

**Cooperation between institutions  
First Draft**

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**Cooperation between institutions in the  
framework of the preparation of the NIP  
for Haiti**

- **The Ideal**
- The ideal towards which we strive in environment protection is the goal that everyone, rich or poor, urban or rural, should enjoy a quality of life that includes the satisfaction of basic needs, access to effective healthy environment, and a chance of self-fulfillment both spiritually and socially.
- First activity: POP inventory
- Second activity: Preparation of the National Profile

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**To the first step**

- Formation of the National Committee of representatives from Health, Agriculture, agronomy Faculty (Sciences Faculty)
- Those representatives perform different tasks: the most important was the verification of DDT data mentioning presence on Haitian markets. The representative was director of the organization responsible of the malaria project in the whole country. He made an exhaustive study and research of DDT in the island.

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**First stage.....**

- The Agronomy faculty had at the time the best functioning laboratory then it made the POP samples analyses (excepted Dioxins and furans) in order to verify the inventory and the fact that some POPs were reported locally available.
- Results of this investigation showed that people mistaken in pesticides use. The new pesticides are (traditionally) called : DDT or Chlordane, because their effects are similar.

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**First stage .....**

The (big) Ministry of Agriculture provided logistics and personal support through his representatives in remote regions, particularly when project activities were performed in villages; for example the study on pesticide use in dried fish preparation in fisher villages and POPs as food mixture (lurings) in wild ducks chasing.

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**Second stage**

**Stronger were the multisectoriel involvement in the national Profile preparation.**

- Public sector
- Private sector
- ONG
- International Organizations

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## Second stage.....

- **Tableau III : Suppliers list and contacted pesticides users . Info from Trade Ministry and customs services**
- Suppliers Address phones Port-au-Prince
- AgriSupply & CoParc Industriel Sonapi No 25249-0123/222-5617222-5619/223-9484223-9530
- Darbouco Rue du Quai No 87221-9866/222-2616/223-2132
- Rainbow Agro Industrie S.A.Drouillard Rte Laina Nle # 1223-7046/223-7054 Société des Produits Agrochimiques d'Haiti
- SOPRACH Rte de Delmas No 337246-0431/246-1446 AgroTechnique S.A. Ave Mrie Jeanne No 15 Bicentenaire 222-1558/222-7209/222-7247

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## Second stage.....

- Bicentenaire 222-1558/222-7209/222-7247 Jules Saint Juste Rue du Quai # 87 405-4435 Cap-Haïtien
- Comague Fort St Michel (close)
- Les Cayes Gerly Entreprises 1ere Gd Rue No 114
- Port-au-Prince Users' Address phones
- Boucard Pest Control Rte de Delmas No 337246-0431/246-1446
- Lebon Entreprises Rte de l'Aéroport No 3246-5880/ 246-5980
- Sanitec Pest Control Angle Rte de Delmas et Delmas 77 246-7882
- Terminix Pest Control Delmas 48 512-7873

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## Analyses performed by Faculty of Agronomy

- **Analysis goal:** Research of DDT in 3 samples
- No1 - Gonaves - Ref. Labo 2898
- No2 - Thiotte - Ref. Labo 2899
- No3 - Savanette - Ref. Labo 2900
- **Method used:** Thin layer chromatography (TLC)
- Adsorbent : silica gel with fluorescent indicator
- Mobile Phase : chloroform : méthanol : water 3/25/12
- Reference (standard) : 2,4 DDT et 4,4 DDT à 1 mg/ml in methanol
- Quantities put down : 2 microliters
- **Samples:** 1g/10 ml in methanol
- Quantities put down : 5 microliters

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## Analyses performed by faculty of Agronomy.....

- |                      | reference_1 | reference_2 | Samp_1 | Samp_2  | Samp_3 |
|----------------------|-------------|-------------|--------|---------|--------|
|                      | 2,4-DDT     | 4,4-DDT     | (Gon.) | (Thio.) | (Sav.) |
| • <b>RF obtained</b> | 0,20        | 0,16        | 0,71   | 0,71    | 0,71   |
| • <b>Second spot</b> | .....       | .....       | .....  | 0,77    | .....  |
- **Conclusions:** These samples don't contain DDT
  - Analysis realized by Ms. Annie Pierre M.S. analisis laboratory Dir. Od Agronomy faculty (she work for FAO too)
  - Those analyses results were confirmed through verification tests realized at the national veterinary and food laboratory of Tamarinierie and through UV spectroscopic measures.
  - We got the standards from the company: Absolute Standards, INC de Hamden USA whose product quality is guaranteed by the ISO 9001 norms..

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## Comments

- At that time our GC and HPLC didn't work because of looting of the laboratories after former President Aristide Departure. But now we can performed these analyses by HPLC or GC again.

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## PCB Analysis

- Ref. Labo 2901 PCB Aiy (Oil found in a condenser in Port-au-prince)
- **Method used:** Thin layer Chromatography (TLC)
- Adsorbent: silica gel with indicator fluorescent
- Mobile Phase : de petrol ether/acetate acid 19/1
- Reference: PCB att, 1 mg/ml in 'acetone
- Quantity put down : 2 microliters **Sample:**
- Dilution to 1/10 in 'acetone
- Quantity used: 2 microliters
- **Reference (standard PCB)**
- **sample**
- 1 spot 1 very important spot
- RF: 0,80 0,80
- **Note:** samples certainly contain PCB

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## Agronomy Faculty .....

- **Analysis :** malathion, sumithion, DDT, PCB, HCB, HAP research
- 2926 Fish Benzenic extract Grande-Anse, Les Irois
- 2941 White Powder Ducis (South)
- 2943 Soil chloroformic extract Cite Militaire 2944 White Powder Les Irois 2945 Used oil in water Varreux 2946 Under the soil melallurgic waste Cité Soleil Cite Boston 2947 grey powder at 3 meter away of grease canal Cite Boston

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## Faculty of Agronomy

- 2950 ASH from Leogane (West) Darbonne
- 2951 used water Leogane Darbonne (sugar company)
- 2952 sweet potatoes Leogane Darbonne 2953 chyote Leogane Darbonne
- 2954 sugar cane sirop Leogane Darbonne
- 2955 Meat kid (kidneys) (extrait acetonic and chloroformic extract) Leogane Darbonne

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- 2956 beef meat Leogane Darbonne
- 2957 Fish (extrait acetonic and chloroformic extract) Leogane Darbonne
- 2961 milk Leogane Darbonne
- 2960 Fish chloroformic Extract , Les Irois et Dame-Marie (Grande-Anse)

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## Agronomy Faculty.....

- **References :** chlordan DDT malathion sumithion PCB HCB
- HAP : naphthalen anthracen phénanthren fluoren acenaphtylen
- Pyren chrysen fluoranthen 1,2
- benzantracenen
- Benzo(a)pyren benzo(b)fluoranthen
- Benzo(k)fluoranthen
- 1,2,5,6 dibenzanthraceèe
- benzo(ghi)pérylen indéno(1,2,3-cd)pyren

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## Inter-ministerial commissions and coordination mechanisms

It is more and more evident that the chemical and waste management can't be approached by one sector.. The viability and effectiveness of all action in this sector need a synergy through mechanisms and high level commissions. In this case efforts are very promising.

- In order to avoid a dispersion in the activities, different commissions are been created ::
- The following figure present the existing commissions::

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## Inter-ministerial commissions and coordination mechanisms.....

- **Mechanism code Responsibilities Secretariat Members**  
Legislative mandat Objective
- **Available Information in Section 7.2 (yes/no)** COGO National Committee for Ozon management role in management of some chemicals, in particular : freon Protocol of Montreal, MDE
- **Committee Inter-ministerial- legislative texts -data base on the SAO - operational system of watching the elimination of SAO**
- **.CONAPOPs National Committee on the POPsrole in management of certain chemicals (POPs)Implementation of the Stockholm Convention, MDE**
- **Inter-ministerial - legislative texts - Data base operational system of watching the elimination of -**

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## Inter-ministerial commissions and coordination mechanisms....

- POPs Homologation committee for agrar and pharmaceutic products Give a Homologation and take decision; give a user permit at national level. Direction of plants Protection ( Agri Min) Inter- ministerial Give an opinion on homologation request yes  
National Committee for the pharmaceuticals permit release Files study of requests on market release of pharmaceuticals proposed by the laboratories Pharmacies and laboratories management MSPP Inter- sectorial  
Give opinion on AAM requests and propose to the Health Ministry Inter-ministerial coordination Organ to fight drug use Crack down, prevent, control, treat and readapt drug addicted National Police Inter- ministerial yes

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## Inter-ministerial commissions and coordination mechanisms

- Often, the numerous environment management structures create problems concerning strategies and coordination of actions to make it harmonious. In this context, this worry has been eliminated through the existence of the National Environment Action Plan that in fact is a strategic framework for the coordination and harmonization of politics and legislations on environment management ( chemicals included ).

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## End of the diaporama

Thank you very much for your attention

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