

S & T Model Farm on Free Range Darag Native Chicken in Dumarao, Capiz

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Abstract

Science and Technology Model Farm (STMF) on free range Darag native chicken production showcases the recommended Science and Technology interventions leading to optimum production performance of the enterprise. The general objective was to develop and showcase the package of technologies (POT) for free range Darag native chicken production. Promotion of the package of technologies was done through: 1) seminars and trainings in 33 barangays of Dumarao with a total of 1,342 participants, 2) distributed 33,550 doses (67.10 kg) of botanical dewormer, 3) copyrighted 1 video and 16 IEC materials and distributed 5,368 IEC materials to local farmers, 4) registered 4 Utility Models on ethnobotanical anthelmintics for free range chickens and 5) conducted Farmers' Field Day and Farm cross visit at Taslan, Dumarao, Capiz, the farmer cooperator's site. Post survey revealed that the technologies that were widely adopted by the poultry raisers were the use of botanical dewormer and the adoption of free range management system.

Keywords: Darag Native Chicken, Free Range, S&T Model Farm

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Introduction

Western Visayas ranks first among the three major native chicken producers in the Philippines with 13 million native chicken population (BAS, 2015; Panay News, 2017). The province of Capiz was reported to have 1,345,925 heads of native chickens (BAS, 2015).

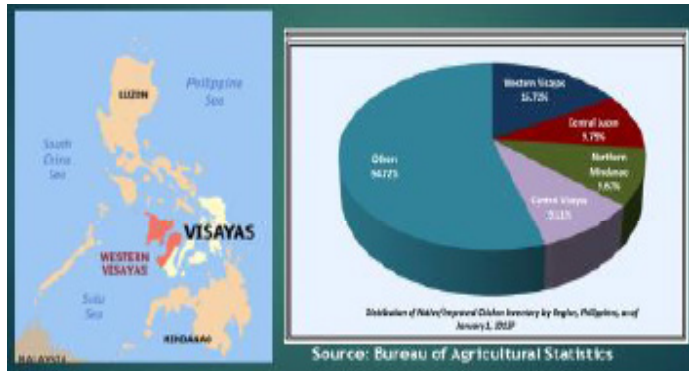


Figure 1.0. Scale to medium scale native chicken raisers in Western Visayas.

Research Program on Development of Sustainable Darag Native Chicken Production System in Western Visayas put together component technologies into sustainable enterprise for free-range native chicken production (Cocjin & Lambio, 1999; PCARRD, 2000; PCARRD, 2003).

The establishment of Science and Technology Model Farm (STMF) on free range darag native chicken production showcased the recommended S&T interventions leading to optimum production performance of the enterprise (PCARRD, 2007; PCAARRD, 2012; ACIAR-IIRR, 2009).

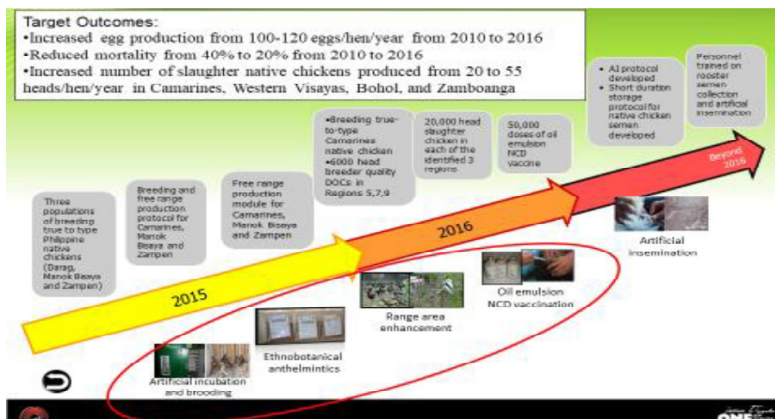


Figure 2.0. Native chicken ISP roadmap

The project was conducted to develop and showcase the package of technologies (POT) for free range Darag native chicken production. Specifically it aimed to: 1.) promote wider adoption of the full application of package of technologies to attain technology convergence of free range Darag native chickens for the existing poultry raisers in Dumarao, Capiz; 2.) achieve increase farm production and profitability of free range native chicken-raisers respectively through the full adoption of POT on free range native chicken production; 3.) strengthen linkages/partnerships with farmer cooperators (from production to marketing); 4.) develop and produce IEC materials and video presentation of STMF on free range chicken production POT; and 5.) train poultry raisers in the 33 barangays of Dumarao, Capiz.

Methodology

Project cooperator and site



MAP of Capiz (2015)

Sandbox Networks, Inc. (2000)

Figure 3.0. Project site in Dumarao, Capiz

The project was implemented in the farm of the farmer-cooperator, Mr. Jose Bardies at Taslan, Dumarao, Capiz. Natural vegetation was considered as one of the major source of feeds for the native chickens.

Farmer cooperator and his practices

Mr. Jose Bardies, the farmer cooperator was the owner of the pasture land used in the project, he underwent several trainings in poultry production, have the resources and is innovative and willing to adopt new technology, used his farm and pasture land as the research center and a techno demo farm on poultry production. Have a good working relationship with the project staff and assisted them in data gathering and provided other additional information.

Identified Technology Gap

Current socio-economic and technological status of poultry production in the Province of Capiz. Current knowledge and practices regarding free range management of native chicken production. Identification of different natural resources of feeds in the area. Market status of poultry industry in the Province. Identification of potential marketable price for native chickens, possible local and institutional market and partners to be involved in the promotion of native chicken production. Present health and management problems and other needs on native chicken production in the locality.

Table 1.0. S&T Interventions

Existing Practices (Farmer-Cooperator)	S&T Interventions
Darag BNative Chickens Raised in one group, unclassified Hatchery: The use of Egg Incubator	Darag Native Chicken (WVSU) Breeding: Ratio of 5 hens: 1Rooster Hatchery: The use of Egg Incubator
Commercial feeds in chicks: Corn grits, rice bran for growers and breeders	Organic/Natural Feeds
Commercial Dewormer	Botanical Dewormer (CapSU)
Vaccination: B1, La Sota	ND Vaccines (ASU): Oil emulsion vaccine
Natural Grassland enhanced with legumes	Range Management (CapSU) Stocking Density: 10 heads:10 square meters Ratio 5:1 (Hen:Rooster ratio) Enhanced with legumes

Package of Technologies (Ozaraga, B., Lachica, & Ozaraga, M.S., 1991; Ozaraga & Abella, 2014; Ozaraga, B. P., 2014; Ozaraga, M. S. I., 2014) includes the introduction and use of the following technologies: Artificial Incubation, Botanical Dewormer, ND Vaccination, and Free Range Management System.

Results and Discussion

Product



Figure 4.0. Establishment of S&T Model Farm on Free Range Darag Native Chicken (100%).

The establishment of S&T Model Farm on Darag native chicken at Taslan, Dumarao, Capiz served as the product of the project. The model farm is the show window of the recommended S&T interventions on Darag native chicken production for wider promotion and adoption of the poultry raisers in Dumarao, Capiz and in the neighboring provinces in Panay island.

Package of Technologies

The recommended S&T interventions includes the development of native chicken breeding and hatchery management, artificial incubation, botanical dewormer, New Castle disease vaccination, and the free range management system for native chicken production which was religiously and correctly practiced by the farm with technical supervision of the project team. It has positive feedback from the selected farmer-adopters. Based on the post survey conducted and monitored the utilization of botanical dewormer and the practice of free range management system were found to be widely used and adopted technologies by the poultry raisers. It was also found out that farmer-adopters are still looking forward to fully adopt the whole POT.

People and Services

Seminars were conducted in 33 barangays in the municipality of Dumarao, Capiz having a total of 1,342 participants and distributed 5,368 IEC materials to local farmers who participated in the seminar. Apart from the capacity building, integrating the concepts of entrepreneurship created the addition business opportunities and employment. Thus, upscaling of the STMF is an appropriate mechanism to widely realize the value of technologies as a tool in developing the production efficiency and performance of the native chicken.

Places and Partnership

In coordination with the Office of Municipal Agricultural Officer and Local Government Unit of Dumarao, the team was able to conduct trainings of Package of Technologies for Darag native chickens in 33 barangays in the municipality of Dumarao, Capiz.

Publication of IEC Materials

Information, education and communication (IEC) materials were created, copyrighted, distributed and published. This is for further dissemination of the technologies was made to a greater number of poultry raisers and entrepreneurs to adopt the package of technologies.

Patents

To guard the intellectual rights of this novel work, this project was able to register four Utility Models by the Intellectual Property Office Philippines through the assistance of Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) and Technology Application and Promotion Institute (TAPI).

Policy Advocacy

The Sangguniang Bayan of Dumarao, Capiz issued Resolution No. 17-064 “Encouraging the local farmers of all thirty three barangays of Dumarao, Capiz to raise and propagate Darag native chickens through the Barangay Councils. The Municipal Agriculture Office spearheaded the provision of necessary funds thereof in support to the Darag propagation program of the municipal government of Dumarao”.

Adoption of the Technology

A total of 165 identified poultry raisers in the municipality of Dumarao, Capiz adopted the introduced packaged of technologies at five of the participants in seminars/training per barangay.

Outputs

1. The package of technologies had been introduced to the farmers and 165 farmer-participants had adopted the said POT.
2. Promoted the technology on botanical dewormer as input to “natural” free-range native chicken production and distributed 33,550 doses of botanical dewormer.
3. Strengthened the linkages/partnership with farmer-cooperators.
4. Developed, produced and copyrighted 16 IEC materials and 1 video presentation of STMF on free range Darag native chickens.
5. Disseminated 5,368 IEC materials to the local farmers of Dumarao, Capiz.

6. Trained 1,342 poultry raisers from the 33 Barangays of Dumarao, Capiz on the importance of the package of technologies for Darag native chickens.
7. Patented four utility models on botanical dewormer for free range chickens.

Conclusions

The following conclusions were drawn: 1) promoted wider adoption of the full application of package of technologies to attain technology convergence of free range Darag native chickens for the existing poultry raisers in Dumarao, Capiz; 2) achieved increase farm production and profitability of free range native chicken-raisers respectively through the full adoption of POT on free range native chicken production; 3) strengthened linkages/partnerships with farmer cooperators (from production to marketing); 4) developed and produced IEC materials and video presentation of STMF on free range chicken production POT; and 5) trained poultry raisers in the 33 barangays of Dumarao, Capiz.

Recommendations

The Package of Technologies in the STMF on Darag Native Chicken may be extended to other municipalities/provinces of Panay Island, Philippines. Technology Commercialization on Darag Native Chicken may also be conducted.

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