Agriculture Strategic Action Plan 2011–2015



Federated States of Micronesia











SPC Land Resources Division

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Original text: English

Secretariat of the Pacific Community Cataloguing-in-publication data

Agriculture strategic plan 2011-2015: Pohnpei State, Federated States of Micronesia / prepared by the Office of Economic Affairs of Pohnpei State and the Secretariat of the Pacific Community

1. Agriculture — Planning — Pohnpei (Micronesia).

2. Agricultural productivity — Planning — Pohnpei (Micronesia).

3. Agricultural development projects — Pohnpei (Micronesia).

I. Title II. Pohnpei (Micronesia). Office of Economic Affairs III. Secretariat of the Pacific Community

338.1609966

AACR2

ISBN: 978-982-00-0432-0

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Acknowledgements

The Pohnpei Agriculture Office of Economic Affairs acknowledges the valuable input from its partners at a strategic planning workshop. This workshop was a first step in developing Pohnpei's Strategic Action Plan. These partners included: the Federated States of Micronesia's Division of Resource Management and Development, Pohnpei Department of Health Services; Pohnpei Department of Land and Natural Resources; Pohnpei Department of Education; Pohnpei Environmental Protection Agency; Pohnpei Marine Resources; Conservation Society of Pohnpei; College of Micronesia, Federated States of Micronesia, Corporate Research and Extension Services; United States Department of Agriculture, Natural Resources Conservation Services; Pohnpei Farmers Association; Pohnpei Legislature; Small Business Development Centre; Island Food Community of Pohnpei; and the Secretariat of the Pacific Community's Development of Sustainable Agriculture in the Pacific project. The inception workshop was facilitated by Ms Lucille Apis-Overhoff of The Nature Conservancy in July 2008. Advisory assistance was also received from the Secretariat of the Pacific Community's regional offices in Pohnpei and Suva, Fiji.

The Strategic Action Plan was finalized by the Administrator of the Pohnpei Office of Economic Affairs, Mr Valerio Hallens; Chief of Pohnpei Agriculture, Mr Adelino Lorens; Program Manager for Agriculture and Forestry, FSM Government's Department of Resources and Development, Division of Resource Management and Development, Mr Gibson Susumu; and the Secretariat of the Pacific Community's Land Resources Division Pohnpei-based Participatory Extension Officer, Mrs Mereseini Seniloli.



It gives me great pleasure to present the five-year Strategic Action Plan 2011–2015 for Pohnpei State Agriculture. The Strategic Action Plan will be the road map for agricultural development in Pohnpei State. There are identified challenges that need to be met and overcome in order for agriculture production to be sustainable. There are also identified opportunities that need to be explored in order to better use the agricultural resources that the State has been blessed with.

I look forward to the implementation of the Strategic Action Plan on all levels of management. That is, from the executive management, middle management down to the field level where activities are carried out. Field level implementation of activities is crucial for our farmers to benefit, improve and sustain their healthy livelihood. I am also keen to see how the Strategic Action Plan may improve both domestic and export markets.

My hearty congratulations to all our partners and stakeholders who contributed to the development of this Strategic Action Plan. This is a job well done. Let us work together to ensure that the Strategic Action Plan is implemented so that we can eat healthy nutritious food, live healthy, and have healthy families.



Mr Valerio Hallens Administrator, Office of Economic Affairs Pohnpei State, Federated States of Micronesia

Executive Summary

This Strategic Action Plan (SAP) provides the vision and direction for Pohnpei State Agriculture over the five-year period 2011–2015. The overall goal of this SAP is to identify concerns that are specific to agriculture and which need to be addressed over the next five years through a coordinated and practical approach to increase food production in Pohnpei, while also promoting environmentally sound farming practices. The SAP has been developed in consultation with key stakeholders, including the private sector, non-governmental organizations, communities, and national and municipal government representatives. Building on previous work by the Secretariat of the Pacific Community's Development of Sustainable Agriculture in the Pacific project, four priority areas have been identified, which will be the basis for program of work over the next five years.

The priority areas include: 1) human and institutional capacity building; 2) food and nutrition security; 3) limited market opportunities and lack of competitiveness of agricultural products; and 4) public awareness and collaboration. To fulfill its vision, the Pohnpei Agriculture Office of Economic Affairs (AOEA) is committed to pursuing a number of strategies towards achieving these priority areas, and has agreed on four sector goals: 1) Pohnpei Agriculture is fully resourced to carry out its operations effectively; 2) enhance production, increase productivity, and resilience of crop and livestock systems for food security, nutrition, and income generation; 3) improve marketing systems and market access to local produce; 4) Increase public awareness of the importance of agriculture, and strengthen collaboration with stakeholders and communities.

The Pohnpei State Agriculture office on its own cannot effectively implement the strategy due to human resource and financial constraints, and is forming partnerships with other stakeholders. Hence, this SAP identifies specific concerns related to agriculture, which will be addressed over the next five years or more. Accordingly, as resources and priorities change over time and additional information is gathered, we envision that the SAP will be updated and revised as needed. This SAP will be monitored and evaluated annually by the AOEA and updated as necessary. AOEA will take the lead in monitoring and reporting the progress of this SAP to relevant stakeholders.



Abbreviations

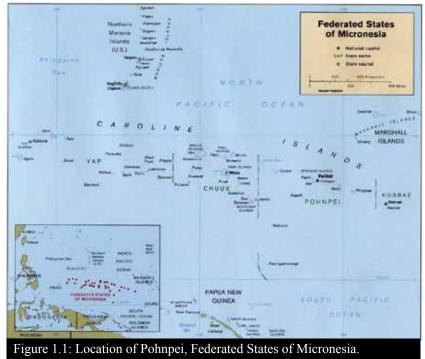
AES	-	Agriculture Experiment Station
AOEA	-	Agriculture Office of Economic Affairs
CBD	-	Convention of Biological Diversity
COM	-	College of Micronesia
CRE	-	Corporate Research and Extension
CSP	-	Conservation Society of Pohnpei
DLNR	-	Department of Land and Natural Resources
DSAP	-	Development of Sustainable Agriculture in the Pacific
EPA	-	Environmental Protection Agency
FAO	-	Food Agriculture Organization
FSM	-	Federated States of Micronesia
GDP	-	Gross Domestic Product
IFCP	-	Island Food Community of Pohnpei
JEMCO	-	Joint Economic Management Committee
JOCV	-	Japanese Overseas Cooperation Volunteers
NGOs	-	Non-Governmental Organizations
NOAA	-	National Oceanic Atmospheric Administration of the United States
NPOs	-	Non-Profit Organizations
NRCS	-	Natural Resources Conservation Services
PFA	-	Pohnpei Farmers Association
PSBDC	-	Pohnpei Small Business Development Center
SAP	-	Strategic Action Plan
SARE	-	Sustainable Agriculture Research and Education
SBD	-	Small Business Development
SPC	-	Secretariat of the Pacific Community
SPREP	-	Secretariat of the Pacific Regional Environment Programme
TNC	-	The Nature Conservancy
UNICEF	-	United Nations Children Fund
UOG	-	University of Guam
USDA	-	United States Department of Agriculture
USP	-	University of the South Pacific

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1. Agriculture Strategic Action Plan 2011 - 2015 Pohnpei State, Federated States of Micronesia

State Profile

The island of Pohnpei is one of the four states of the Federated States of Micronesia (FSM). It is located at 6054' N latitude and 158014' E longitude in the Caroline Islands group, about 4,900 km southwest of the Hawaiian Islands (Fig. 1.1). It is the highest (772 m) and second largest (355 km2) in the group and one of the few high islands (Raynor and Fownes 1993) in FSM. The island is of volcanic origin and is about five million years old (Keating et al. 1984). Average rainfall is approximately 4,800 mm and is evenly distributed over 300 days of the year according to the United States National Oceanic Atmospheric Admin-



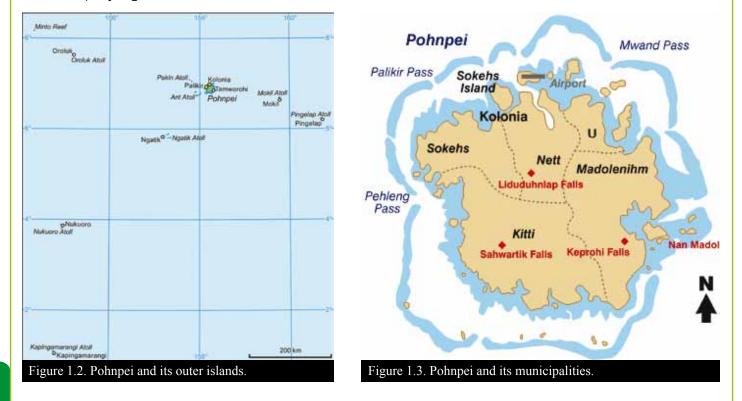
istration (1987). Temperatures average 270C and relative humidity is high.

A study by the Asian Development Bank (1996) reported that 15% of Pohnpei Island is covered by intact upland forests, with an additional 15% consisting of disturbed upland forests. Drew (2008) recorded that traditional agroforestry areas cover 37% of the island, with coastal forests (16%) and secondary forests (12%) comprising much of the remainder of the island. Extensive mangrove forests and a fringing reef surround much of the island. In the lowlands, highly weathered oxisols are the most common soils, whereas inceptisols are more commonly found in the interior and upland regions of the island (Laird 1987).

The upland forests are very rich in biodiversity, with high numbers of flora and fauna found only in Pohnpei (i.e. endemic) because of the island's relative age and isolation. According to Merlin et al (1992), approximately 34% of the 767 plant species that have been recorded on Pohnpei are

native to the island's upland forests. One hundred and eleven plant species are endemic to the island and 90% of these are found in upland forests. In addition, 16% of the island's bird species are endemic (Merlin et al. 1992). Pohnpei remains one of the most biologically diverse of any island in Micronesia (Merlin and Raynor 2005).

Pohnpei has 8 inhabited atolls, 25 smaller islands within a barrier reef, and 137 widely-scattered coral atolls. Pohnpei has a population of 34,400; 32,100 on the main island and 2,300 on the outer islands (Government of the Federated States of Micronesia 2002). Pohnpei's population is estimated to increase to over 48,600 by 2014. The age distribution is heavily skewed toward younger ages, with over 50% of the total population under the age of 25 (Government of Federated States of Micronesia 2002). The island's eight inhabited atolls include Mwoakilloa, Pingelap, Kapingamarangi, Nukuoro, Sapwuafik, Ant, Pakin and Oroluk (Fig. 1.2). Pohnpei is divided into five municipalities. The island's main urban area is Kolonia located within Nett municipality (Fig. 1.3).



Agriculture Office of Economic Affairs

Pohnpei State Agriculture reports to the Administrator of the Office of Economic Affairs. Its current roles and functions include the following:

- Responsible for the Pilot Farm, which is a technical assistance project funded by the People's Republic of China. Five Chinese agriculturalists are provided by the government of the People's Republic of China to work with local counterparts to pass on new and appropriate methods of vegetable production.
- Provides services in conducting meetings, farm and/or office visits, telephone enquiries, equipment services and inputs sales to farmers. Supports and collaborates with the College of Micronesia Corporate Research and Extension (Pohnpei Campus) for extension services.
- Maintains a gene-bank collection of the main traditional food crops, including swamp taro (Cyrtosperma chamissonis) and bananas (Musa sp.).
- Coordinates agricultural functions with partner agencies to promote local agricultural production for health, food security, and environmental and cultural benefits.
- Establishes and supports the marketing of local commodities, a new and important partnership function to promote marketing of local farm produce.

The Agriculture Office of Economic Affairs (AOEA) employs 10 permanent employees and 6 contract workers. The technical team includes a Chief of Agriculture, Agriculturist IV, Agriculturalist III, Agriculturalist II, Equipment Operator III, Equipment Operator III, Equipment Operator II, and three farm laborers.

Our vision

The people of Pohnpei are living healthy, full and prosperous lives through a strong and vibrant agriculture sector that provides for self-sufficiency through increased production and abundance of locally grown nutritious food in a culturally and environmentally sustainable manner.

Our mission

To work in partnership with agricultural communities and agencies to enable an environment for a more dynamic and vibrant agricultural sector that is inclusive and shared to bring about change that results in food security, income generation, environmental and public health improvements.

Our goals

The overall goal of this Strategic Action Plan (SAP) is to identify specific agriculture-related concerns that should be addressed over the next five years through a coordinated and practical approach towards increased nutritious food production while promoting environmentally sound farming practices.

Our role

AOEA will act as the key facilitator for all actions specified in this SAP.

Our stakeholders

Our key stakeholders will be the Pohnpei general public, private sector and the Pohnpei State government.

Our target audience

All of our activities will focus on agricultural development with regards to the following specific target audiences.

Municipalities

- Villages
- Schools
- Churches
- Non-profit organizations (NPOs) and non-governmental organizations (NGOs)
- Grass roots level (men/women/.youth/farmers)
- Local governments

State

- Importers
- Exporters (agricultural products that can be produced locally)
- Policy-makers
- State government
- NGOs and NPOs
- Public market owners

Our values

Excellence and professionalism: We shall strive to achieve the highest standards in service delivery and shall actively explore opportunities to improve on those standards. We shall also ensure that performance management, as a service delivery culture, will be integrated into all our operations.

Commitment: We commit ourselves to being an effective agent of agricultural transformation and, therefore, will embrace a culture of customer service. The farmer, service providers and all our stakeholders will be central to our operations.

Diligence and courtesy: We shall be at our places of work during official hours of duty and shall diligently devote ourselves wholly to our work. We shall treat all our valued clients and colleagues with courtesy.

Integrity: We shall uphold high moral integrity in the provision of our services. To this effect, we shall refrain from seeking, offering or accepting favors or inducements, financial or otherwise, in the course of discharging our duties. We shall not use public property or official time to fulfill private needs; and we shall not use information acquired in the course of official duties to gain personal advantage.

Gender equity: Taking cognizance of the key role of women in production and marketing of agricultural products, we shall endeavor to promote gender-sensitive practices and culture within our staff and the wider agricultural stakeholders.

Partnership-building: We will promote and embrace partnerships and participatory processes in project formulation and implementation of our activities. Active participation of our stakeholders, especially the private sector and grassroots communities, will enhance ownership of programs and projects.

Accountability and transparency: We shall be accountable and transparent to the government and to the people of Pohnpei.

Efficiency and responsiveness: We will serve our clientele in an efficient manner, ensuring that all requests are dealt with as promptly as possible.



Background

Pohnpeian agroforestry

Agriculture has been an important part of life on Pohnpei, which is known as the "Garden Island" of FSM. According to Haun (1984), indigenous agroforestry is a dominant feature of both the landscape and culture of Pohnpei, and has been practiced for thousands of years. Raynor and Fownes (1993) stated that traditionally, almost all production — be it for subsistence, local market, or export — is by family units using localized agroforestry systems, providing employment, food security, and income while maintaining the cultural and ecological integrity of the island and its population. Numerous crop types and varieties have been introduced through migration and agricultural development projects. This trend was identified by Barrau (1961), Ragone et al. (2001) and the European Union-funded Development of Sustainable Agriculture in the Pacific (DSAP) project (2009). For example, new varieties of vegetables such as okra (*Abelmoschus esculentus*) and eggplant (*Solanum melongena*) are now included in traditional agroforestry systems on Pohnpei.

Micronesian agroforestry can be separated into two distinct types (Clarke and Thaman 1993). The first is practiced on the higher and larger islands (e.g. Pohnpei). The general characteristics of the Pohnpeian agroforestry system are an extensive, permanent overstory of tree crops, forest trees above fruit and multipurpose trees, and an understory of shrubs, root crops, and herbaceous plants (Clarke and Thaman 1993). The upper main canopy species include coconuts (*Cocus nucifera*) and breadfruit (*Artocarpus altilis*). Ylang-ylang (*Cananga odorata*) and yams (*Dioscorea* spp.) are both common in between the main canopy and sub-canopy layers. Within the sub-canopy, bananas and plantains (*Musa* spp.), hibiscus (*Hibiscus tiliaceus*), noni (*Morinda citrifolia*), yam vines (*Dioscorea* spp.), and soursop (*Annona muricata*) dominate planting activities. Below 2.5 m, sakau (*Piper methysticum*) is very common, in addition to root crops such as wild taro (*Alocasia macrorrhiza*), sweet taro (*Colocasia esculenta*) and swamp taro (*Cyrtosperma chamissonis*) (Raynor and Fownes 1991a,b). *Hibiscus tiliaceus* is the multipurpose tree, because it is used for firewood and light construction, poles or whole trees are used for yam trellises, its leaves are used as green manure in soil pits dug for yams, its bark for rope, and its inner bark includes the best fibers for straining mashed *Piper methysticum* roots for drinking (Raynor and Fownes 1991a,b).

The second type of agroforestry is practiced on atolls, where environmental constraints are extreme (e.g. tidal waves, rising sea levels, salt water intrusion into taro patches, drought). These are all factors of climate change that do not isolate the eight inhabited atoll islands of Pohnpei from their devastating effects. The composition of mixed tree gardening on the atolls would be similar to that of highland Pohnpei with the inclusion of pandanus (*Pandanus* spp.), which is a multipurpose tree.



Crops grown in Pohnpei

Locally produced indigenous food crops cultivated within agroforests dominate Pohnpei's agricultural sector. Home food gardens are a common feature of most households with pigpens built on riverbanks and coastal shores. These provide households with a ready source of food, fruit, spices, herbs and in some cases, medicinal plants (Clarke and Thaman 1993). In urban areas of Kolonia, these gardens are the main supplement to wage incomes.

Research conducted by Drew (2008) confirmed that all participating households cultivated multiple crops within their home food gardens, including coconuts (*Cocus nucifera*), bananas (*Musa* spp.), yams (*Dioscorea* spp.), breadfruit (*Artocarpus altilis*), sakau (*Piper methysticum*), swamp taro (*Cyrtosperma chamissonis*), and betel nut (*Areca catechu*). All participating households stated that their agroforests were currently producing enough food crops for household consumption needs. The three main crops used for ceremonial purposes were yam, sakau and breadfruit. The majority of households sold at least some of the crops for income.

Other crops grown on home food gardens include root crops: sweet taro (*Colocasia esculenta*), sweet potatoes (*Ipomoea batata*), cassava (*Manihot esculenta*); fruit trees: papaya (*Carica papaya*), citrus (*Citrus spp.*), soursop (*Annona muricata*), mangoes (*Mangifera indica*); fruits: pineapple (*Ananas comosus*), watermelon (*Cirtullus lanatus*); vegetables: cabbages (*Brassica spp.*), eggplant (*Solanum melongena*), cucumber (*Cucumis sativus*), bell peppers (*Capsicum spp.*), tomato (*Lycopersicon esculentum*), okra (*Abelmoschus esculentus*). These crops are usually grown in small quantities by households. A few of these crops are cash crops and sold in local markets and supermarkets such as Palm Terrace and Ace Commercial. The most common ones are cucumber, bell pepper and eggplant. Export crops for niche markets include black pepper (*Piper nigrum*), betel nut (*Areca catechu*), bananas, sakau and small amounts of pepper leaves (*Piper betle*).



Challenges and Priorities

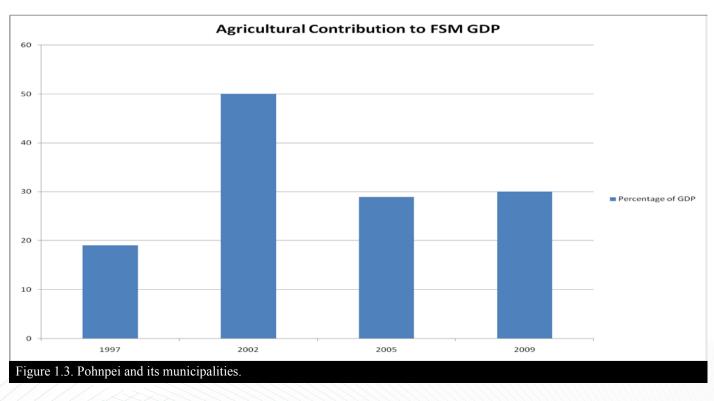
Challenges

Locally produced indigenous food crops have played an important role in food security, maintenance of availability of diverse cultivars and social status (Barrau 1961; Raynor and Fownes 1991 a,b). However, since the beginning of the Compact of Free Association 1 funding, there has been increasing levels of imported food because Pohnpeians have become increasingly accustomed to the convenience of cooking processed foods (dominated by imported rice), and more western appetites (Drew 2008).

Reliable estimates of the annual economic value of all agricultural products produced on Pohnpei are few. Available estimates state that in 1997, the agricultural sector was responsible for approximately 9% of Pohnpei's gross domestic product (GDP), while other sectors made up the majority of the remaining GDP during the same year: wholesale and retail trade (30%), government services (30%) and transportation, storage and communications (9%) (Pohnpei Statistical Office, 1998). Table 1.0 shows the agricultural sector contribution to the GDP over the last 10 years for FSM.

Pohnpei's agricultural sector contributed 9% and 16% to Pohnpei's GDP in 1997 and 2002, respectively. GDP growth rates ranged between 0.3% and 3.0%. One of the key challenges is the unavailability of baseline data that an agricultural census could easily provide.

Given the long history of agriculture on Pohnpei and the uncertainties about its economic prospects, future developments of Pohnpei's agricultural sector should be based on a more informed understanding of agriculture's current role, and how future development strategies may influence farmers' decisions (Pohnpei Office of Agriculture and Forestry 1996). A stated objective of the national and state governments is to promote import substitution policies to reduce dependence on imported food and increase household incomes (Office of the Governor 1996; Government of the Federated States of Micronesia, 1999). Yet specific strategies have not been identified, largely due to a lack of baseline data about the production and economic value, and use of existing agricultural systems for which comparisons can be made (Drew 2008).



Sources: <u>http://www.economic.expert.com</u> <u>http://www.en.wilkipedia.org/wilki/Economy</u> <u>http://www.state.gov</u>

¹The Compact of Free Association between the Federated States of Micronesia and the United States provide for US economic assistance (including eligibility for certain US federal programs), defense of FSM, and other benefits in exchange for US defense and certain other operating rights in FSM, denial of access to FSM territory by other nations, and other agreements.

Pohnpei has its share of serious nutrition-related diseases, which include vitamin A deficiency, anemia, diabetes, heart disease and cancer (FAO 2009). These nutritional problems are mainly linked to the types of food eaten, which is influenced not only by personal choice, but also by cost, ease of preparation, availability and accessibility. Increased production of local nutritious foods and strengthened local markets are important outcomes to be achieved.

Therefore, agricultural production for food security, income and livelihoods is crucially important, but must be addressed by a socio-culturally sensitive, community-based approach that addresses the different priority needs of communities. Building on from previous work by the Secretariat of the Pacific Community's DSAP project (2005), through a participatory appraisal approach, some key issues affecting the agriculture growth in Pohnpei were identified (see Annex 1). In July 2008, a group comprising Pohnpei State Agriculture staff, with key stakeholders, gathered to conduct a comprehensive assessment of Pohnpei's agricultural sector in order to identify problems, constraints, challenges and opportunities, and to make recommendations for the way forward (Annex 2). The two completed assessments identified key issues, which were combined and used for the development of the agricultural sector logical framework (see Annexes 3, 4 & 5).



Key issues and priority areas

The identified key issues were clustered into four priority areas that will be the basis for program work in the next five years.

Human and institutional capacity

- · Lack of funding to support sector activities
- Lack of support for farmers' association
- Lack of human resources
- Lack of training opportunities

Food and nutritional security

- Increased consumption of imported foods
- Increasing levels of food and nutrition-related diseases
- Lack of crop and livestock production systems
- · Lack of access to improved varieties
- Lack of nursery and/or gene banks
- Poor soil fertility
- Climate change and sea level rise
- Increase incidence of pests and/or diseases and lack capacity in pest management
- Lack of guidelines for sustainable production practices and loss of traditional knowledge

Limited market opportunities and lack of competitiveness of agricultural products

- Lack of farmers market
- Poor pricing of local produce
- Lack of transportation
- Lack of farm management and marketing skills

Public awareness and collaboration

- Poor dissemination of information
- · Poor communication between farmers and extension agents



Agricultural Logical Framework

Goal

To ensure food security and a healthy livelihood for Pohnpeian families.

Performance indicators

The performance indicators for the goal are:

- Contribution of agriculture to household incomes and GDP increased •
- Prevalence of non-communicable diseases reduced •
- Adoption rate of sustainable agricultural practices increased

Objectives

- ٠
- Agriculture Office fully resourced Sustainable crop and livestock production increased •
- Increased market opportunities provided
- Improved awareness program on agriculture •



Logical Framework Summary Matrix

Narrative	Performance Indicators	Means of Verifi- cation
Objective 1: Agriculture Office fully resourced	Effective administration and operational activities demonstrated	AOEA annual reports
Output 1.1: Adequate funds for agricultural operations secured	Increased rate of implementing activities	AOEA annual
	Efficiency and effectiveness of services to clients increased	reports Budget reports
Output 1.2: Current activities evaluated and improved	Increased adoption of recommended appropriate technolo- gies	AOEA annual reports
Output 1.3 Collaborative efforts with relevant partners strengthened and im-	Increased number of relevant partners	AOEA annual
proved	Increased adoption of integrated participatory approach	reports
Output 1.4: Capacity building for human resources provided and enhanced	Improved skilled staff	Training reports
	Increased knowledge attained	
	Improved attitudinal approach to clients	
Objective 2: Sustainable crop and livestock production increased	Increased crop area and production	AOEA annual reports
	Increased adoption of sustainable management systems	Crop and live- stock census
Output 2.1: Appropriate crop management practices developed and promoted	Increased livestock numbers and production Increased adoption of appropriate crop husbandry practices	AOEA annual
salpar 2 upropriate erep management practices developed and promoted		reports
Output 2.2 Pests and diseases management improved	Increased crop area and production Pests and diseases identified	AOEA annual
Output 2.2 rosts and diseases management improved		reports
Output 2.3: Appropriate livestock management practices developed and pro-	Adoption of control measures increased Improved breeding stock	AOEA annual
moted	Adoption of appropriate livestock husbandry practices increased	reports
	Increased livestock production	
Output 2.4: Increased support for farmers provided	Number of farmers served increased	AOEA annual
	Increased crop and livestock production	reports
	Increase in household income	Local market
Objective 3: Increased market opportunities provided	Increased trade (domestic and export)	reports AOEA annual
		reports
		Trade reports
Output 3.1 Suitable domestic and export market support systems strengthened	Increased number of domestic and export markets	Trade reports
	Increased supply of and access to food (locally grown and imported)	Statistics reports
	Increased consumption of nutritious food (locally grown	Health reports
	and imported)	AOEA annual reports
Output 3.2 Domestic marketing structures improved	Increased sale of farm produce Viable local markets	AOEA annual reports
	Increased supply of and access to locally produced crops	Statistics reports
	and livestock	
	Increased household income for farmers	
Objective 4: Improved awareness program on agriculture	Increased number of Pohnpeians planting crops and raising livestock	AOEA annual reports
	Increased number of youths sensitized to do agricul- tural activities	Youth reports
Output 4.1: Capacity of research and extension outreach strengthened	Adoption of recommended agricultural practices increased	AOEA annual
	Skilled research and extension staff	reports
		Training reports
	On-farm demonstration plots increased	
Output 4.2: Capacity of information services to public improved	Farmers' radio broadcasts improved	Radio programs
	Agricultural news items on Kaselehlie Press strengthened	News articles
	Regular TV programs developed	TV programs
		Brochures
		Posters

A detailed logical framework is in Annex 5, which can be used for mobilizing financial resources and monitoring and evaluation purposes. Annex 6 shows an annual plan that helps facilitate the implementation of activities.

Way Forward

This SAP covers the five-year period from 2011–2015. It will be monitored and evaluated by Pohnpei's AOEA using the format proposed in Annex 6 and updated as necessary. A review of this plan should be conducted in 2015 to develop a revised plan. AOEA will take the lead in monitoring and reporting the progress of this SAP to relevant stakeholders.

Conclusion

AOEA faces the challenge of implementing the SAP but can capitalize on its excellent collaborative networks with its partners to successfully implement it. A monitoring and evaluation component has been added to the SAP to enable AOEA to gauge its progress of operational activities.





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Annex 1: Problems Identified in Pohnpei (by DSAP FSM and Pohnpei Agriculture Team)

Problems clustered into subject groups

Genebank

Lack of access to seeds around the island Lack of nursery banks around the island to supply planting materials Shortage of planting materials

Soil fertility

Improper use of fertilizer Unavailability of fertilizer Poor soil fertility

Food security

Increased consumption of imported foods instead of local foods Changing lifestyle that affects eating habits Local food is too expensive Low nutritional value of imported foods Too lazy to farm and prepare recipe for local food Dislike for local foods by younger generation Not quick to prepare and cook local foods Men and women lack cooking skills

Farm equipment

Lack of agricultural tools No fence built around farms Lack of farming equipments

Extension communication

Poor communication between farmers and extension agents Poor dissemination of agricultural information from national to state government Poor coordination among extension agents towards serving farmers High cost of communication

Training

Lack experience in farming Lack of training in agricultural production

Farm cooperative No establishment of cooperative development

Market

Bias in buying and selling Poor price for agricultural produce No transportation Lack of market opportunities to sell produce Gasoline too expensive Lack of markets around the island Weak private sector

Farm management

No planning for farm work No record keeping Lack of area to plant Do not have time to work on farm (women) Poor family planning No money to do agricultural work Not enough cash to start farming

Pests and diseases

Lack of alternate solutions for diseases and pest problems Increased incidence of pests and diseases Poor pest management

Water supply Limited water supply

Resources

Lack of funds or financial resources Inadequate human resources Lack of personnel No plan or Strategic Action Plan to give direction

Media Lack of awareness program on agriculture

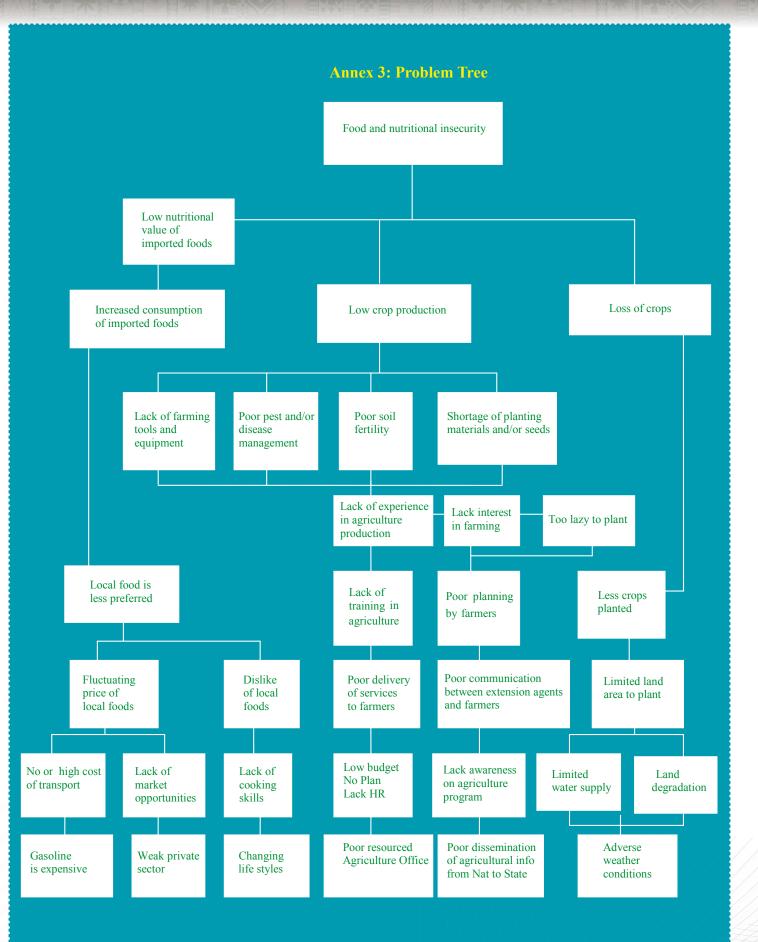
Land Land degradation

Climate Adverse weather effects

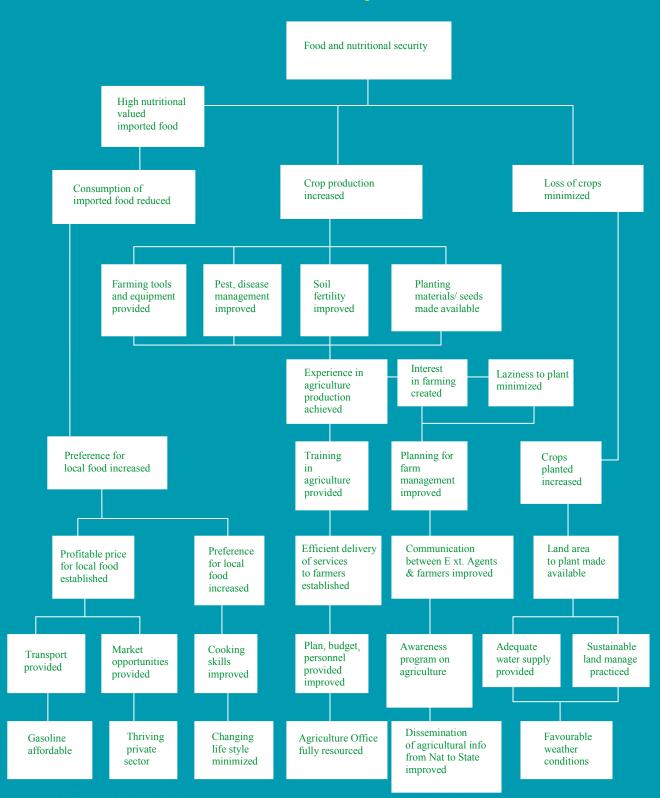
Transport High cost of transportation

Annex 2: Strengths, Weakn	esses, Opportunities and Threats Analysis		
Internal Strengths and Weaknesses			
Strengths	Weaknesses		
1. Land	1. More funding for personnel than programs/projects		
2. Capacity	2. Disconnect when transferring to farmers		
3. Embassies/Regional Offices/COM - FSM	3. More resources required 4. Machines to make work faster		
Strengths Weaknesses 1. Land 1. More funding for personnel than programs/projects 2. Capacity 2. Disconnect when transferring to farmers 3. Embassies/Regional Offices/COM - FSM 4. Priority sector 3. More resources required 5. Tradition 6. Capacity building 6. Capacity building 7. Not enough to do what we want 7. Proximity to export markets 8. Niche products 8. Niche products 9. Need to improve collaboration between service providers "coordinated collaboration" 10. Image-cultural practices 11. Lack of specialist (dedicated individuals) to market findings that would benefit agriculture 12. Aging staff External Opportunities and Threats* 0. Protrumities 1. Fuel crisis 2. International support (e.g. Peace Corps, Canadian volunteers, JOCV, CBD, UNI-CEF) 3. JEMCO 3. Regional organizations (TNC, SPREP, SPC, USC, UGA, Australian training institutions 5. Partners (NGOS, TNC, COM Land Grant, CES Land Grant PFA, CSI, SPC 5. Partners (NGOS, TNC, COM Land Grant, CES, Land Grant PFA, CSI, SPC 9. Imported products 6. Agriculture training institutions (long and short term training) 10. Invasive species (pest and diseases) 7. Community 8. Expert consultations			
7. Proximity to export markets	7. Need to work on improving the "image" of agriculture8. Less kids want to go into agriculture today		
Internal Strengths and WeaknessesStrengthsWeaknesses1. Land1. More funding for per2. Capacity2. Disconnect when trar3. Embassies/Regional Offices/COM - FSM3. More resources requit4. Priority sector3. More resources requit5. Tradition6. Not good communica6. Capacity building7. Need to work on imp7. Proximity to export markets8. Less kids want to go i8. Niche products9. Need to improve colle ers "coordinated collabor10. Image-cultural pract11. Lack of specialist (defindings that would ber 12. Aging staffExternal Opportunities and Threats*7. Irreats0pportunities1. Funding (SARE, FAO, USDA, JEMCO, Embassies, other competitive grants)2. International support (e.g. Peace Corps, Canadian volunteers, JOCV, CBD, UNI- CEF)1. Fuel crisis3. Regional organizations (TNC, SPREP, 			
	11. Lack of specialist (dedicated individuals) to market		
	12. Aging staff		
External Opportunities and Threats*			
Opportunities	Threats		
9. Need to improve collaboration between service providers "coordinated collaboration"10. Image-cultural practices11. Lack of specialist (dedicated individuals) to market findings that would benefit agriculture12. Aging staffExternal Opportunities and Threats*Opportunities1. Funding (SARE, FAO, USDA, JEMCO, Embassies, other competitive grants)2. International support (e.g. Peace Corps, Canadian volunteers, JOCV, CBD, UNI- CEF)3. Regional organizations (TNC, SPREP, SPC, USP, UOG, Australian training insti- tutions4. Weak Private Sector5. High cost of transportation(freight) 6. Out-migration			
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Grant, CES Land Grant PFA, CSP, SPC	IWeaknesses Weaknesses I. More funding for personnel than programs/projects 2. Disconnect when transferring to farmers Offices/COM 3. More resources required 4. Machines to make work faster 5. Not enough to do what we want 6. Not good communication; lack of direction; no plan 7. Need to work on improving the "image" of agriculture 8. Less kids want to go into agriculture today 9. Need to improve collaboration between service providers "coordinated collaboration" 10. Image-cultural practices 11. Lack of specialist (dedicated individuals) to market findings that would benefit agriculture s and Threats* D, USDA, JEMCO, JOCV, CBD, UNI- 1. Fuel crisis 2. Climate change 3. JEMCO 4. Weak Private Sector Dons (TNC, SPREP, tralian training insti- 7. High cost of transportation(freight) 6. Out-migration 7. High cost of communication 8. Emigration 9. Imported products 9. Impor		
	10. Invasive species (pest and diseases)		
7. Community			
8. Expert consultations			
9. Micronesian Challenge			
10. Research; students and scientists			
11. Agriculture exchange programs			

* For definitions of the following agencies and organizations, see the list of abbreviations at the front of this report.



Annex 4: Objective Tree



Agriculture Strategic Action Plan 2011 - 2015 Pohnpei State, Federated States of Micronesia

	Intervention Logic	Objectively Verifiable Indicators	Sources (Means) of Verification	Assumptions and Risks
Overall Objective (Goal)	To ensure food security and a healthy livelihood for Pohnpeian families	By 2015 at least 40% of Pohnpeian families have improved health livelihood	Department of Health Report (non- communicable diseases)	
Project Purpose	To improve food and nutritional security and health status of Pohnpeian families	By 2015 at least 40% of Pohnpeian families are eating nutritious food	Dept. of Health report Agriculture Office report	Socio-economic status of Pohnpei remains unchanged
Results (Outputs)	1.0 Agriculture Office fully resourced	By 2015 at least \$300,000 is secured annually by successful project proposals	AOEA annual report Budget report	Donors available in Pohnpei
	2.0 Sustainable crop and livestock production increased	At least a 50% increase in crop area and production by 2015. At least a 40% of farmers adopted recommended sustainable crop and livestock management practices. At least a 50% increase in livestock numbers and production by 2015.	AOEA annual report Livestock and crop census Farmers' records	Farmers agricultural production problems and opportunities remain unchanged
	3.0 Increased market opportunities provided	At least 5 high-value commodities exported by 2015 At least a 40% increase of commodities supplied to the domestic markets by 2015	AOEA annual report Trade report Statistics report	Private sector remains viable
	4.0 Improved awareness program on agriculture	At least 26 news article published in the Kaselehlie Press annually by 2015. At least 52 radio agricultural programs broadcasted annually by 2015. At least monthly agricultural TV programs shown on local TV annually by 2015.	Kaselehlie Press Radio programs Local TV programs	Media supports agricultural initiatives

Annex 5: Logical Framework

	-			
Activities	Inputs	Costs	Time Frame	Responsibility [*]
Result 1.0	Agriculture Office fully res		•	
1.1Identify available funding sources	Contractual services of	2,500	September	AOEA COM FSM CRE AES, FSM
and submit proposals	proposal writer		2010	R&D, IFCP, PFA, SPC, DLNR
1.2Evaluate current activities, identify	Personnel	500	June 2010	AOEA COM FSM CRE AES, FSM
and develop prioritized activities and	Meetings			R&D, IFCP, PFA, SPC, DLNR
work plan	Refreshments			
1.2 Strengthen existing callebantions	Materials and supplies Personnel	3,000	Onesine	
1.3 Strengthen existing collaborations with partners	Networking	3,000	Ongoing	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC , EPA, NRCS,
with partners	Volunteer (JOCV, Peace			DL&NR
	Corps)			DECIN
	Materials			
1.4 Identify and secure new additional	Personnel	5,000	Ongoing	AOEA, COM FSM CRE AES, FSM RD,
collaborative efforts	Networking	- ,	- 0- 0	IFCP, PFA, SPC, EPA, NRCS, DLNR
	Materials			
	Partners			
1.5 Establish a Pohnpei State	Personnel	500	June 2010	AOEA, COM FSM CRE AES, FSM
Agricultural Council	Meetings			R&D, IFCP, PFA, SPC, EPA, NRCS,
	Refreshments			DLNR
	Materials and supplies	5.000		
1.6 Train staff in technical skills through	Trainers/facilitators	5,000	Quarterly	AOEA, COM FSM CRE AES, FSM
workshops and on-farm demonstrations	Personnel Venue/farms			R&D, IFCP, PFA, SPC, EPA, NRCS, DLNR
	Resource materials			DLINK
	Refreshments			
Result 2.0	Sustainable crop and livest	ock produ	ction increase	d
2.1 Conduct research and production	Chinese technicians	20,000	Ongoing	AOEA, Pilot Farm, COM FSM CRE
field trials for selected vegetables	Pilot farm	, í	00	AES, FSM R&D, IFCP, PFA, SPC,
	Seeds			EPA, NRCS, DLNR
	Fertilizer			
	Pesticides	10.000		
2.2 Establish, maintain, distribute and	Chinese technicians	10,000	Ongoing	AOEA, Pilot Farm, COM FSM CRE
document collection of staple food crops (breadfruit, yam, bananas, taro, etc.)	Pilot farm			AES, FSM R&D, IFCP, PFA, SPC,
(breadiruit, yam, bananas, taro, etc.)	Seeds/ planting materials Personnel			EPA, NRCS, DLNR
	Chinese technicians	50,000	Ongoing	AOEA, Pilot Farm, COM FSM CRE
2.3 Establish on-farm demonstrations of	Pilot farm	50,000	ongoing	AES, FSM R&D, IFCP, PFA, SPC,
recommended crop husbandry practices	Seeds/ planting materials			EPA, NRCS, DLNR
······································	Personnel			,
2.4 Facilitate the establishment of	Personnel	10,000	Ongoing	AOEA, COM FSM CRE AES, FSM
nurseries or gene banks in selected	Seeds/ planting materials			R&D, IFCP, PFA, SPC, EPA, NRCS,
farming communities	Transportation			DLNR
2.5 Conduct trainings on control of pests	Personnel	20,000	Ongoing	AOEA, COM FSM CRE AES, FSM
and diseases and integrated pest	Training materials			R&D, IFCP, PFA, SPC, EPA, NRCS,
management 2.6 Facilitate trainings on traditional	Farmers	25,000	Ongoing	DL&NR, PIST AOEA, COM FSM CRE AES, FSM
agro-forestry agricultural farming	Personnel Training materials	23,000	Ongoing	R&D, IFCP, PFA, SPC, EPA, NRCS,
systems	Farmers			DLNR
2.7 Introduce and distribute improved	Personnel	50,000	Ongoing	AOEA, COM FSM CRE AES, FSM
breeds	Training materials	00,000	ongoing	R&D, PFA, SPC
	Farmers			
2.8 Facilitate trainings on livestock	Personnel	15,000	Ongoing	AOEA, COM FSM CRE AES, FSM
waste management	Training materials			R&D, PFA, SPC, EPA, NRCS, DLNR
	Farmers	10.000		
2.9 Conduct research on local feed	Chinese technicians	10,000	Ongoing	AOEA, COM FSM CRE AES, FSM
supplements	Pilot farm			R&D, PFA, SPC
	Local feeds Personnel			
2.10 Provide sales of farm inputs to	Personnel	100,000	Ongoing	AOEA, COM FSM CRE AES, FSM
farmers	Seeds/ planting materials	100,000	Ongoing	R&D, PFA
	Fertilizer			1000,1111

Result 3.0	Increased market oppo	-		
3.1 Conduct farmers'	Personnel	20,000	August 2010	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
survey on farming	Farmers			NRCS
practices used, crops	Transport			
grown, produced and harvested	Survey materials			
3.2 Conduct market	Personnel	20,000	January 2011	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
survey for export and	Market vendors	20,000	January 2011	NRCS, PSBDC, CSP
domestic commodities	Survey materials			NNCS, I SDDC, CSI
3.3 Identify 5 high value	Personnel	10,000	February	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
crops or commodities	Commercial farmers		2011	NRCS, PSBDC, CSP
for export market	Market vendors			
3.4 Facilitate trainings	Personnel	10,000	Ongoing	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
on farm management	Training materials			NRCS, PSBDC, CSP
and post harvest	Farmers			
handling	Market vendors			
3.5 Facilitate the	Personnel	10,000	November	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
establishment of the	Commercial farmers		2010	NRCS, PSBDC, CSP
supply chain from farms	Market vendors			
to markets Result 4.0	Improved awareness p			
Result 4.0	Improved awareness provide a second s	10,000	n agriculture Ongoing	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
4.1 Develop awareness	Awareness	10,000	Ungoing	NRCS, PSBDC, CSP
programs for young	Materials/programs			NRCS, PSDDC, CSP
people to pursue	Youth organizations			
careers in agriculture	Touthorganizations			
	Personnel	10,000	Ongoing	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
4.2 Create awareness	Awareness		Silge S	NRCS, PSBDC, CSP
on agricultural	Materials/programs			11103,13523, 55.
recommendations via	Media (Kaselehlie			
radio broadcasts and	Press, Radio			
newspapers, TV	broadcasts, local TV)			
	Personnel	10,000	Ongoing	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
	Awareness			NRCS, PSBDC, CSP
4.3 Translation of	Materials/programs			
awareness materials	Media (Kaselehlie			
into Pohnpeian	Press, Radio			
language	broadcasts, local TV)			
	Personnel	10,000	Ongoing	AOEA, COM FSM CRE AES, FSM R&D, IFCP, PFA, SPC, USDA
4.4 Create awareness	Awareness Materials (programs			NRCS, PSBDC, CSP
on PFA and CHEEF	Materials/programs			
benefits to communities and schools	Media (Kaselehlie Press, Radio			
and schools	broadcasts, local TV)			
Result 5.0		perly mg	pitored and ev	valuated at State level
5.1 Produce monthly	Personnel	5,000	Ongoing	AOEA/COM FSM CRE
updates of activities to	Materials/ supplies	5,000	0	Notify common and
Pohnpei State	Equipment			
Agricultural Council				
5.2 Provide quarterly	Personnel	5,000	Ongoing	AOEA/COM FSM CRE
progress and financial	Materials/ supplies			
5.3 Conduct quarterly	Personnel	3,000	Ongoing	AOEA/COM FSM CRE
meetings of the	Materials/ supplies			
Pohnpei State	Equipment			
Agricultural Council				
5.4 Conduct	Personnel	3,000	Ongoing	AOEA/COM FSM CRE
participatory	Materials/ supplies			
monitoring and	Equipment			
evaluation of on-farm				
demonstrations with				
farmers 5.5 Provide six monthly	Personnel	5,000	Ongoing	AOEA/COM FSM CRE
progress and financial	Materials/ supplies	5,000	Ongoing	
reports	Equipment			
5.6 Provide annual	Personnel	10,000	Ongoing	AOEA/COM FSM CRE
reports on progress of	Materials/ supplies	10,000	Chigoling	AOLA COM I SIN CIL
activities, success	Equipment			
stories, lessons learned	Ldoub			
and recommended way				
forward				
* E 4-6		a see the li	at of abbraviations	at the front of this report

* For definitions of the following agencies and organizations, see the list of abbreviations at the front of this report.

Annex 6: Annual Workplan

AOFA ANNIJAL WORKPLAN

	AOEA ANNUAL WORKPL	AN					24	110					
Results	Activities	01	iarte	or 1	Ou	arte	20 er 2)10 01	iarte	or 3	Ou	arte	
Output 1	Agriculture Office fully resourced	Q.			Qu						Qu	ai ce	
1.1	Identify available funding sources and submit proposals												
1.2	Evaluate current activities, identify and develop prioritized activities and work plan												
1.3	Strengthen existing collaborations with partners												
1.4	Identify and secure new additional collaborative efforts												
1.5	Establish a Pohnpei State Agricultural Council												
1.6	Train staff in technical skills through workshops and on-farm demonstrations												
Output 2	Sustainable crop and livestock production increased												
2.1	Conduct research and production field trials for selected veg- etables												
2.2	Establish, maintain, distribute and document collection of staple food crops (e.g. breadfruit, yam, bananas, taro)												
2.3	Establish on-farm demonstrations of recommended crop hus- bandry practices												
2.4	Facilitate the establishment of nurseries or gene banks in selected farming communities												
2.5	Conduct trainings on control of pests and diseases and inte- grated pest management												
2.6	Facilitate trainings on traditional agroforestry farming systems												
2.7	Introduce and distribute improved breeds												
2.8	Facilitate trainings on livestock waste management												
2.9	Conduct research on local feed supplements												
Output 3	Increased market opportunities provided												
3.1	Conduct farmers' survey on farming practices used, crops grown, produced and harvested												
3.2	Conduct market survey for export and domestic commodities												
3.3	Identify five high-value crops or commodities for export market												
3.4	Facilitate trainings on farm management and post harvest handling												
3.5	Facilitate the establishment of the supply chain from farms to markets												
Output 4	Improved awareness program on agriculture												
4.1	Develop awareness programs for young people to pursue careers in agriculture												
4.2	Create awareness on agricultural recommendations via radio broadcasts and newspapers, TV												
4.2	Develop farmers' posters and brochures on recommended agricultural practices												
4.3	Translation of awareness materials into Pohnpeian language												
4.4	Create awareness of PFA and cultural, health, economic, environmental and food security benefits to communities and schools												

Output 5	AOEA activities properly monitored and evaluated at State level						
5.1	Produce monthly updates of activities to Pohnpei State Agri- cultural Council						
5.2	Provide quarterly progress and financial reports						
5.3	Conduct quarterly meetings of the Pohnpei State Agricultural Council						
5.4	Conduct participatory monitoring and evaluation of on-farm demonstrations with farmers						
5.5	Provide six monthly progress and financial reports						
5.6	Provide annual reports on progress of activities, success sto- ries, lessons learned and recommended way forward						

