



MAP STUDY RESULTS IN BATEYES OF THE DOMINICAN REPUBLIC MAY 2006

The following study was conducted thanks to the funding of KfW and PANCAP, through Options Consulting and the CARISMA project, under Subcontract # BMZ ID 2003 65 403 with Population Services International (PSI). The study was commissioned by PSI Republica Dominicana and conducted by Facultad Latinoamericana de Ciencias Sociales (FLACSO)[Latin American School of Social Sciences]. The study was designed by PSI with the support of Bram Piot. The report was prepared by Julia Hasbún, Robin Letscher, and Hermes Baez.

I BACKGROUND

The MAP (*Measuring Access and Performance*) study in the bateyes of the Dominican Republic was commissioned to measure the availability of condoms in these communities. This study is used to provide information essential to designing a condom distribution system in the bateyes. The study will be used to establish a baseline through which PSI will monitor the impact of the new program.

For the bateyes population, several variables were established at the beginning of the project by the designers of the study:

- “Coverage” is defined as the proportion of bateyes where there is at least one point of sale in the same community where condoms (any brand) are available on a regular basis.
- “Coverage Quality” is defined as the proportion of bateyes where there is at least one point of sale in the same community where condoms (any brand) are available on a regular basis, **AND WHERE:**
 - Items promoting condoms or general information on HIV/AIDS prevention are visible.
 - Condoms are kept in a visible location in the point of sale.
 - The point of sale is open until 9:00 PM.
 - “Stock-outs” do not occur on a regular basis.
 - The price of Panté condoms corresponds to the price established by PSI (5 DOP for 2 units).
- “Accessibility” is defined as the proportion of bateyes residents who live in a batey where there is condom coverage (according to the coverage definition).

II DATA COLLECTION

In February 2006, with the sampling from the TRAC Study, which was being conducted for PSI, information was gathered in 50 bateyes included in the sample of the study in order to carry out a MAP study.

For this study, two questionnaires were created, which the supervisors of the TRAC study had to use in each batey. In these questionnaires, the following variables were included:

- Batey number
- Province
- Coordinates: Latitude and longitude of the batey measured using GPS.
- Estimated number of residents

- List of government services: electricity, water supply system, schools, health centers
- The existence of visible messages promoting HIV/AIDS prevention
- The existence of a point of sale for condoms
- Type of store
- The existence of more than one point of sale
- Brand of condoms sold
- Price
- Visibility of the condom supply in the stores
- Store hours of operation

There were some difficulties measuring some of these variables, such as for example, the number of residents in the batey. This question was posed to the local mayor of the batey and it was noted that in many cases, they were not certain about the number of residents because a census of this batey had not been taken in 2002. Therefore, the figures provided are only approximate. With this same variable, it was observed that the data that the NGOs had provided on the number of residents was not correct and in the majority of cases, there was excessive overestimation. For example, one batey was visited, which the list said had 1,500 homes, but there were actually 200.

Therefore, the measurement of this variable was uncertain and unreliable.

Another obstacle observed was that many bateyes are no longer considered as such, and for example while they know where Caballona or Hato Nuevo are, residents and neighbors alike do not consider it a batey, although in the past it was.

The results from 47 bateyes are presented below (information from three bateyes was lost). Facultad Latinoamericana de Ciencias Sociales (FLACSO) collected the data.

III RESULTS

A. GENERAL

Table 1 MAP Study Monitoring. N=47

Variable	Percentage
Electricity available	95.7
Water supply system available	87.2
There is a school	87.2
They have a public health center	46.8
There is visible HIV/AIDS promotion	0.0
There are points of sale for condoms	78.7
There are no points of sale for condoms	21.3
Condoms are sold in grocery stores	89.2

There is more than one point of sale for condoms	55.3
Condoms are visible in stores	83.8
Condoms always or almost always available	78.7
Normally, there are condoms available	78.7

95.7% of the bateyes surveyed had electricity, and 87.2% had a public water supply system. There was some type of school in 87.2%, and a public health center in 46.8%. In the bateyes with no school or health center, the residents reported going to other centers in the nearest town. No visible messages promoting HIV/AIDS/STI prevention were observed in any of the bateyes.

In 78.7% of the bateyes, there was at least one condom outlet; 21.3% had no points of sale or distribution. In 55.3% of the bateyes surveyed, there was more than one point of sale. Of the bateyes with points of sale, 89.2% were grocery stores and 83.7% of the points of sale had condoms visible to the public in the boxes supplied by the condom makers. Free distribution was only reported in one medical clinic.

In 79% of the bateyes surveyed, condoms were always or almost always available. The same proportion responded that they normally had condoms available.

There was not much variation in condom prices, with the exception of outreach workers who sold each condom at a lower average price than the brand sold most (Panté). The latter was selling at 5 pesos for two condoms, or 10 pesos for a box of 4 condoms.

The hours of operation of the points of sale were normally 7 AM to 11 PM, with their exceptions.

B. COVERAGE AND COVERAGE QUALITY

The results show **68% coverage for the *Panté* brand**: 32 of 47 bateyes have at least one point of sale where Panté condoms are available. When any condom brand is considered, there is 79% coverage in the bateyes, however it must be noted that another brand of condoms is seldom found without Panté as well.

The variables that comprise the “coverage quality” are also very good. Each indicator (visibility, no regular “stock-outs,” point of sale hours of operation and price) notes well where Panté is available, with the exception of promotional materials, which are not found in the bateyes for any brand.

Batey Population	Brands	Coverage	Visibility	Promotion Materials	No Regular “Stock-outs”	Hours of Operation (open after 9PM)	Price (= <5DOP) for 2 units
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All Bateyes (N=47)		Panté	68%	62%	0%	68%	62%	60%
		All brands	79%	66%	0%	79%	68%	68%
		Other brands only	11%	4%	0%	11%	6%	9%
Bateyes with population. (N=42)	146,645	Panté	67%	60%	0%	67%	60%	57%
	161,995	All brands	79%	64%	0%	79%	67%	67%
	15,350	Other brands only	12%	5%	0%	12%	7%	10%

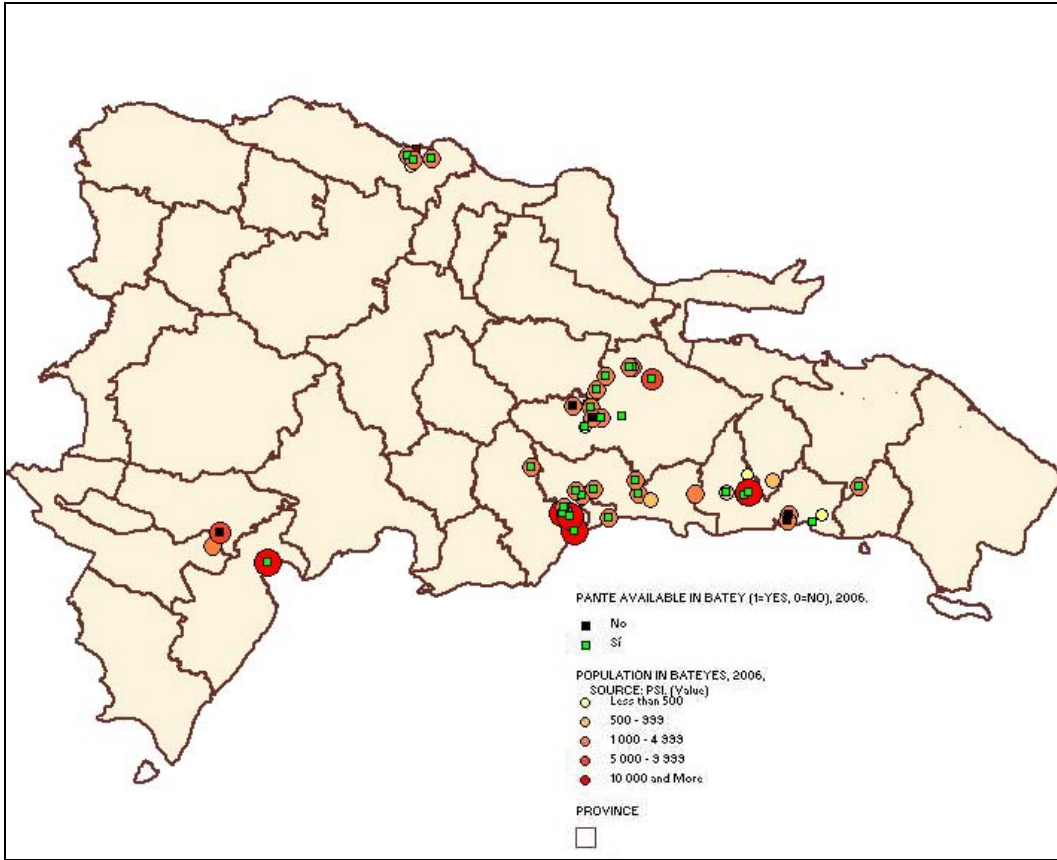
Total Population 168,595

C. ACCESSIBILITY

The accessibility indicator, which is actually a measurement of coverage adjusted to reflect the distribution of the population, is also very acceptable. **87% of the estimated population has access to Panté condoms-** (146'645 / 168'595). In total, 96% of the population has access to some brand of condoms or generic condoms. These figures are higher than those of the coverage findings, which show that it is more probable to find condoms in the larger bateyes.

(Note: A potential prejudice in this number is the fact that the population estimates come from information obtained in the MAP survey and the information was not noted in 5 bateyes. If this information is added, the accessibility figure could vary.)

Map 1 shows the distribution of the 47 bateyes, the size of the community and the availability of condoms.



APPENDICES

MATRIX # 1 OF RESULTS OF THE MAP STUDY. 2006.

Batey Name	Province	HIV/AIDS Promotion Visible	Condoms Available Where	More than one location sells condoms	Brand Condoms	Price Condoms for 2 units	Condoms always available	Normally there are condoms available	Condoms Visible	Hours of Operation
Guazama	Yamasá	No	Outreach worker Grocery Store	No	Generic	5 pesos	Yes	Yes	No	8 PM to 10 PM 7 AM to 10 PM
La siria Sábana Payabo	San Pedro M. Monte Plata	No	No hay Grocery Store	No	Panté	5 pesos	Yes	Yes	Yes	
Central san Luis	Sto. Dgo. Este	No	Grocery Store	Yes	Panté	3 pesos	Yes	Yes	Yes	7 AM to 10:30 PM 8 AM to 2 AM
Palmarejo	Sto. Dgo. Oeste	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	7 AM to 10 PM 7 AM to 11 PM
Los cazabe	Sto. Dgo Norte	No	Store, Pharm. Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	6.30 AM to 11 PM 7.30 AM to 11 PM 8 Am to 12 PM
Hato Nuevo	Sto. Dgo. Oeste	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	
Batey 43	Villa altagracia Sto. Dgo. Oeste	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	
Palavé Haina	Sto. Dgo. Este	No	Grocery Store, Pharm.	Yes	Panté	5 pesos	Yes	Yes	Yes	
Central Monte Coca	San Pedro M.	No	None Grocery Store	No	Panté	5 pesos	Yes	Yes	No	7 AM - ? 8 Am to 12 PM
La Mina	Yamasá	No	Grocery Store	No	Panté	5 pesos	Yes	Yes	No	
El Cacique Batey Central	Monte Plata Barahona	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	7 AM - ? 6.30 AM to 10 PM
Juan Sánchez Los Frías II Negro Melo	Monte Plata Monte Plata Puerto Plata	No	None None Grocery Store	No	Panté	5 pesos	Yes	Yes	Yes	
Caballona	Sto. Dgo. Oeste	No	Store	Yes	Panté	5 pesos	Yes	Yes	Yes	6.30 AM to 11 PM
Lechería	Sto. Dgo. Oeste	No	Grocery Store	Yes	Panté	7.50 pesos	Yes	Yes	Yes	6 AM to 10

Batey Name	Province	HIV/AIDS	Condoms	More than one location sells condoms	Brand	Price	Condoms	Normally	Condoms	Hours
		Promotion Visible	Available Where		Condoms	Condoms for 2 units	always available	there are condoms available	Visible	of Operation
El toro Batey 9	Sto. Dgo. Este Independencia	No	Grocery store	Yes	Panté	5 pesos	Yes	Yes	Yes	PM 7 AM to 11 PM
Triple S. Pedro Batey	Monte Plata	No	Grocery Store	Yes	Panté	7.50 pesos	Yes	Yes	Yes	7 AM to 12 PM
Santa Fé	San Pedro M.	No	Grocery Store	Yes	Te amo	7.50 pesos	Yes	Yes	Yes	7 AM to 10.30 PM
Matamamón Sábana larga	La victoria Monte Plata	No	Grocery Store, Pharm.	Yes	Panté	5 pesos	Yes	Yes	Yes	7 AM to 2 AM
Yaco	Sto. Dgo. Oeste	No	Grocery Store	Yes	Panté and Te amo	7.50 pesos	Yes	Yes	Yes	7 AM to 12 PM
Palamara	Sto. Dgo. Oeste	No	Grocery Store	Yes	Panté and generic	5 pesos	Yes	Yes	Yes	7 AM to 10 PM
Duquesa El tamarindo	Sto. Dgo. Oeste Puerto Plata	no	Grocery Store	No	Panté	5 pesos	Yes	Yes	Yes	7.30 AM to 9 PM
Ulloa	San Pedro M.	No	Grocery Store	Yes	Panté, Durex	5 pesos	Yes	Yes	Yes	8 AM to 10 PM
Esperanza	San Pedro M.	No	No hay Outreach worker	No	Generic	4 pesos	Yes	Yes	No	7 AM- ? 8 AM to 10 PM
Mosquit	Puerto Plata	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	7.30 AM to 9.30 PM
Bella Vista	Puerto Plata	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	8 AM a 11 PM
Frías I	Monte Plata	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	8 AM a 11 PM
Unión San Isidro Stogan	Plata Sto. Dgo. Este Sto. Dgo. Este	No	None	No			No	No	No	
La paloma	San Pedro M.	No	Grocery Store	No	Panté	5 pesos	Yes	Yes	Yes	7 AM to 10.30 PM
La Jagua	Monte Plata	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	7 AM to 11 PM

El Soco	San Pedro M.	No	Grocery Store, dispens.	Yes	Panté	5 pesos and gratis	Yes	Yes	Yes	7 AM to 12 PM
Jaguar	San Pedro M.	No	None	No			No	No		
Batey 3	Bahoruco	No	Grocery Store	No	Generic	5 pesos	Yes	Yes	Yes	8 AM to 10 PM
Bienvenido	Sto. Dgo. Oeste	No	Grocery Store, Pharm.	Yes	Panté	5 pesos	Yes	Yes	Yes	7 AM to 2 AM
La pista	Monte Plata	No	Seller	No	Panté	10 pesos	Yes	Yes	No	8 AM to 12 PM
Batey Name	Province	HIV/AIDS	Condoms	More than one location sells condoms	Brand	Price	Condoms	Normally	Condoms	Hours
		Promotion Visible	Available Where		Condoms	Condoms	always available	there are condoms available	Visible	of Operation
Hato San Pedro	Monte Plata	No	Grocery Store	No	Panté and Te amo	5 and 7.50 p.	Yes	Yes	Yes	7 AM to 9 45 PM
Quisqueya	San Pedro M.	No	Grocery Store	Yes	Panté	5 pesos	Yes	Yes	Yes	7 AM to 12 PM
Guazumita	Monte Plata	No	Outreach worker	No	Generic	4 pesos	Yes	Yes	No	7 AM - ?

MATRIX # 2 OF RESULTS OF THE MAP STUDY, 2006

Batey Name	Province	Latitude	Longitude	Number of Residents	Has Electricity	Has water supply	Has school	Has Health Center
Guazama	Yamasá	18.51.376	070.01.461	1,000	Yes	No	Yes	Yes
La siria	San Pedro M.	18.32.634	69.25.657	1,000	Yes	Yes	Yes	No
Sábana Payabo	Monte Plata	18.53.984	069.57.077	120 Families	Yes	Yes	Yes	No
Central san Luis	Sto. Dgo. Este	18.33.013	069.47.762	3,000	Yes	Yes	Yes	No
Palmarejo	Sto. Dgo. Oeste	18.32.729	069.59.616	1,500	Yes	Yes	Yes	Yes
Los cazabe	Sto. Dgo Norte	18.33.738	069.57.144	4,000	Yes	Yes	Yes	Yes
Hato Nuevo	Sto. Dgo. Oeste	18.29.149	70.02.496	Do not know	Yes	Yes	No	No
Batey 43	Villa altagracia	18.38.479	70.10.335	2,000	Yes	Yes	Yes	No
Palavé	Sto. Dgo. Oeste	18.28.955	070.03.636	12,000	Yes	No	Yes	Yes
Haina Central	Sto. Dgo. Este	18.25.131	070.01.410	300,000	Yes	Yes	Yes	Yes
Monte Coca	San Pedro M.	18.35.685	069.19.673	800	Yes	Yes	Yes	No
La Mina	Yamasá	18.46.889	069.59.121	95 Families	Yes	Yes	Yes	No
El Cacique	Monte Plata	18.49.049	069.51.325	Do not know	Yes	Yes	Yes	No
Batey Central	Barahona	18.18.515	071.05.382	10,000	Yes	Yes	Yes	Yes
Juan Sánchez	Monte Plata	18.59.302	069.49.037	300 Families	Yes	Yes	Yes	No
Los Frías II	Monte Plata	18.51.812	069.58.519	100	No	Yes	Yes	No
Negro Melo	Puerto Plata	19.41.418	070.35.475	100	Yes	Yes	No	No
Caballona	Sto. Dgo. Oeste	18.30.145	070.03.168	Do not know 254	Yes	Yes	Yes	Yes
Lechería	Sto. Dgo. Oeste	18.30.158	070.03.618	Families	Yes	Yes	No	No
El toro	Sto. Dgo. Este			3,000	Yes	Yes	Yes	No
Batey 9	Independencia	18.22.143	071.17.026	2,300	Yes	Yes	Yes	No
Triple S. Pedro	Monte Plata	18.54.891	069.56.548	1,500	Yes	Yes	Yes	No
Santa Fé	San Pedro M.	18.28.465	069.16.357	3,000	Yes	Yes	Yes	No
Matamamón	La victoria	18.35.854	069.48.387	1,000	Yes	No	Yes	Yes
Sábana larga	Monte Plata	18.57.057	069.45.051	5,500	Yes	Yes	Yes	Yes

Yaco	Sto. Dgo. Oeste	18.34.579	79.01.777	200 Families	Yes	No	Yes	No
Batey Name	Province	Latitude	Longitude	Number of Residents	Has Electricity	Has water supply	Has school	Has Health Center
Palamara	Sto. Dgo. Oeste	18.33.642	070.01.010	1,200	Yes	No	Yes	No
Duquesa	Sto. Dgo. Oeste	18.28.007	069.54.009	1,300	Yes	Yes	Yes	No
El tamarindo	Puerto Plata	19.43.717	070.36.240	3,000	Yes	No	Yes	Yes
Ulloa	San Pedro M.	18.36.905	069.25.104	400	No	Yes	Yes	No
Esperanza	San Pedro M.	18.27.447	069.16.672	2,100	Yes	Yes	Yes	Yes
Mosquit	Puerto Plata	19.42.803	070.35.044	1,000	Yes	Yes	No	Yes
Bella Vista	Puerto Plata	19.43.208	0.70.31.075	1,800	Yes	Yes	Yes	No
Frías I	Monte Plata	18.51.088	069.57.745	1,000	Yes	Yes	Yes	No
Unión	Puerto Plata	19.44.900	0.70.34.332	Do not know	Yes	Yes	No	No
San Isidro	Sto. Dgo. Este	18.31.714	069.45.354	700	Yes	Yes	No	No
Stogan	Sto. Dgo. Este San Pedro	18.32.964	069.36.012	1,300	Yes	Yes	Yes	Yes
La paloma	M.	18.33.267	069.29.334	600	Yes	Yes	Yes	No
La Jagua	Monte Plata San Pedro	18.48.903	069.55.763	2,000	Yes	Yes	Yes	Yes
El Soco	M. San Pedro	18.27.028	069.11.461	Do not know	Yes	Yes	Yes	Yes
Jaguar	M.	18.28.697	069.09.504	60 Families	Yes	Yes	Yes	Yes
Batey 3	Bahoruco	18.24.708	071.15.470	8,000	Yes	Yes	Yes	Yes
Bienvenido	Sto. Dgo. Oeste	18.28.206	070.02.126	10,000	Yes	Yes	Yes	Yes
La pista	Monte Plata	18.59.315	069.49.706	2,500	Yes	Yes	Yes	Yes
Hato San Pedro	Monte Plata San Pedro	18.57.633	069.54.597	3,500	Yes	Yes	Yes	Yes
Quisqueya	M.	18.33.303	069.24.714	40,000	Yes	Yes	Yes	Yes
Guazumita	Monte Plata	18.48.805	069.57.489	250 Families	Yes	Yes	Yes	Yes

Questionnaire:

MAP Study on Condom Coverage in the Bateyes

Section 1: General Information on the Batey

1. Date ___ / ___ / 2006 Interviewer _____
2. Name of the batey _____
3. Province _____ Municipality _____
4. Coordinates of the center of the batey Lat : _____ Long : _____
5. Approximate number of residents _____
6. Is there electricity in the batey? (Y/N) _____
7. Is there any visible promotion of HIV/AIDS prevention in the batey?
8. Is there a place in the batey where one can obtain condoms?

(ask a minimum of 3 people before answering no)

Section 2: Information about the Point of Sale

9. Name of the point of sale (if it has a name) _____

10. Type of point of sale
 - a) kiosk (grocery store) (Y/N)
 - b) cafeteria/mini bar/terrace (Y /N)
 - c) motel/inn (Y /N)
 - d) health center/dispensary (Y /N)
 - e) pharmacy (Y /N)
 - f) others (specify) _____

Section 3: Condom Availability

11. Are condoms available now? (Y/N) – if no, proceed to question 14

12. If yes, what brands? _____

13. Are condoms always or almost always available? (Y/N)

14. If no, are condoms normally available? - if no, proceed to 18

15. Price of the condoms (make a list of the prices if more than one brand)
_____RDS

Are free condoms available? (Y/N)

16. Is the product stored in a visible location? (Y/N)

Are there materials promoting condoms or HIV prevention at the point of sale? (Y/N)

17. Hours of operation of the point of sale

Opens ____ : ____ Closes ____ : ____

18. Are any of the following products available?

- a) Alcohol (Y/N)
- b) Cigarettes (Y/N)
- c) Soft drinks(Y/N)
- d) Soap (Y/N)
- e) Tooth paste (Y/N)
- f) Bread (Y/N)
- g) Powdered milk
- h) Fresh vegetables or fruit
- i) Water (Y/N)