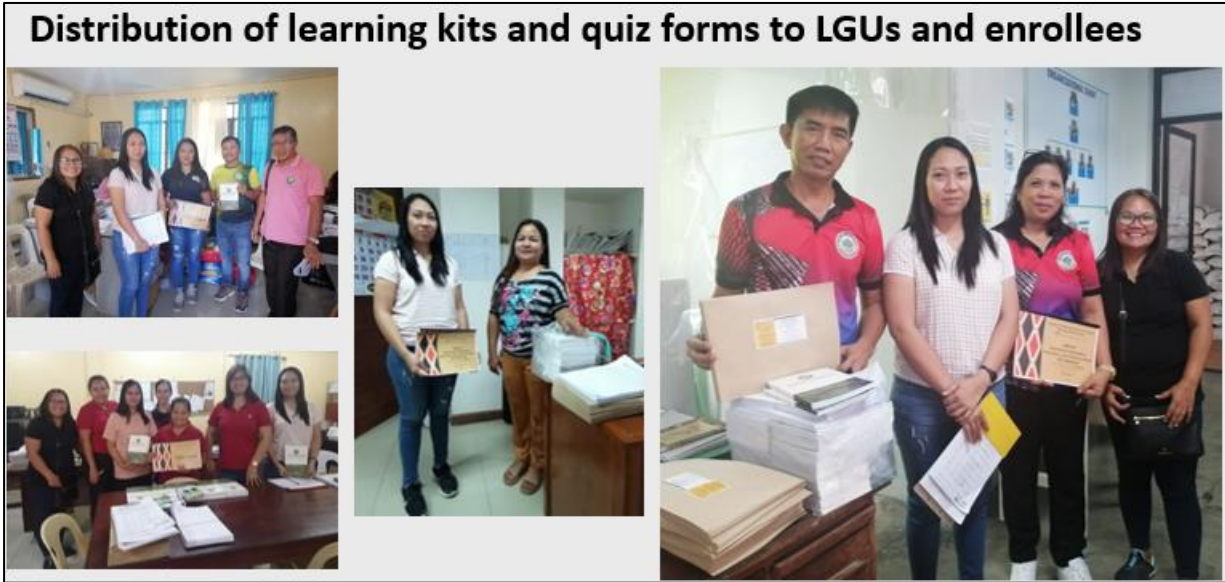
- 1. Infection ken Poor nutrition
- 2. Uterine Crowding ken Genetic factors
- 3. Stress ken Parity
- 4. Hormonal Imbalance

D. Mangted ti uppat (4) a Tips iti Record keeping (3 points)

1. Keep it simple
2. Record immediately
3. Organize your data
4. Record data accurately

E. Sipud naimplementar ti School-on-the-Air (SOA) Program, namin-ano kan a nag-enroll?
_____. Ania ti makunam iti programa kas maysa a sistema ti pannakaidanon dagiti
impormasion ken teknolohia. Kadagiti naidanon, adda kadin iti pinadas mo nga inyaplikar. No adda,
adda kadi naitulongna kenka?

Photodocumentation of SOA Activities





School-on-the-Air (SOA)/Eskuela iti Tangatang. Conducted the SOA Top Achievers Examination on March 15, 2024 at MMSU-UBRC. The activity was participated by 18 LGUs and 2 cities in Ilocos Norte. Representatives from the LGUs were selected by the SOA Coordinators.



School-on-the-Air (SOA)/Eskuela iti Tangatang. Conducted the SOA Graduation Exercises on April 30, 2024 at MMSU Teatro Ilocandia. A combination of face-to-face and online platform were used considering the capacity of the Teatro Ilocandia and the present climate situation. A total of 1,300 graduates received their Certificates of Completion during the activity. Top Achievers, Top Scorers, Enrollees with Complete Attendance were given Certificates of Recognition during the activity. Eighteen LGUs and 2 cities participated in the activity. Graduates were composed of farmers/livestock raisers, rural women and students actively participated in the activity.

The Provincial Government of Ilocos Norte including NGAs like DA, ATI, DOST, PCC, PhilRice provided support to the SOA program. These include assorted vegetable seeds, sprayer, and inoculant were provided to the graduates.

A total of 84 thousand viewers were recorded during the graduation exercises.



<https://www.facebook.com/share/v/2pV4KBcP8awCLYRu/>

Production and Distribution of Information, Education, and Communication (IEC) Materials. Twenty-five titles at 1,000 copies each were reproduced and distributed to SOA graduates during the graduation exercises. The IEC materials produced were the topics aired in the SOA. Materials were produced as an answer to the demand of enrollees/graduates for a complementary material to the learning activities in the SOA.



TULONG ITI MANNALON

Agplanoka Para iti Naballigi a Panagtalon

NI MERCY R. GAÑO



NI DR. SEAN R. VIDAL MANIPUD ITI MMSU-CAFSU, SIUDAD TI BATOC (naka-T-shirt iti amarillo) iti panagsisurona kadagiti miembro ti Soricao Upland Farmers Association iti Vintar, Ilocos Norte iti panagaramid iti silage. Kunana a “napateg nga emmuen dagiti materiales nga adda iti aglawlaw tapno umno dagiti isagana” no ogaramidka iti silage.

NO dadduma, gapu iti kaadu a trabaho, malipantatayo tay maysa kadagiti kapatgan a banag iti benneg ti panagtalon. Tay panagplano. No dimo insagana a nasayaat, agsaganaka met ti agbalin a di makaay-ayo a resultana.

Agsipud ta maibilang met a negosio ti panagtalon, planuem ngarud a nasayaat dagiti aramidem tapno dakdakel ti posibilidadadna nga adda nasayaat a resultana.

Ania ti Farm Planning wenno Farm Plan?

Daytoy tay proseso a tingtingen no ania dagiti rumbeng nga aramidem iti ania man a gannuat ken no ania dagiti mabalin a kombinasion. Kas koma: Ania dagiti imula wenno taraknen a dingo. Ania dagiti kasapulán iti panagmulak ken panagtaraknen?

Daytoy tay sistema nga iplano ken yalokaran dagiti kasapulán. Imet ti napintas a farm plan tay kunada a 4 Ws ken 2H. *What (Ania), Who (Asino), When (Kaano), Why (Apay), How (Kasano),* ken *How Much (Mano)*. Apay nga agtaraken wenno agmulaka? Asino dagiti pakaisangratananna wenno pagserbianna? Kaano nga

aramidem ken apay nga aramidem? Apay nga agtarakenka? Apay nga agmulaka?

Mabalin a ti panggepmo ket para laeng iti pamilia. Mabalin met a kas nayon a pamastrekan wenno pamaltuadan. No desididokan iti aramidem, kasano nga irugim? Masapulmo kadi ti nayon a trabahador? Ken mano kadi ti kasapulán a pagpuonan?

Napateg ti plano iti panagtalon ta daytoy ti mangidalan kadagiti aramidem nga aktibidad. Manipud kadagiti kasapulán a materiales, pagpuonan, ken no kasano nga imanehar ti pagtatalonan wenno pagtarakan.

No adda plano, kayatna a sawen, sisasaganaka iti ania man a mapasamak. Kas pagarigan adda napigsa a tudo wenno layus, wenno ania man a mangapektar iti aramid iti pagtatalonan, babeen ti farm plan, idalannatayo kadagiti desision nga aramidentayo.

Dagito man ti sumagmamano a belakad nga impay ni Asst. Prof. Sheena Marie Joy P. Lidora manipud iti MMSU, College of Agriculture, Food and Sustainable Development (CAFSU):

(Maituloy iti panid 56)

Agplanoka Para...
(Tuloy ti panid 52)

1. No agaramid iti Farm Plan, masapul a *flexible*. Adda dagiti tiempo wenno panawen a no kasapulán a ballaren, aramidem, basta pagsayaatan ti gannuat.
2. Masapul a maaramat amin dagiti materiales iti aglawlaw. Awan ti masayang.
3. Panunoten met: Makatulong kadi a mangpataud iti agserbi ken kangrunaanna, mangpasayaat iti kasasaad ti pangbiag? No saan, apay nga aramidem?
4. Kasapulán met nga isaganaan dagiti nadumaduma a risgo ken dagiti saan a mapakpakadaan a pasamak a kas koma ti bagyo wenno layus. Ngarud, planuen a nasayaat. Naandur kadi iti tikag wenno layus dagiti imula kasta met dagiti taraken?
5. Maysa kadagiti nangruna a panunoten, no kas bilang adda nabulod a nagpuonan, makabayadka kadi iti umno a tiempo ken oras? No dagito ket naipiano, makuna a napintas ti naaramidmo a plano.
6. No agplanotayo, panunotentayo ti balikas nga SMART. Umuna: S, masapul nga Specific. Kongkreto a kunada. Ania ti kayattayo a magun-od? Maikadua, M-Measurable. Mano a porsiento ti kayatmo a ngatuan ti apit wenno ganansia? A-Attainable. Mano ti kayatmo a taraknen iti las-ud ti makatawen— tallo, uppat? Kabaalam kadi nga imanehar dagito? R-Relevant. Maibagay kadi met laeng iti agdama a kasapulán ken kadagiti adda iti aglawlawmo? No isu ti imulam wenno taraknem, adda kadi paglakuum wenno gumatang iti produktom? T-Time-bound. Masapul nga adda orasna— no kaano nga irugi ken no kaano a malpas.
7. Kasapulán nga adda *inventory* dagiti materiales agraman dagiti nagbalin a problema iti napalabas. No agtarakenka, adda kadi makaumanay a lugar, no agmulaka, kasano ti kasasaad ti lugar, ti daga? Nataba kadi wenno adda pagalaan iti asidag a pagpadanum wenno pagsibug? No agtaraken, adda kadi masapul a trabahador? No wen, mano ti kasapulán a *capital* (puonan)? Ania dagiti nagbalin a problema iti napalpalabas tapno maliklikan ti pannakaulitda?
8. Adda kadi dagiti alternatibo a wagas a mabalin a makatulong iti gannuat? No agkurangka iti igatang iti agpakan, adda kadi pakalaam iti sabali a pagpakan?
9. Masapul nga lista dagiti agsasaruno nga aktibidad nga isayangkat nangruna no agdadamoka. Adda met listaan dagiti kasapulán. Narigat ti agsammakad iti lagig wenno iti memoria.—O

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Mariano Marcos State University

★ Favorites · September 27 ·

IN PHOTOS | Third batch of MMSU farmer-partners trained on feeding management for small ruminants

By Jareason Fabre

Thank you, DA-INREC, Dingras Experiment Station and MMSU-CAFSD for the planting materials/forages distributed to our SOA graduates and partner LGUs.

Maraming salamat po ❤️



Testimonies/Feedback

**School-on-the-Air (SOA):/Eskuela iti Tangatang
Sungbat Un-unnoy kenni Apo Dios**


Limmabasen ti panawen mi nga agiskwela ngem baben iti iskwela ti tangatang nga insayangkat ti Mariano Marcos State University (MMSU), naisubli kadakami ti gundaway nga agadal.

Siak ni Wilmar Miguel, estudyante ti SOA manipud iti Saricao, Vintar, Ilocos Norte. Ikablaaw ko ti napateg a nagan ni Apotayo a Hesu-Kristo iti tumunggal maysa.

Naammoak ti school -on-the-air babaen iti nasingpet a **Mam Maricel Serrano**, ti SOA coordinator ti iti ilimi a Vintar. Pinagundawayannakami nga agenrol kaduak ti 23 a miembro ti asosasion nga agduduma ti edad ken kasasaad. Adda Senior citizen, adda agtagtagibi, adda physical therapist, adda pharmacist, adu ti farmers, adda dagiti sumagmamano nga estudyante ken adda tallo nga out-of-school youth (OSY).

Ti SOA ket sungbat ni Apo Dios iti karkaragmi. Kunak daytoy ta saandakami laeng nga Insuro ta tinaraydakami pay a maiyaplikar dagiti insuroda. Ti immuna ngamin a panagatendarmi iti SOA, naisuro iti food processing isu't gapuna a nagkiddawkami ti training maipanggep iti longganisa, embutido ken tocino processing nga siaayat a pinatgan ti very supportive President ti MMSU, **Dr. Shirley C. Agrupis**, agyamankami unay ti suportayo mam. Gapu iti lectures iti SOA nga imatmatonan ni **Mam Mercy Ramos Gano** ken laing dagiti trainor's (**Mam Bella**, **Mam Diana**) ken gagetda a dimmanon uray nakaadadayo ti ayanmi, sigida a nakasursuro dagiti kakaduami. Iti agdama manarimaanen ti regular a pinagaramid ken pinaglako ti Saricao Upland Farmers Association (SUFAI) iti Saricao embutido, Saricao longganisa ken Saricao tocino. Kasta pay nga inkariaannakamin ti ama ti ili a Vintar, **Hon Mayor Richard Degala**, iti pundo nga agdagup iti P250k+ para iti daytoy a livelihood.

Agyamyamankami unay kenni Apo Dios ta matungtungpalen dagiti arapaapmi a maaddaan kadagiti nayan a pamastrekan ken pagbiagan. Dakayo appo ti araramaten ni Apo Dios tapnu agbalin kami a self-sufficient. Kararagmi nga iyadadda pay ni Apo Dios ti parabur ken bendisyon nga itedna kadakayo amin agraman pamilyayo.




Pastor Wilmar V. Miguel
Secretary
Saricao Upland Farmers
Association
Brgy. Saricao, Vintar,
Ilocos Norte


**On the implementation of the
School-on-the-Air (SOA) Program/
Eskuela iti Tangatang**

Kayat ko man nga ipadanon ti naimpapusuan a panagyaman ko iti isu amin a mangbukbukel ti SOA. Napintas daytoy a programa ta ado dagiti matulungan na haan laeng a kadagiti pada a mannalon nu di ketdi pay kadagiti out of school youth, entrepreneurs nga adda taraken na ken dadduma pay.


Ado dagiti adal nga masursuro mi panggep ti agrikultura kangrunaan na ti panagtaraken ti dinguen. Ket sapay kuma ta agtultuloy ti kastoy a programa tapno ado pay ti matulungan na apo. Thank you very much.

Mr. Daniel Reototar
Marcos, Ilocos Norte







MMSU Extension Directorate
Helping People Help Themselves



extension@mmsu.edu.ph



<https://www.facebook.com/MMSUExtensionOfficial>



<https://extension.mmsu.edu.ph/>

<https://drive.google.com/file/d/1SkdZzIZhCmcMMxhYw7h7Nttrl-FSp0z2/edit>



MARIANO MARCOS STATE UNIVERSITY

School-on-the-Air (SOA)/Eskuela iti Tangatang on Goat and Swine Production and Processing

Around 2,000 Ilokanos finished a program on goat and swine production with the reopening of the School-on-the-Air (SOA) program of the Mariano Marcos State University - Extension Directorate.

To run for five months, the broadcast classes are aired on DWFB every Wednesday and Friday at 12 nn-1 pm; on DWCI Rayo Adjo-Piddig every Tuesday and Thursday at 5-6 am; and on DWNl Radyo Karruba Burgos every Wednesday and Friday at 11 am-12 nn. Initial broadcast on the other two radio stations is set on June 13 and 14, respectively. The SOA program was livestreamed on the official Facebook pages of MMSU and the radio stations.

Ms. Mercy Gaño, applied communication chief of extension directorate, said topics lined up for broadcast classes include feeding management, farm planning and budgeting, record keeping, disease/health management, animal breeding and reproduction, housing, new production management strategies, meat processing, capital management, waste management, and marketing. Key experts from the College of Agriculture, Food and Sustainable Development, and the College of Veterinary Medicine serve as lecturers. Gaño served as program anchor.

In the learning venture, students took the pre-test, and post-test and other examinations, and to listen or watch the classes to receive certificates of completion. An Achiever's Examination was administered to boost healthy competition among the performing enrollees. Later on, testimonies from technology adopters will be aired to further encourage the adoption of improved farm technologies and avail of crop insurance.

The program, which ended on November 15, is in partnership with the Provincial Government of Ilocos Norte through the Ilocos Norte Agriculture and Fisheries Extension System; participating local government units; Ilocos Agriculture, Aquatic, and Natural Resources Research and Development Consortium; Regional Agri-Aqua Innovation System Enhancement program in Ilocos region; and, Agricultural Training Institute in Region I.

“We take delight in bringing you this latest SOA program, which reflects our commitment to promote relevant technologies to community members, who are always at the core of our development endeavors,” said Dr. Marilou Lucas, MMSU extension director.

MMSU President Shirley C. Agrupis urged the enrollees to support the SOA program and other university extension initiatives which are meant to help empower communities. She also encouraged them to help promote the livestock industry in the province by applying the package of technology that the broadcast program will convey to them.

This year’s SOA program responds to the needs identified by the community members during the evaluation of the previous SOA in 2021 dubbed Tarabay iti Pagtaengan, Pagbiagan, Salun-at, ken Dadduma Pay. It is also in line with one of ACHIEVE agenda of President Agrupis, to deliver high impact and transformative extension and outreach programs.

Links:

June 7, 2023 https://fb.watch/vwkg_QZ1v6/

June 9, 2023 <https://fb.watch/vwkfNZmucV/>

June 14, 2023 <https://fb.watch/vwkexMu-LY/>

June 16, 2023 <https://fb.watch/vwkcScK-Mn/>

June 21, 2023 <https://fb.watch/vwkbm2Urtz/>

June 23, 2023 <https://fb.watch/vwk9Rh2pXI/>

June 28, 2023 <https://fb.watch/vwk8h7i2nY/>

June 30, 2023 <https://fb.watch/vwk6TKOKJ4/>

July 5, 2023 <https://fb.watch/vwk5kaZgv4/>

July 7, 2023 <https://fb.watch/vwk42TVLxm/>

July 12, 2023 <https://fb.watch/vwk2KXF4LN/>

July 19, 2023 <https://fb.watch/vwk0PoJmPb/>

July 21, 2023 <https://fb.watch/vwj-cZXSHv/>

August 23, 2023 <https://fb.watch/vwjXR7EoHG/>

August 25, 2023 <https://fb.watch/vwjWu4bcDE/>

September 6, 2023 <https://fb.watch/vwjUmH2A3S/>

September 8, 2023 <https://fb.watch/vwjRlqUFhr/>

September 13, 2023 <https://fb.watch/vwjLkm1x3i/>

September 15, 2023 https://fb.watch/vwjKi_6A0m/

September 20, 2023 <https://fb.watch/vwjIHrOK7d/>

September 22, 2023 <https://fb.watch/vwjGGbk7JF/>

September 27, 2023 <https://fb.watch/vwjFemP2M0/>

September 29, 2023 <https://fb.watch/vwjCuYa77f/>

October 4, 2023 <https://fb.watch/vwjB0hgxGu/>

October 6, 2023 <https://fb.watch/vwjyZsU8BG/>

October 11, 2023 <https://fb.watch/vwjxFHNsy7/>

October 13, 2023 <https://fb.watch/vwjrtvvRf/>

October 19, 2023 <https://fb.watch/vwjqr0e-j7/>

October 20, 2023 <https://fb.watch/vwjgN9LPAO/>

October 25, 2023 <https://fb.watch/vwi4qwtGQ-/>

November 8, 2023 <https://fb.watch/vwh-YwvjSO/>

November 10, 2023 https://fb.watch/vwgAc_U1Qk/

November 15, 2023 <https://fb.watch/vwgwLlrVx5/>

November 17, 2023 <https://fb.watch/vwgtYSVab4/>

November 22, 2023 <https://fb.watch/vwgrQE5zNr/>

November 24, 2023 <https://fb.watch/vwgqrwwYoj/>

November 29, 2023 <https://fb.watch/vwgoGXlhkf/>

December 1, 2023 <https://fb.watch/vwgmHSDjOZ/>

December 6, 2023 https://fb.watch/vwgi_pbPOP/

December 8, 2023 <https://fb.watch/vwgcOzZC0p/>

December 13, 2023 <https://fb.watch/vwgbdEzkiJ/>

December 15, 2023 <https://fb.watch/vwg93HaF-a/>

December 20, 2023 <https://fb.watch/vwg6AtjNox/>

December 22, 2023 <https://fb.watch/vwg3hFFcGi/>

December 27, 2023 <https://fb.watch/vwfS6jt5C1/>

December 29, 2023 <https://fb.watch/vwfzacMtAU/>