

# Bushmeat consumption in BANGUI (Central African Republic)

Christian FARGEOT  
CIRAD

Environnement et Sociétés  
Ur 105 Biens et Services environnementaux  
des Ecosystèmes Forestiers Tropicaux



Financed by Fond Français pour l'Environnement Mondial  
FFEM

# National and international context

- Bushmeat crisis and biodiversity crisis
- Local context
  - A large and sparsely populated country
  - A poor country
  - Bangui, a big town

# Study objectives

- Study bushmeat consumption determinants in urban environment
  - Quantify the network economic weight
- 
- A photograph of a man in a blue long-sleeved shirt standing next to a red bicycle. The bicycle is heavily loaded with green bananas and two monkeys are perched on the front basket. The background shows a dirt path and lush green vegetation, suggesting a rural or forested area.



# Methods

- **Families choice**

- 20 families chosen by 50 Bangui IUGE students

- **No seasonal effect on**

- consumption,** outside caterpillar period  
(july-september)

# Sample representativeness

On RGP 2003 basis:

- **Good geographical distribution**
- **Ethnic distribution: major ethnic groups (Banda and Gbaya) lightly undersampled, but oversampling of Yakoma**
- **For social and economic matter, oversampling of upper-class**

- **Daily proteins consumption study of the 1000 families during a week, in 2008 march**
- **One social and economic data record by family**
- **Daily list of all proteins purchase money value and of family consumers number**

A large pile of dark, charred animal carcasses, likely sheep or goats, is shown. The carcasses are piled together, with some showing skeletal structures and others appearing more whole but heavily charred. The word "RESULTS" is overlaid in large, bold, yellow capital letters in the center of the image. The background is slightly blurred, showing what appears to be an outdoor setting with some wooden structures.

# RESULTS



# Families mean daily purchases

(F CFA / Person / day)

23.07.2010 07:20

	<b>Mean</b> (F CFA/pers/day)	Standard- E	<b>%</b>
<b>Total Food</b>	<b>292</b>	5,35	
<b>Proteins</b>	<b>167</b>	3,64	<b>100%</b>
<b>Beef</b>	<b>67</b>	1,75	<b>40%</b>
<b>Fish</b>	<b>39</b>	1,21	<b>24%</b>
<i><b>Fresh bushmeat</b></i>	<i><b>8</b></i>	<i>0,61</i>	<i><b>5%</b></i>
<i><b>Smoked busmeat</b></i>	<i><b>28</b></i>	<i>0,96</i>	<i><b>17%</b></i>
<b>Total bushmeat</b>	<b>36</b>	1,20	<b>22%</b>
<b>Total Others</b>	<b>24</b>	1,65	<b>15%</b>

# DISCUSSION





**Bushmeat consumption  
organisation**

# Religion

	Nb	Mean (F CFA/pers/day)	E- standard
<b>Catholic</b>	452	<b>37</b>	1,82
<b>Others et ND</b>	17	<b>45</b>	12,37
<b>Muslim</b>	41	<b>4</b>	1,66
<b>Protestant</b>	472	<b>39</b>	1,70
<b>Jehovah's T.</b>	17	<b>13</b>	5,49

# Ethnic origin

	Nb	Mean (F CFA/pers/day)	Standard- E
<b>Banda</b>	188	<b>34</b>	2,75
<b>Others &amp; ND</b>	93	<b>41</b>	4,22
<b>Foreigners</b>	<b>28</b>	<b>17</b>	<b>5,90</b>
<b>Foulbé</b>	<b>10</b>	<b>0</b>	<b>0</b>
<b>Gbaya</b>	244	<b>39</b>	2,48
<b>Oubanguiens</b>	126	<b>39</b>	3,58
<b>Sara</b>	43	<b>33</b>	4,73
<b>Yakoma</b>	268	<b>35</b>	2,20

# Purchasing power

		Richs	Poors
Proteins	% buyers	100 % <sup>NS</sup>	98 % <sup>NS</sup>
	Mean amount (F CFA/pers/day)	389	47
Smoked B.	% buyers	71 % <sup>NS</sup>	64 % <sup>NS</sup>
	Mean amount (F CFA/pers/day)	82	16
Fresh B.	% buyers	32 % <sup>s</sup>	6 % <sup>s</sup>
	Mean amount (F CFA/pers/day)	69	12

# **Bushmeat is essential for protein balance of poors food ration**

	<b>Richs</b>	<b>Poors</b>
<b>Smoked B./Proteins</b>	<b>21 %</b>	<b>34 %</b>
<b>Fresh B./Proteins</b>	<b>18 %</b>	<b>25 %</b>



A large, woven basket is filled with fresh green leaves and a large quantity of caterpillars. The caterpillars are dark with yellow and white markings. The basket is being held by several people, whose hands and parts of their clothing are visible. The background shows an outdoor market setting with dirt ground and some greenery.

# Proteins Prices

Central Market Bangui  
(F CFA / kg)

		Observed <sub>market</sub>	Corrected <sub>biomass equivalent</sub>
Bushmeat	Fresh	2 906	2 906
	Smoked	2 932	968
Beef with bone		1 656	1 656
Fish	Fresh	2 746	2 746
	Smoked	4 773	1 193
Caterpillars	Fresh	965	965
	Smoked	2 961	987
Chicken		2 672	2 672
Pork		1 904	1 904

# NOUVEAU MONDE



PRIX DE CARTOUCHE DE CHASSE

**GMC-MMC SPARTAN**

DETAILLE 600<sup>F</sup>

REMISE 550<sup>F</sup>

PRIX DE BOÎTE DE SPARTAN 15,000<sup>F</sup>

REMISE DE BOÎTE DE SPARTAN 13750

CARTOUCHE DE CHASSE 00

SOCIETE GMS - MMC

CHEZ : NDENGO



KING DECOR  
Tel: 75 35 24 49  
Bgué (ach)

Network economic weight

- Bangui built-up area population : 840.000 persons (2009 estimation)
- Muslims ratio : 8 %
- Population division :
  - Upper class = 10 %
  - Mean class = 60 %
  - Poor class = 30 %
- Bushmeat consumption reduction during caterpillars period
- On all Bangui markets
  - Fresh bushmeat = 2.100 F CFA / kg
  - Smoked bushmeat = 2.800 F CFA / kg

	<b>Value</b> (millions F cfa)	<b>Volume</b> fresh biomass (Tons)
<b>Fresh B.</b>	<b>1.500</b>	<b>700 T</b>
<b>Smoked B.</b>	<b>6.800</b>	<b>7.300 T</b>
<b>TOTAL</b>	<b>8.300</b> (16 millions US \$)	<b>± 8.000 T</b>



**CONCLUSIONS**

- **A « centrafrican » way of bushmeat consumption.**
- **Bushmeat is a basic consumer product, particularly smoked bushmeat.**
- **Except muslims, bushmeat consumption level depends of living standard.**
- **Smoked bushmeat is very important for poors (prices, display mode)**
- **Bangui bushmeat network (8.000 biomass T) weighs 1,2 % of GDP**