



Community estates and log supply

- A regular coconut log supply for wood processing can result from communities deciding to *renew* their coconut plantations, and sell logs.
- To make informed decisions, communities need to develop and adopt an *estate coconut renewal plan*.
 - Once agreed, it can then be implemented.





Guide structure



Section 1: Developing an estate plan for coconuts.

Section 2: Resource information.

Section 3: Worksheets and checklists.





Period	Est. change in nut production		Portion of palms harvested			
	50 year replacement	25 year replacement	50 year replacement	25 year replacement		
Current est. production	1.00	1.00				
After initial harvest	0.97	0.95	9%	16%		
After harvest: Year 5	0.95	0.92	9%	15%		
After harvest: Year 10	0.94	0.96	9%	15%		
After harvest: Year 15	1.05	1.13	9%	15%		
After harvest: Year 20	1.22	1.50	9%	15%		
After harvest: Year 25	1.52	2.01	9%	3%		
After harvest: Year 30	1.78	2.55	9%	3%		
After harvest: Year 35	2.02	2.99	9%	3%		
After harvest: Year 40	2.16	3.16	9%	3%		
After harvest: Year 45	2.30	3.05	3%	3%		
After harvest: Year 50	2.38	2.76	3%	3%		
After harvest: Year 55	2.45	2.37	3%	3%		
After harvest: Year 60	2.46	1.96	3%	3%		

Section 1: Develop a coconuts estate plan





Step 3: Assessing coconut production

- The condition of estate coconut palms needs to be assessed for age and current productivity. This is to identify:
 - The number of healthy and unproductive palms.
 - Their distribution.
 - Current nut productivity.
 - Areas of pest or disease.
- Those who live near the stand may know:
 - When the stand was planted (its age).
 - The total nuts collected (its productivity)



Step 3: Assessing coconut production

Palms can be assessed as either.

- A *productive palm*: a growing or mature palm, producing more than 20 coconuts every year.
- An *aging palm*: a mature palm, producing between 5 and 20 coconuts every year.
- A senile palm: a very mature palm producing 5 coconut or less every year.
- A *fallen palm* is a damaged, broken or completely missing palm.





Step 3: Asses	ssing coconut production		
The assessments can be s information needed to de productive palms in stand	ummarised and provide the fine the profile of low s and the estate.		
Palm type	% Palms in the estate		
Dereentage conile nalme	Divide the number of senile palms in Table 1 by th		
Percentage senile paints	total number of palms then multiply by 100.		
Percentage aging palms	total number of palms then multiply by 100. Divide the number of aging palms in Table 1 by the total number of palms, then multiply by 100.		
Percentage aging palms Total % low productive palms standing	total number of palms then multiply by 100. Divide the number of aging palms in Table 1 by the total number of palms, then multiply by 100. Add the percentage of senile, and aging palms together.		
Percentage senile pains Percentage aging palms Total % low productive palms standing Percentage fallen palms	total number of palms then multiply by 100. Divide the number of aging palms in Table 1 by the total number of palms, then multiply by 100. Add the percentage of senile, and aging palms together. Divide the number of fallen palms in Table 1 by the total number of palms, then multiply by 100.		





Impact example



An estate, 1500 stems, 60% senile, producing 20,000 nuts a year, senile replacement in 25 years with partial harvest every 5 years.

What will happened to nut and log production at 20 and 40 years.

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	50 year replacement	25 year replacement	50 year replacement	25 year replacement
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After initial harvest	0.97	0.95	9%	16%
After harvest: Year 5	0.95	0.92	9%	15%
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Impact exampleImpact exampl



Step 5: Establish community priorities

Community priorities for their coconut plantations needs to be established and accommodated in an agreed renewal plan.

- Inform the discussion with estimates of nut and log production.
- Agree on the key points.
- Appoint those responsible for action.
- Recording the decisions.

Step 6: Planning the harvest

• With decision, a draft harvesting and renewal schedule can be developed and implemented.







