

Collaboration Grantsmanship Workshop

# Pacific Islands Piggery Waste Management Program



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**Northern Marianas  
College**



# Coordination Across a Vast Region




**Western Pacific Water Quality Programs**  
— Research, Education & Extension —

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**Pigs have great cultural importance in the Islands**



# ANIMAL WASTE PROBLEMS



Pohnpei, FSM





**Island Piggery**



**Effluent Drainage to Field**

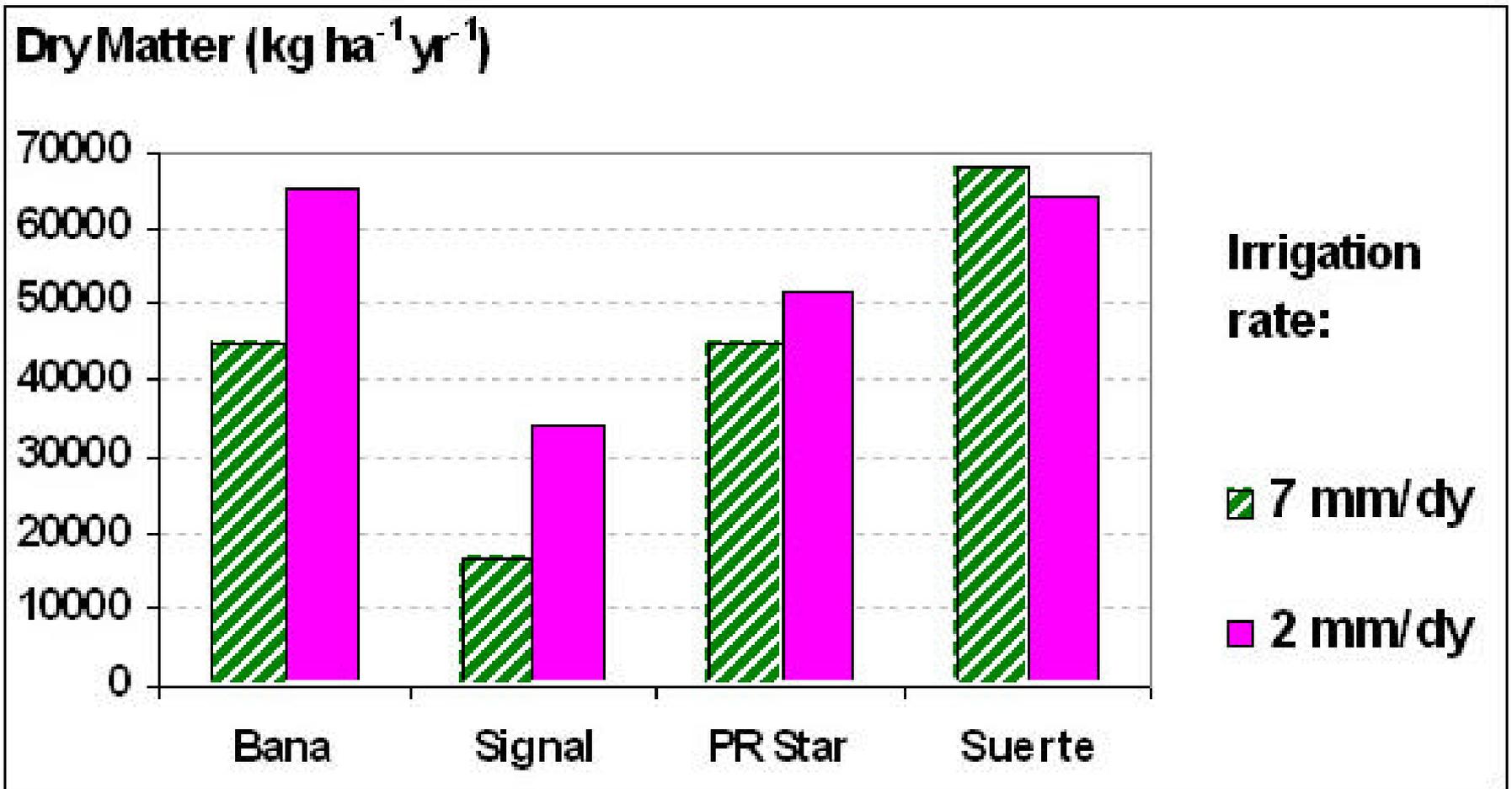
# Livestock Manure Management

Management of livestock manures and effluent is a serious concern for the the Pacific Islands. Regional efforts have focused on:

- (1)** safe application rates of livestock waste,
- (2)** understanding interactions of nutrients with tropical soils, and
- (3)** adoption of nutrient management plans.

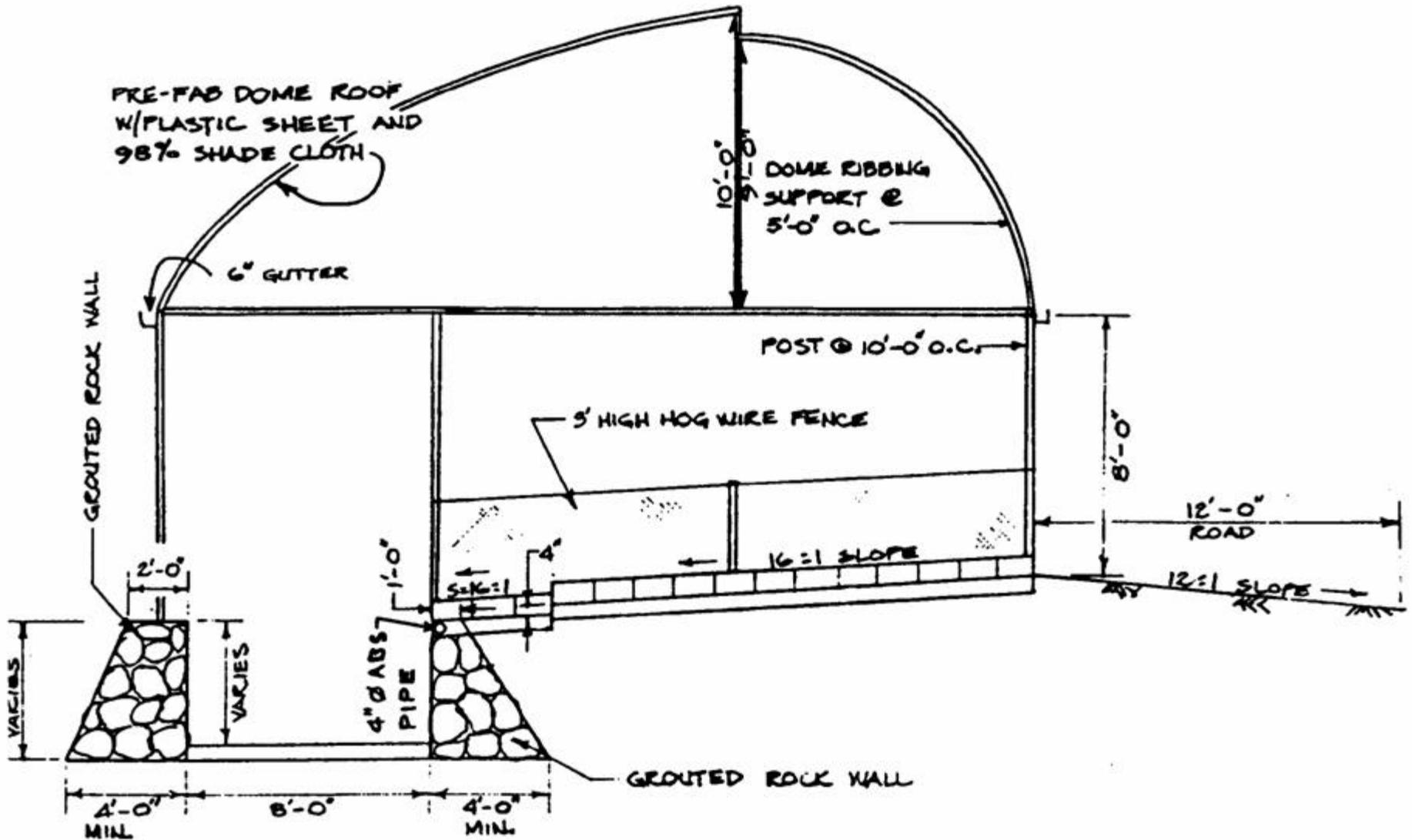






**Yield of Forage Grasses at Waianae, Oahu**

# Modified Dry Litter System









**Macaranas Piggery, Tinian, CNMI**



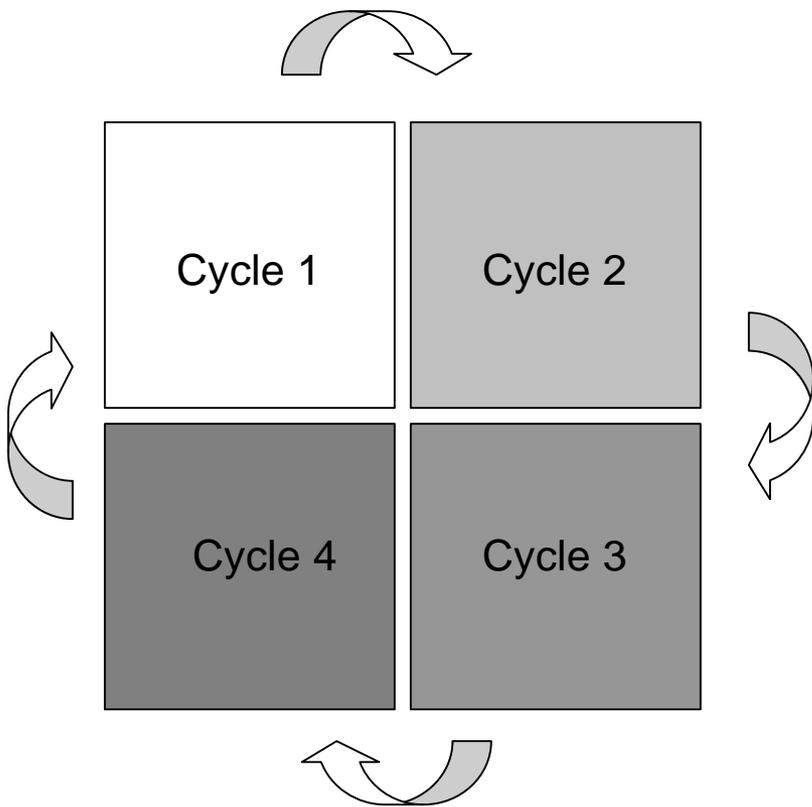


**Oiph Farm, Palau – Dry Litter Demo Site 2006**

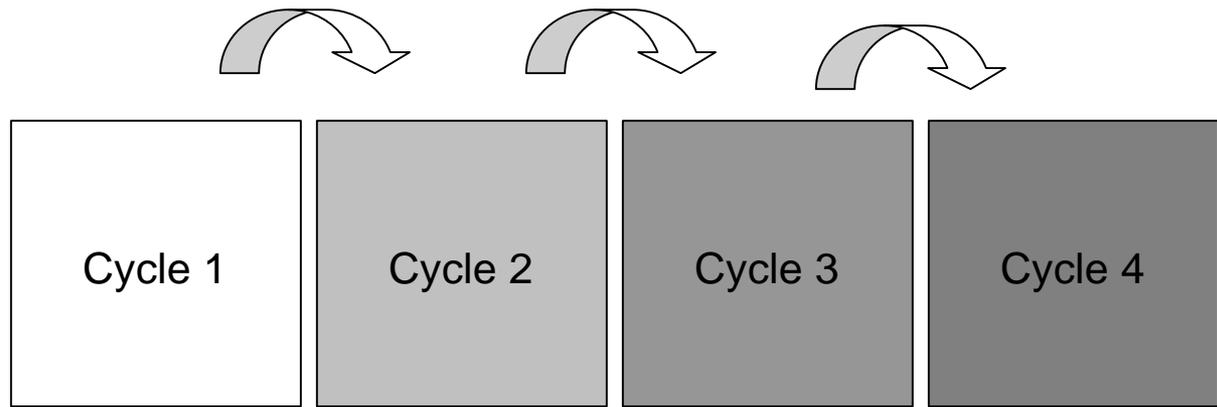
# Portable Dry Litter Pen



This system uses movable pens, eliminates discharges into waterways and integrates composting.



Two examples of four cycles of Portable Dry Litter Pen rotation



← Return to first site →

# Composting in American Samoa





A series of workshops were conducted in July-August 2004 in Guam and CNMI (Saipan, Tinian & Rota) to extend this information to farmers and agencies in the Western Pacific.



An invited working session was held at the EPA Pacific Islands Conference in June 2005 on Guam. Composting and dry litter systems are now being implemented throughout the American Pacific.



At this workshop we were invited by AS EPA to consult about piggery management practices in American Samoa in November 2005.

## Portable Pen, American Samoa



# Promoting Collaboration

- **Build relationships**  
(face-to-face meetings and subsequent communication)
- **Find common ground**  
(problems / issues that we share)
- **Share resources**  
(money, information, time)
- **Work for mutual benefits**  
(utilize competitive advantages)

**Kalangan**

**Fa'afetai**

**Alii**

**MAHALO**

**Komoltata**

**Ke kmal mesulang**

**Dunkalu Na Si Yuus Maase**