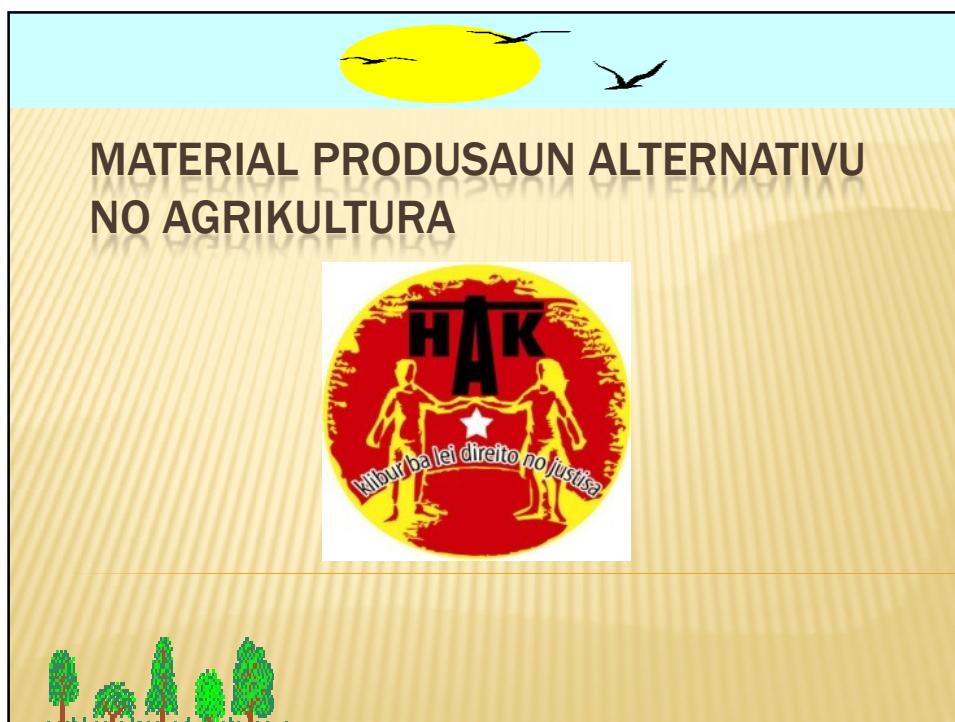




RAI LUAN BA PRODUSAUN IHA TIMOR

Tuir GeofMafrey C. Gunn iha ninia livru tinan 500 Timor Loro Sa'e, pazina 65, ne'ebé publika husi Sahe Intitut no Nagasaky University haktuir katak, materiál produsaun ne'ebé mak uza hodi halo produsaun mak ai-lolon. Materiál ne'e mak jerálmente uza iha seitór agrikultura antes Portuques tama mai.



KONTINUA.....

- ✘ Depois iha faze modernu, maioria ema Timor involve iha vida agrikultura subsisténsi (hakonu ai-han ba uma laran). Ida ne'e akontese iha tipu halo to'os muda ba mai ho sistéma lere no sunu ba kuda ai-han hirak hanesan batar, fehuk midas, ai-fariña, hare no fore sira iha kintál ne'ebé besik iha uma hun.

AREIAL KULTIVASAUN (GEOFFREY C. GUNN)

- ✘ Totál área 13. 300 km², se ita halo distribuisaun ba 1.114.000 habitantes (data ministériu agrikultura), ema ida merese hetan rai nia luan 0.012 km². Signifika katak, ema balu sei hetan rai parte husi foho tutun, rai maran no krekas, balu sei hetan fatuk laran no balu fali sei hetan rai ne'ebé ninia kondisaun bokur liu no tetuk liu.
- ✘ Husi rai nia luan iha leten, fahe ba área tetuk no di'ak ba natar mak ho luan: 80.000 ha, área ba to'os: 120.000 ha, total área ne'ebé produtivu: 90.000 ha, luan áreal ai-laran: 1.000.000 ha, rai luan: 220.000 ha, área protejidu: 123.000 ha.

DADUS HUSI MAP, TOTAL AREIA BA KULTIVASAUN

80.000 ha áreia natar no
215.000 ha ba to'os rai maran
(batar no aifarina)

DADUS SENSUS POPULASAUN

- ✖ Total Uma kain (famillia) iha TL hamutuk 184,652 ne'ebe involve iha kultivasaun Ai-han
- ✖ Tuir dadus husi MAPF, total uma kain ne'ebe involve iha natal 45,673 uma kain no kultiva batar iha 102,347 uma kain

ALTERNATIVU HILI TEKNOLOJIA

- ✕ Trator, bele halais servisu
- ✕ Hakma'an servisu
- ✕ Ema ida deit bele halo servisu

TOTAL TRATOR NE'EBE MAF SOSA NO HALO DISTRIBUISAUN ONA

- ✕ Total trator liman 3000 unidades
distribui hotu
- ✕ Trator bo'ot 700

TRATOR



KONTINUA.....



KONTINUA.....



KOMPONENTI IMPORTANTE TRATOR NIAN NE'EBE BELE HAREE

1. Roda Oin (Kamardial no Peneiu)
2. Roda Kotuk (Kamardial no Pineiu)
3. Taxu fila rai
4. Material ba garade nian
5. Filtru
6. Rolamentus
7. Bomba Be

PRESU KADA PESAS

1. Roda li'ur ba roda oin, ninia folin \$ 500
2. Roda laran ba roda oin, ninia folin \$ 100
3. Roda li'ur ba roda kotuk, ninia folin \$ 1000 (dura to'o tinan 10)
4. Roda laran ba roda kotuk, ninia folin \$ 200
5. Filtru mina nian ninia folin iha oi-oin (\$ 20, \$ 30 no \$ 15)
6. Taxu fila rai ba trator bo'ot iha taxu 4, kada taxu ninia folin \$ 3000 (dura to'o tinan 3)
7. Kada Rolamentus ninia folin \$ 80 Rolamentu ba trator ki'ik ninia folin \$ 40 no \$ 50
8. Bomba be ninia folin \$ 300

KUSTU NE'EBE TENKI PERSIJA BA OPERASAUN TRATOR:

- ✕ Ensi mina
- ✕ Ensi Oliu
- ✕ Persija halo manutensaun (Kamardiar no pineiu, Filtru be, Taxu fila rai, rolamentus, grade rai nss)
- ✕ Salariu ba tratorista
- ✕ Persija mekaniku
- ✕ Salariu ba mekaniku

KONTINIA.....

- ✗ Oliu fakar estraga rai
- ✗ Taxu fila rai no rai bokur tun ba rai okos (minimu fila rai ninia kle'an ba krik 50 cm)
- ✗ Halo poluisaun ba planeta hodi afeita mai mudansa klimatika
- ✗ Wainhira trator at, ita nia to'os no natar labele halo
- ✗ Halo ema sai Dependensia
- ✗ Kada Distritu ida hetan mina tonelada 5 (litru 5000 x \$ 1,29 x 13 Distritu = \$ 83, 850)
- ✗ Kada hektares gasta mina litrus 35 x \$ 1,29 = \$ 45,15

AREIA KULTIVU, KOILLETA NO PRODUSAUN HARE IHA PREMIERA EPOKA 2013

No	Distritu	Potensia Areia (Ha)	Areia Kultivu (Ha)	Areia Koilleta (Ha)	Produtivida de (ton/ha)	Total Produsaun (ton)
1	Aileu	776	513.00	513.00	1.20	615.60
2	Ainaro	6,076	256.00	256.00	4.90	1,254.40
3	Baucau	14,423	9,848.00	9,848.00	1.80	17,763.82
4	Bobonaro	7,662	3,045.00	3,045.00	3.50	10,657.50
5	Covalima	5,615	2,211.00	2,211.00	3.00	6,633.00
6	Dili	150	80.00	80.00	3.00	240.00
7	Ermera	2,419	1,744	1,744.00	3.00	5,232.00
8	Lautem	3,864	56.00	56.00	3.00	168.00
9	Liquisa	1,866	382.50	382.50	2.48	946.75
10	Manatutu	12,731	1,279.00	1,279.00	3.00	3,837.00
11	Manufahi	9,942	0.00	0.00		0.00
12	Oecusse	5,705	1,915.00	1,915.00	2.00	3,830.00
13	Viqueque	9,793	3,400.70	3,289.85	3.45	11,349.98
Total		81,022	24,730.20	24,619.3	2.54	62,528

AREIA KULTIVU, KOILLETA BATAR IHA PREMIERA EPOKA 2013

No	Distritu	Areia Potensia (Ha)	Areia Kultivu (Ha)	Areia Koilleita (Ha)	Areia Produtivida de (ton/ha)	Total Produsaun (ton)
1	Aileu	13,000.00	1,282.00	1,282.00	2.13	2,730
2	Ainaro	9,000.00	794.00	794.00	3.60	2,858
3	Baucau	16,000.00	2,315.30	2,315.30	2.25	5,209
4	Bobonaro	25,477.00	1,795.00	1,795.00	1.50	2,692
5	Covalima	56,113.00	4,891.00	4,434.00	2.00	8,868
6	Dili	3,200.00	1,520.00	1,520.00	2.00	3,040
7	Ermera	6,126.00	4,056.50	4,056.50	1.50	6,084
8	Lautem	20,000.00	7,932.00	7,932.00	2.00	15,864
9	Liquica	5,000.00	2,497.00	2,497.00	2.16	5,396
10	Manatutu	19,896.00	905.00	905.00	1.50	1,357
11	Manufahi	10,000.00	1,203.00	1,203.00	1.50	1,805
12	Oecusi	19,435.00	8,495.05	8,495.05	1.50	12,742
13	Viqueque	12,500.00	1,676.00	1,676.00	1.57	2,631
Total		215,747.00	39,361.85	38,904.85	1.83	71,276

DADUS KONSUMU NASIONAL

- ✘ Tuir dadus husi Ministériu Agrikultura iha tinan 2002, totál fos ne'ebé mak ita konsumu **90.000 toneladas** kada tinan. Husi totál ne'e, kbi'it to'os na'in nian hodi halo produsaun iha deit **30.000 toneladas**, signifika katak **60.000 toneladas** ita tenki importa.
- ✘ Dadus 2013, Produsaun Hare kulit total **62,528 toneladas** no **27,472 toneladas**

MATERIÁL ALTERNATÍVU





**AI NE'EBE MAK UZA HODI FILA RAI
CPD-RDTL**



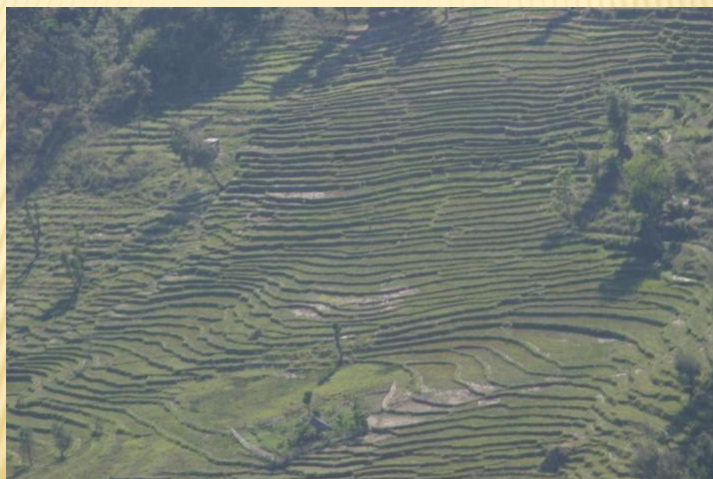
KARAU



KARAU



NATAR RAI LOLON



NATAR NE'EBE UZA MATERIAL IHA LETEN



MODELU HATAMA BE ALTERNATIVU BA NATAR



KARAU HALAI NATAR



FAHI TRATOR



REZULTADU TOMATI NE'EBE KUDA HO MODELU ALTERNATIVU



PRATIKA KULTURA ANTES BA KUDA RAI



OBRIGADO

