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**Food security among the Orang Rimba in Jambi:
transformation processes among contemporary Indonesian
hunter-gatherers**

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APPENDIX 1. Detailed breakdown of food intake records in Sako Tulang

Table 38. Composition of breakfast of two households, Sako Tulang

Type of food	Frequency		Percentage		Percentage (Average)
	HH 1 (n = 180)	HH 2 (n = 180)	HH 1	HH 2	
Carbohydrate	178	178	98.9	98.9	98.9
Animal protein	137	144	76.1	80	78.1
Fruit	0	0	0	0.0	0.0
Vegetable	3	2	1.7	1.1	1.4

Table 39. Composition of lunch of two households, Sako Tulang

Type of food	Frequency		Percentage		Percentage (Average)
	HH 1 (n = 168)	HH 2 (n = 173)	HH 1	HH 2	
Carbohydrate	166	169	98.8	97.7	98.3
Animal protein	134	132	79.8	76.3	78.1
Fruit	0	0	0.0	0.0	0.0
Vegetable	4	6	2.4	3.5	2.8

Table 40. Composition of dinner of two households, Sako Tulang

Type of food	Frequency		Percentage		Percentage (Average)
	HH 1 (n = 174)	HH 2 (n = 175)	HH 1	HH 2	
Carbohydrate	157	164	90.2	93.7	91.95
Animal protein	112	122	64.4	69.7	67.05
Fruit	0	0	0.0	0.0	0.0
Vegetable	2	1	1.1	0.6	0.85

APPENDIX 2. Detailed breakdown of food intake records in Terab

Table 41. Composition of breakfast of two households, Terab

Type of food	Frequency		Percentage		Average
	HH 1 (n = 132)	HH 2 (n = 46)	HH 1	HH 2	
Carbohydrate	93	37	70.5	80.4	75.5
Animal protein	72	19	54.5	41.3	47.9
Fruit	16	1	12.1	2.2	7.2
Vegetable	6	1	4.5	2.2	3.4

Table 42. Composition of lunch of two households, Terab

Type of food	Frequency		Percentage		Average
	HH 1 (n = 149)	HH 2 (n = 47)	HH 1	HH 2	
Carbohydrate	137	42	91.9	89.4	90.7
Animal protein	114	34	76.5	72.3	74.4
Fruit	12	5	8.1	10.6	9.3
Vegetable	0	5	0.0	10.6	5.3

Table 43. Composition of dinner of two households, Terab

Type of food	Frequency		Percentage		Average
	HH 1 (n = 180)	HH 2 (n = 60)	HH 1	HH 2	
Carbohydrate	177	59	98.3	98.3	98.3
Animal protein	126	38	70.0	63.3	66.7
Fruit	1	0	0.6	0.0	0.3
Vegetable	0	0	0.0	0.0	0.0

APPENDIX 3. Detailed breakdown of food intake records in Air Hitam

Table 44. Composition of breakfast of two households, Air Hitam

Type of food	Frequency		Percentage		Average
	HH 1 (n = 180)	HH 2 (n = 158)	HH 1	HH 2	
Carbohydrate	179	148	99.4	93.7	96.6
Animal protein	134	106	74.4	67.1	70.8
Fruit	0	0	0.0	0.0	0.0
Vegetable	10	0	5.6	0.0	2.8

Table 45. Composition of lunch of two households, Air Hitam

Type of food	Frequency		Percentage		Average
	HH 1 (n = 169)	HH 2 (n = 160)	HH 1	HH 2	
Carbohydrate	163	159	96.4	99.4	97.9
Animal protein	125	123	74.0	76.9	75.4
Fruit	0	0	0.0	0.0	0.0
Vegetable	7	7	4.1	4.4	4.3

Table 46. Composition of dinner of two households, Air Hitam

Type of food	Frequency		Percentage		Average
	HH 1 (n = 176)	HH 2 (n = 177)	HH 1	HH 2	
Carbohydrate	158	168	89.8	94.9	92.3
Animal protein	107	119	60.8	67.2	64.0
Fruit	0	0	0.0	0.0	0.0
Vegetable	3	1	1.7	0.6	1.1

APPENDIX 4. List of edible plants and animals by the Orang Rimba in three groups

Table 47. Varieties of tubers consumed by the the Orang Rimba, 2013-2016

Classification	Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Tubers	Benor	Gembili	Lesser yam	Dioscorea esculenta	✓	✓	✓
	Gadung	Gadung	Yam	Dioscorea hispida	✓	✓	✓
	Ubi Kayu	Ubi Kayu	Cassava	Manihot utilissima	✓	✓	✓
	Ubi Rambat	Ubi Jalar	Sweet potato	Ipomoea batatas	✓	✓	✓
	Keladi	Talas/Kimpul	Taro	Xanthosoma violaceum	✓	✓	✓
	Tebu	Tebu	Sugar cane	Saccharum officinarum	✓	✓	✓
Palm starch	Sagu	Sagu		Metroxylon sagu Rottb.	✓	✓	✓

Table 48. Varieties of fruits consumed by the the Orang Rimba, 2013-2016

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Rambutan	Rambutan asli	Rambutan	Nephelium lappaceum	✓	✓	✓
Tampuy	Tampuy nasi	Unidentified	Baccaurea macrocarpa	✓	✓	✓
Cempedak	Cempedak	Unidentified	Artocarpus champeden	✓	✓	✓
Duku	Duku	Unidentified	Lansium domesticum	✓	✓	✓
Benton	Unidentified	Unidentified	-			✓
Durian haji	Durian Haji	Durian	Durio zibethinus	✓	✓	✓
Kemang	Kemang	Unidentified	Mangifera kemanga			✓
Buntor	Petaling	Unidentified	Ochanostachys amantacea			✓

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Tayoi	Mbacang hutan	Unidentified	Mangifera odorata			✓
Langsat	Langsat	Unidentified	Lansium domesticum			✓
Dekan	Rambutan Liar	Wild rambutan	Nephelium uncinatum			✓
Harong Paro	Rambutan Kabung	Rambutan Kabung	Nephelium cuspidatum			✓
Tunggo	Kepundung	Unidentified	Baccaurea acimosa			✓
Pisang	Pisang	Banana	Musa paradisiaca	✓	✓	✓
Nangka	Nangka	Jackfruit	Cocos nucifera	✓	✓	✓
Mangga	Mangga	Mango	Mangifera indica L	✓	✓	✓
Manggis	Manggis	Mangosteen	Garcinia mangostana L	✓	✓	✓
Kandis	Kandis	Purple mangosteen	Garcinia rigida	✓	✓	✓
Siuk	Rambutan	Rambutan	Nephelium rambutanake	✓	✓	
Kabau	Kabau	Unidentified	Archidendron bubalinum	✓	✓	✓
Tempunik	Cempunik/ Tampunik	Unidentified	Artocarpus rigidus	✓	✓	✓
Tapos	Kayu Tapos	Unidentified	Elaterios tapos Bl	✓	✓	✓
Bekil	Cempedak air	Unidentified	Artocarpus kemando	✓	✓	✓
Durian Daun	Durian Daun	Unidentified	Durio oxleyanus	✓	✓	✓
Rambai	Rambai	Unidentified	Baccaurea motleyana	✓	✓	✓
Matoa	Matoa	Unidentified	Pometia pinnata	✓	✓	✓

Table 49. Varieties of squirrels consumed by the the Orang Rimba, 2013-2016						
Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Posou	Tupai Posau	Four-striped ground squirrel	Loriscus hosei	✓	✓	✓
Kelapo	Tupai Kelapa	Plantain squirrel	Callosciurus notatus	✓	✓	✓
Hulot	Baging Kerdil Mulut Merah	Sculptor squirrel	Glyphotes simus	✓	✓	✓
Muncung	Tupai Tanah	Large tree shrew	Tupaia tana	✓	✓	✓
Belang	Baging Tiga Warna	Prevost's squirrel	Callosciurus prevostii	✓	✓	✓
Seretuk	Jelarang Bilalang	Cream-coloured giant squirrel	Ratufa affinis	✓	✓	✓
Peri	Tupai Kerdil Telinga Hitam	Black-eared squirrel	Nannosciurus melanotis	✓	✓	✓
Sepanjang Lidah	Baging Tanah Moncong Runcing	Broad-tailed molossid bat	Rhinosciurus laticaudatus			✓

Table 50. Varieties of rats consumed by the the Orang Rimba, 2013-2016						
Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Tobing	Tikus Gunung Raksasa Sunda	Mountain giant rat	Sundamys infraluteus		✓	✓
Pematong	Tikus Duri Merah	Rajah spiny rat	Maxomys rajah		✓	✓
Bumbun	Tikus Raksasa Ekor Panjang	Long-tailed giant rat	Leopoldamys sabanus		✓	✓
Betong	tikus serdang	Brown rat	Rattus norvegicus		✓	✓
Belu dedo	Tikus Duri Kecil	Small spiny rat	Maxomys baeodon		✓	✓
Mencit	Tikus rumah	House mouse	Mus castaneus		✓	✓
Kukus	Moonrat/ Tikus Besar	Moonrat	Echinosorex gymnurus	✓	✓	✓

Table 51. Varieties of bats consumed by the the Orang Rimba, 2013-2016

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Buluh	Kelelawar Sayap Kecil	Greater bamboo bat	Tylonycteris robustula		✓	✓
Beyot	Kalong Pemakan Serangga	Naked bulldog bat/Greater naked bat	Cheiromeles torquatus		✓	✓
Keluluang	Lempang	Large flying fox	Pteropus vampyrus		✓	✓
Kelelawor labing	Kudanil Terbang	Fawn-coloured leaf-nosed bat	Hipposideros cervinus			✓
Kelelawor mergo	Barong Dwiwarna	Bicoloured leaf-nosed bat	Hipposideros bicolor			✓
Kelelawor doun pisang	Lasiwen Pucuk Pisang/Lasiwen Biasa	Nepalese whiskered bat	Myotis muricola			✓
Betung buruk	Bronze tube-nosed bat	Bronze tube-nosed bat	Murina eanea			✓

Table 52. Varieties of birds consumed by the the Orang Rimba, 2013-2016

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Kouw	Kuau Raja	Great argus	Argusianus argus	✓	✓	✓
Betaji (B)	Sempidan Sumatra	Salvadori's pheasant	Lophura inornata	✓	✓	✓
Dugang/Muo	Sempidan Biru	Bornean crested fireback	Lophura ignita rufa		✓	✓
Henggang	Rangkong Badak	Rhinoceros hornbill	Buceros rhinoceros	✓	✓	✓
Burung Geding	Rangkong Gading	Helmeted hornbill	Buceros virgil		✓	✓
Kuneng Paru	Julang Jambul Hitam	Wrinkled hornbill	Aceros corrugatus	✓	✓	✓
Pusoron (B)	Julang Emas	Wreathed hornbill	Aceros undulatus		✓	✓
Puyu	Puyuh Gonggong Biasa	Grey-breasted partridge	Arborophila orientalis		✓	✓
Selelayak	Kangkareng Hitam	Asian black hornbill	Anthraceroceros malayanus	✓	✓	✓
Huban (B)	Enggang Jambul	White-crowned hornbill	Aceros comatus	✓	✓	✓

Appendices

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Kongkoy	Enggang Klinghingan	Bushy-crested hornbill	Anorrhinus galeritus	✓	✓	✓
helang Kedundung	Elang Ikan Kecil	Lesser fish eagle	Ichthyophaga humilis		✓	✓
Lembuan/ Limbukon	Pergam Hijau	Green imperial pigeon	Ducula aenea		✓	✓
Siulon	Puyuh Sengayan	Crested partridge	Rollulus rouloul	✓	✓	✓
Sarop	Ciung Air-pongpong	Fluffy-backed tit-babbler	Macronous ptilosus		✓	✓
Pipit	Bondol Tunggir Putih	White-rumped mania	Lonchura striata		✓	✓
Berba	Merbah Cerukcuk	Yellow-vented bulbul	Pycnonotus goiavier	✓	✓	✓
Cekok/Lekok	Kadalan Beruang	Black-bellied malkoha	Phaenicophaeus diardi		✓	✓
Murai Batu	Kucica Hutan	White-rumped shama	Copsychus malabaricus		✓	✓
Sembubut	Bubut Besar	Crow pheasant	Centropus cinensis		✓	✓
Sembubut Rantou	Kadalan Selaya	Raffles's malkoha	Phaenicophaeus chlorophaeus		✓	✓
Doun	Cica Daun Besar	Lesse green leafbird	Chloropsis cyanopogon	✓	✓	✓
Cinta Kasih	Paruh Kodok KepalaPucat	Short-tailed frogmouth	Batrachostomus polioloophus		✓	✓
Cabe	Cinenen Merah	Rofous-tailed tailorbird	Orthotomus sericeus	✓	✓	✓
Kololohuy	Tepus Tunggir-Merah	Chestnut-rumped babbler	Stachyris maculata		✓	✓
Kellelohui Gejoh	Luntur Gunung	Javan trogon	Harpactes reinwardtii	✓	✓	✓
Bintialo	Udang Api	Black backed kingfisher	Ceyx erithacus		✓	✓
Binti Aik	Meninting Besar	White-crowned forktail	Enicurus leschenaulti		✓	✓
Tiung	Tiong Emas	Indian hill mynah	Gracula religiosa		✓	✓
Cecap	Pijantung Tasmak	Spectacled spiderhunter	Arachnothera flavigaster	✓	✓	✓
Engkal-engkal	Kangkareng Perut Putih	Oriental Pied hornbill	Anthracoceros albirostris	✓		✓

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Punoi	Punai Pengantin	Grey-cheeked green pigeon Banded fruit	Treron griseicauda	✓		✓
Pergam	Walik Putih	dove	Ptilinopus cinctus	✓		✓
Bengkoak	Punai Besar	Large green pigeon	Treron capellei	✓		✓
Bencilak	Prenjak Jawa	Yellow lelied prinia	Prinia flaviventris	✓		✓
Helang Kedundung	Elang Ikan Kecil	Lesser fish eagle	Ichthyophaga humilis			✓
Helang Tonggak	Baza Jerdon	Unidentified	Aviceda jerdoni			✓
Ayam Hutan	Ayam Hutan Merah	Chicken/ domestic fowl	Gallus gallus			✓
Serindit	Serindit Melayu	Blue-crowned hanging-parrot	Loriculus galgulus			✓
Serindit	Nuri Tanau	Blue-rumped parrot	Psittinus cyanurus			✓
Beburungan	Celepuk Besar	Raptor	Ottus sagittatus			✓
Kellelohui Gejoh	Luntur Gunung	Javan trogon	Harpactes reinwardtii			✓
Kesumbo	Luntur Putri	Scarlet-rumped trogon	Harpactes duvaucellii			✓
Bengkako	Cekakak Batu	Banded kingfisher	Lacedo pulchella			✓
Bintialo	Udang Api	Black backed kingfisher	Ceyx erithacus			✓
Binti aik	Meninting Besar	White-crowned Forktail	Enicurus leschenaulti			✓
Bengkako Pematong	Cekakak Hutan Melayu	Rofous-collared kingfisher	Actenoides concretus			✓
Burung Rapah	Cirik-cirik Kumbang	Red-bearded bee-eater	Nyctornis amictus			✓
Burung Hubanon	Enggang Jambul	White-crowned hornbill	Aceros comatus			✓
Kuning Paru	Julang Jambul Hitam	Wrinkled hornbill	Aceros corrugatus			✓
Cancong	Takur Tutut	Red-crowned barbet	Megalaima rafflesii			✓
Sembubut	Bubut Alang-alang	Lesser coucal	Centropus bengalensis			✓

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Pialing	Madi Kelam	Dusky broadbill	Corydon sumatranus			✓
Tiung tanah	Paok Hijau	Hooded pitta	Pitta sordida			✓
Kuning	Cucak Kuricang	Grey-cheeked bulbul	Pycnonotus atriceps			✓
Berba jelatong	Empuloh Janggut	Brown-cheeked bulbul	Alophoixus bres			✓
Sawai	Srigunting Batu	Greater racket-tailed drongo	Dicrurus paradiseus			✓
Sinyinjeri	Tangkar Ongklet	Crested jay	Platylophus galericulatus			✓

Table 53. Varieties of snakes consumed by the the Orang Rimba, 2013-2016

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Sawoh	Sanca batik	Reticulated phyton	Phyton reticulatus	✓	✓	✓
Todung/kobra	Kobra	Javan spitting cobra	Naja sputatrix		✓	
Pandok	Sanca darah sumatra	Blood phyton	Phyton brongersmai	✓	✓	✓
Pepunti	Ular cincin mas	Gold-ringed cat snake	Boiga dendrophila	✓	✓	✓
Gerom	Ular anang	King cobra	Ophiophagus hannah		✓	✓
Piahi	Ular karung	Elephant's trunk snake	Acrochordus javanicus		✓	✓
Senamo	Ular gadung	White-lipped tree viper	Cryptelytrops albolabris		✓	✓

Table 54. Varieties of turtles consumed by the the Orang Rimba, 2013-2016

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Boyuku	Bajuku	Bornean river turtle	Orlitia borneensis	✓	✓	✓
Pangkak	Kura kura Duri	Spiny turtle	Heosemys spinosa	✓	✓	✓
Beneng	Baning Coklat	Asian forest tortoise	Manouria emys	✓	✓	✓
Sebado	Kura-kura Pipi putih	Black marsh turtle	Siebenrockiella crassicolis	✓	✓	✓
Lelabi	Antipia	Asian giant softshell turtle	Pelochelys cantori			✓
Sesembung	Lani-labi Irian	Giant softshell turtle	Pelochelys bibroni			✓
Sembodo Hangit	Kuya Batok	South Asian box turtle	Cuora amboinensis			✓

Table 55. Varieties of amphibia invertebrata consumed by the Orang Rimba, 2013-2016

Local Name	Bahasa Indonesia	English	Species	Sako Tulang	Terab	Air Hitam
Katak	Katak	Frog	Rana sp	✓	✓	✓
Kodok	Katak	Frog	Rana sp		✓	✓
Udang beras	Udang Beras	Red Nose Shrimp	Caridina gracilirostris	✓	✓	✓
Kepiting Air	Kepiting Air	Freshwater Crab	Parathelphura tridentata	✓	✓	✓
Lebah Madu	Lebah Madu	Honeybee	Apis sp	✓	✓	✓
Cicak	Cicak	House Geckos	Hemidactylus sp	✓	✓	✓
Kelelatu	Rayap/Pengurai	Termites	Termitidae	✓	✓	✓
Keong	Keong	Snail	Pila sp	✓	✓	✓
Kukang (B)	Kodok	Common Toad	Bufo sp		✓	✓
Kelampaian Hantu	Belalang Sentadu	Grasshopper	Mantidae	✓	✓	✓
Sentadak	Belalang Sentadu	Grasshopper	Mantidae	✓	✓	✓
Belalang Rusa	Belalang	Javanese Grasshopper	Valanga sp	✓	✓	✓

Curriculum Vitae

Ekoningtyas Margu Wardani (Dani) was born on 30 October 1976 in the small town of Purwodadi in Central Java, Indonesia. She is the first child from teacher parents, her mother was a kindergarten teacher, and her father was a school principal. After finishing her high school education in Purwodadi, she went to university to study economics. She finished her bachelor's and master's degrees at Universitas Gajah Mada in Yogyakarta (Indonesia). From February 2004 up to January 2015, she was affiliated with the Centre for Asia and Pacific Studies at Universitas Gadjah Mada as a researcher. Her first field research among the Orang Rimba took place during that period.

In 2012 she was accepted as a PhD student at the Institute for Cultural Anthropology and Development Sociology of Leiden University, with a grant from the Louwes Fund for Research on Water and Food. For this research, she returned to Jambi to do fieldwork among the Orang Rimba again. At present she is a Programme Specialist for Resource Economy and Livelihood at the ASEAN Centre for Biodiversity, the Philippines. Besides being actively engaged in her regular work, she also works on research projects and consultancies. Her focus is on natural resource management, food security, indigenous peoples, environmental economics, and sustainable livelihoods.

Food Security among the Orang Rimba in Jambi



By using the lens of food security, it is possible to understand the transformation processes of the Orang Rimba hunter-gatherers in Central Jambi (Sumatra, Indonesia) in times of change. The establishment of rubber and oil palm plantations in their home territory has become the major factor in the economic development of the province.

This dissertation uses a multidisciplinary approach to study food security, employing methods from economics and anthropology. It analyzes the food security conditions using the combined techniques of daily food intake and ethnographic approaches.

While the Orang Rimba are facing food insecurity conditions due to various pressures, it is of great importance to protect the remaining forest in which the Orang Rimba live. This is not only crucial for the Orang Rimba's food security and livelihoods but also for protecting the biodiversity in the Bukit Duabelas National Park and its adjacent areas that the Orang Rimba call their home.