



Introduction

- Fully funded by USAIDS Food Security Programme
- Technical support from SPC – SOPAC
- Provide statistically sound information – coconut inventory
- Island covered by this project – Christmas Island, Abaiang Island and North & South Tarawa



Benefits

- Understanding of current status – coconut resource
- Calibrate general coconut production figures
- Findings have to be discussed and documented to plan further activities

Inventory methods:

- Sample plot distribution
 - Selection of plot randomly
 - Plot size - approximately 40 m x 40 m
 - At least 15 plots but more is recommended
- Field measurements
 - GPS mapping (high accuracy GPS)
 - Records the corner coordinates from every plot (future reference)
 - Palm height measurements (clinometers)
 - Required to estimate the age of each palm
 - Diameter measurement (diameter tape)
 - Timber volume
 - Fertility judgment (binocular)

Cont'd

- Databank handling
 - Input of field measurements
 - Calculation of palm parameters (age, height, fertility, & diseases)
 - Calculation of parameters (hectare basis)

Results

Abaiang Island Coconut summary

| Class | Area (Ha) | Palms per Hactare | # of Palms |
|----------------------|-----------|-------------------|------------|
| Dense Coconut | 409 | 237 | 96933 |
| Medium dense Coconut | 215 | 131 | 28165 |
| Scattered Coconut | 430 | 67 | 28810 |
| | 1054 | 435 | 153908 |

Results

ABAIANG ISLAND




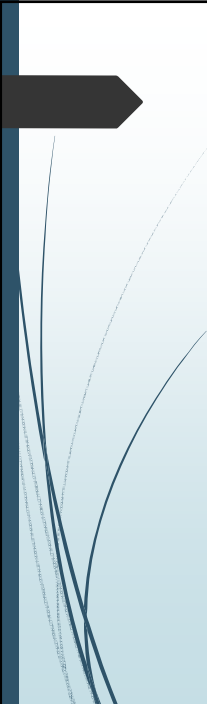
Plot Information per Hectare

| Plot # | Palms/ha | Height | DBH | Basa Area(m2) | Age | Insect % | Hybrids % | Volume(m3)/ha | Production |
|--------|----------|--------|------|---------------|-----|----------|-----------|---------------|------------|
| 01 | 206 | 9.7 | 30 | 14.83 | 27 | 0 | 0 | 104.12 | 7600 |
| 02 | 69 | 6.6 | 28.8 | 4.56 | 16 | 0 | 0 | 22.19 | 2350 |
| 03 | 112 | 9.1 | 33.7 | 10.19 | 24 | 0 | 0 | 65.94 | 7225 |
| 04 | 238 | 14.3 | 33 | 20.54 | 30 | 0 | 0 | 206.84 | 12775 |
| 05 | 112 | 10.7 | 32.5 | 9.62 | 27 | 0 | 0 | 78.11 | 12900 |
| 06 | 56 | 15.1 | 34.7 | 5.49 | 33 | 0 | 0 | 60.71 | 3325 |
| 07 | 181 | 11.7 | 31.2 | 14.01 | 32 | 0 | 0 | 119.32 | 7750 |
| 08 | 200 | 12 | 29.8 | 14.21 | 24 | 0 | 0 | 122.04 | 10350 |
| 09 | 81 | 8.9 | 31.3 | 6.43 | 25 | 0 | 0 | 42.41 | 5575 |
| 10 | 62 | 9.4 | 38.2 | 7.31 | 16 | 0 | 0 | 50.74 | 3675 |
| 11 | 31 | 12.2 | 30.4 | 2.29 | 31 | 0 | 0 | 19.5 | 1275 |
| 12 | 125 | 10.2 | 33.8 | 11.34 | 23 | 0 | 0 | 81.96 | 6675 |
| 13 | 100 | 9.8 | 31.6 | 7.98 | 20 | 0 | 0 | 57.04 | 9425 |
| 14 | 56 | 8.4 | 37.4 | 6.23 | 18 | 0 | 0 | 36.74 | 3325 |
| 15 | 31 | 15.9 | 32.4 | 2.62 | 28 | 0 | 0 | 31.39 | 1475 |



Acknowledge

- USAIDS Food Security Programme
- Technical supports from SPC - SOPAC



THANKS