



**Pesticides and
Toxic Chemicals
Control Board**

Annual Report 2014



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EXECUTIVE SUMMARY

The Pesticides and Toxic Chemicals Control Board (PTCCB), a semi-autonomous Agency within the Ministry of Agriculture operates under the Pesticides and Toxic Chemicals Control Act 2000 (No. 13 of 2000). Its principle function is the management of pesticides and toxic chemicals with specific focus on the manufacturing, importation, transport, storage, selling, using and advertising of these chemicals in Guyana.

PTCCB is operated by its permanent Secretariat which carries out the mandatory responsibilities and the operational and administrative policies handed down by the Board of Directors.

During the year under review, the PTCCB was involved with a wide range of pertinent activities which were all integrally linked to the principal responsibilities.

The key areas of activity of the PTCCB during the year 2014 were as follows:-

- General Administration
- Inspection and Enforcement
- Registration and Licensing
- Quality Control
- Training
- Internal Capacity Building
- Overseas Participation
- Analytical Testing
- Monitoring and Evaluation
- Public Awareness
- International Cooperation – Conventions and Instruments

Details pertaining to these activities are documented individually in the body of this Annual Report.

This Report demonstrates comprehensively that the PTCCB continued to carry out its mandate, as it had done over the years since its establishment, in a proactive manner in partnership with the Ministry of Agriculture, sister Agencies, and representatives of the Private Sector, Pesticides Stakeholders and relevant overseas based organizations.

Importantly, strong emphasis was placed on interactive sessions with importers, manufacturers, traders, farmers and other end users of chemicals in Guyana. The goal of sound chemicals management for Guyana has been the driving force to a chemicals management plan that is country focused, stakeholder driven and widespread in its target.

The PTCCB remains committed to carrying out its mandatory responsibilities during the year 2015 with specific focus being placed on strengthening chemicals management through (i) Enforcement of Regulations (No. 8 of 2004) and (ii) Providing the necessary infrastructure required for the establishment of appropriate educational, advisory, and extension services for enabling and exercising

adequate control over quality, sale, storage, import, distribution and usage of pesticides, while ensuring that the interest of end-users and importers' rights are well protected.

The Board additionally through the Strategic Approach to International Chemicals Management, the Rotterdam and Stockholm Conventions and in collaboration with other International Chemicals Management Instruments will be meeting the obligations as it relates to a lifecycle approach to chemicals management.

INTRODUCTION

This Report documents the activities of the Pesticides and Toxic Chemicals Control Board (PTCCB) for the year 2014. It highlights the accomplishments and discusses constraints associated with the Board's objectives with respect to activities initiated during the year under review. The Report highlights the tools utilized towards achieving sound chemicals management identify gaps and mechanisms implemented so as to address all aspects of chemicals management in Guyana.

BOARD OF DIRECTORS

The Directorate of the Board was appointed for the periods:

- 1st July, 2013 – 30th June, 2014
- 1st July, 2014 – 30th June, 2015

The membership of the Board for the above-stated periods is as follows:

- Dr. Leslie Munroe – Chairman
- Dr. Chandranauth Ragnauth – Deputy Chairman
- Mr. Khame Sharma– Director
- Ms. Karen Alleyne – Director
- Dr. Dindyal Permaul – Director
- Dr. Ashook Sookdeo (1st July, 2014 – 30th June, 2014).
 - Dr. Sookdeo was replaced by Dr. Shamdeo Persaud.
- Dr. Elizabeth Ramlal (1st July, 2014 – 30th June, 2014).
 - Dr. Ramlal was replaced by Mr. Charles Ogle.
- Dr. Dalglish Joseph – Director
- Mr. Kuldip Ragnauth – Director
- Mr. Rohit Singh – Director

Ms. Trecia David - Registrar of Pesticides and Toxic Chemicals continued to function in the capacity of Secretary to the Board in accordance with the relevant provisions enshrined in the Pesticides and Toxic Chemicals Control Act 2000 (No. 13 of 2000).

Meetings of the Board

Statutory Meetings of the Board were scheduled to be held on the last Wednesday of every month; nine such meetings were held. The punctuality of the Members in attendance at the Meetings was exceptional throughout the year.

Arrangements were in place for the conduct of technical meetings during the period under review as might have been necessary. Technical committees were established to address the following:

- a) Radioactive substances
 - This technical committee was established to examine current management of radioactive material in Guyana throughout its lifecycle and the role of the Board with regards to same. The findings reveal that the Ministry of Health in collaboration with the Environmental Protection Agency currently manages radioactive materials in Guyana. The Board participated in a meeting of key stakeholders to discuss to development of a regulatory instrument for radioactive mechanism.
- b) Fumigation practices in the rice industry
 - The Board in collaboration with the Guyana Rice Development Board and the National Plant Protection Organization examined fumigation practices in Guyana with specific focus on the rice industry. This process has identified specific gaps that are to be address through an inter-agency collaboration in 2015.
- c) Preparation of Guidelines for Aerial Application of Pesticides
 - Draft guidelines for aerial application of pesticides were developed and are currently being finalized for distribution to relevant stakeholders.

Signatories of the Board

The signatories of the Board for the year under review were:

- (1) Chairman of the Board – Dr. Leslie Munroe;
- (2) Deputy Chairman – Dr. Chandranauth Ragunauth
- (3) Director - Dr. Dindyal Permaul; and
- (4) Secretary of the Board – Ms. Trecia David

The order of signatories of the Board remained the same i.e. Chairman and/or Secretary with any other Director.

Responsibilities of the Board

The Board is charged with the responsibilities for making arrangements and providing facilities for controlling the manufacture, importation, transport, storage, selling, using and advertising of pesticides and toxic chemicals in Guyana.

Objectives of the Board

The primary objective of the Board is to fulfill its mandate under the Pesticides and Toxic Chemicals Control Act 2000 (No. 13 of 2000) and its associated Regulations. The Board in an effort to ensure effective and efficient functionality invested in capacity building to allow for the relevant technical expertise to enhance these specific areas.

It was also the Board's objective to develop effective and workable criteria and protocols to be used to achieve the target goals with the minimum displacement of production or trade and to collaborate with the pertinent stakeholders in helping them to achieve their respective and collective economic targets with minimal negative impact to human health and the ecosystem.

The specific objectives of the Board for the year under review were as follows:

- (i) Fulfilling the International Requirement of the Board for the Rotterdam and Stockholm Conventions;
- (ii) Registration and Licensing of Pesticides;
- (iii) Licensing of Vendors;
- (iv) Registration of Pest Control Operators;
- (v) Certification of Pest Control Operators;
- (vi) Pesticides Awareness Week Programs
- (vii) Training and Awareness countrywide;
- (viii) Enforcement activities for sound chemicals management;
- (ix) Stakeholders Training Sessions; and
- (x) Reduction of Illegal Imports and vending of pesticides.
- (xi) Promoting the Sound Management of Chemicals using Guidance Documents from International Instruments such as the Strategic Approach to International Chemicals Management (SAICM) and the International Code of Conduct on Pesticides Management (CODE)

SECRETARIAT OF THE BOARD

Organizational Chart

The organizational chart of the Board contains four divisions: Licensing and Registration, Enforcement and Training, Administration and Analytical Department. The total staff compliment of the Board during the period under review is thirteen (13).

General Administration

The implementation of the policies of the Board is carried out by an adequately staffed Secretariat located at the compound of the National Agricultural Research and Extension Institute, Mon Repos, East Coast Demerara. This Secretariat, which is headed by the Registrar holds responsibility for General Administration and Operations including (i) training and (ii) enforcement of the rules and regulations associated with the manufacture, importation, transport, storage, selling, using and advertising of pesticides and toxic chemicals in Guyana.

Staff Development

Throughout the period under review the Board, in recognition of the need for capacity building towards facilitating the provision of services to farmers and other stakeholders allowed staff to participate in a number of training exercises conducted by other Agencies and International stakeholders (*See Appendix 1*).

ACHIEVEMENTS – 2014

The Pesticides and Toxic Chemicals Control Board’s is pleased to present the major achievements of the Board for the period under review.

1. Registration and Licensing

Pesticides Submitted For Registration

The Board received fifty two (52) applications for registration during the period under review. These products were evaluated to ensure that submissions were in keeping with the Regulation before registration. Phostoxin, with registration number PTCCB/DEG/I/08/001 was de-registered in 2014, in keeping with Regulations registration period of 5 years. In addition, there was no request from the manufacturer/registrant for re-registration.

A total of 293 products were registered at the end of 2014 for import, distribution and use in Guyana. The List of Registered Pesticides for Guyana is updated annually and is printed for free distribution (*see Appendix II*).

The Board issued One thousand, Seven Hundred and Twenty Five (1725) Pesticides and Toxic Chemicals licenses for the period under review. The following table presents a breakdown of all licenses issued for Pesticides and Toxic Chemicals for the period under review. *Appendix III* presents the analysis of all pesticides imported for 2014.

Pesticides and Toxic Chemicals Licenses 2014		
Month	Toxic Chemical	Pesticides
Jan	132	13
Feb	132	4
Mar	123	10
Apr	112	10
May	158	15
Jun	116	15
Jul	129	10
Aug	135	17
Sept	157	17
Oct	142	14
Nov	137	12
Dec	104	11
Total	1577	148

Table 1.0: Breakdown of Pesticides and Toxic Chemicals Licenses 2014

Importers of Pesticides

The Board in keeping with its mandate to raise awareness to all stakeholder groups conducted its annual meeting with all the **Pesticide Importers** in Guyana. The meeting outlined the achievements of the Board for the year 2013 and highlighted the new developments and initiatives in pesticides related matters at the international, regional and local level.

Pest Control Operators Registration

The Board in keeping with the Regulations registered a total of 18 Pest Control Operators for the year under review. Training was also provided to all Pest Control Operators at the Basic and Intermediate Proficiency Levels.

The Board’s annual meeting with all the registered Pest Control Operators (PCOs) outlined the plans of the Board in relation to activities that will benefit the PCOs such as licensing, training and certification. The PCOs were given the opportunity to highlight matters of concern to them in which they emphasized the need for the Board to enforce the regulation to combat the illegal operations by persons in this discipline.

	Pest Control Operators 2014
1	Ali's Construction And Maintenance Services
2	B.D.M.L. Pest Control
3	Door to Door Pest Control
4	International Standard System Incorporated
5	Killet Pest Control
6	Martin Moore D.M. Enterprise
7	Miracle Extermination Services
8	Pablo Pest Control
9	PesPros Pest Control & Hygiene services
10	Pestex Environmental Solutions
11	Rentokil Initial
12	Rid - o - Pes
13	Target Services
14	Terminate Pest Control
15	Terninex Pest Control
16	Termitary & Weed Control
17	X-INSECTS
18	Zenith Pest Control Services Plus

Table 1.1: Registered Pest Control Operators 2014

Vending Premises Licensed 2014

A total of one hundred and seventy nine (179) pesticides vendors were registered to handle, store and distribute pesticides in Guyana. This is in keeping with the Board's mandate in ensuring sound chemicals management in Guyana. Stakeholder meetings and trainings were undertaken during the year in review so as to ensure vendors are knowledgeable and well equipped to work with pesticides. A summary of pesticide vendors can be viewed in **Appendix IV**.

2. Inspection and Enforcement

All registered vending sites were inspected during the year in review and were found to be in compliance with the Pesticides and Toxic Chemicals Control Act 2000. Random Inspections were also conducted in regions 2,3,4,5,6 and 10 on various locations and market places that were identified through intelligence gatherings.

Inspections were also conducted at all operating sites of Pest Control Operators (PCOs). All PCOs were found to be in compliance with the PTCCB Regulations.

Inspection exercises were also carried out at various ports of entry and shipments of pesticides imported into Guyana. These inspections ensured that all pesticides imported are registered for import and use in Guyana.



Pictures 2.0: Inspection of Imported Shipments of Chemicals

The Board acting on intelligence confiscated 26 cartons containing 10 (1kg) canisters of unregistered Aluminium Phosphide each (260 canisters) from a private residence in Houston E.B.D.



Pictures 2.1: Images of confiscated illegal Aluminium Phosphide

“Carbon tablet”, as it is commonly called in Guyana, is a lethal material that releases the highly toxic phosphine gas. This product which is mainly marketed as “Phostoxin” contains “aluminum phosphide” which came into use in the 1950s and is destructive to many storage pests. Phosphine gas is notoriously lethal; it is a fast acting, systemic, and corrosive killer. Any use of this product by householders or anyone not qualified to do so can result in accidental poisoning and death. It is a controlled pesticide that should only be handled by professional pest control operators (PCOs).

Complaints and Investigation

The Board received, investigated and reported on the following complaints of chemicals incidences during the year under review.

Name of Complainant	Address of Complainant	Nature of Complaint
Mrs. Dhanesar	Best Village, Vreed en Hoop, West Coast Demerara	Mrs. Dhanesar, alleged that her brother Mr. Carl Budram sprayed her plants with a pesticide causing them to die off.
Doodnauth Channan Garesh Rohanlall Kawal Lall Zahir Mohamed Ramesh Hansraj Hemchand Kaidnauth Shailendra Shamdat Hardeo Ramlakhan Rakesh Budhoo Rajkumar Lokhai	1651 Malali, CWC and Baba Grant, CWC	Farmers alleged that their crops sustained herbicide damage when the Guyana Sugar Corporation (GuySuCo) was conducting aerial application of pesticides to sugar cane in the Skeldon (SWR) cultivation on the 30 th June, 2014.
Mr. Baichu Jaimini Mr. Harilall Taigenarine	Malali Sideline, Crabwood Creek, Berbice	The Pesticides & Toxic Chemicals Control Board (PTCCB) received a communication from the Spring lands Police requesting assistance with their investigation of an alleged pesticide misuse incident
Mr. Lakeram Sawarat Mr. Mokesh Sawarat	South La Bompey Cane Grove E.C.D	The Pesticides & Toxic Chemicals Control Board (PTCCB) received a report from the Cane Grove Police requesting assistance with their investigation of an alleged pesticide misuse incident.

Table 2.0: List of Complaints and Investigation 2014

3. Training and Awareness Programmes

Symposium on International Conventions and Chemical Agreements

The PTCCB launched its public awareness programme in 2014 with a symposium on International Conventions and Instruments in chemicals management at the De Impeccable Banquet Hall, Georgetown. This symposium was geared at sensitizing technical personnel of various Ministries and NGO's with the objectives being:

1. Raising awareness about the various International Chemical Agreements
2. Highlighting the impact of these Agreements on Chemicals management at the National Level
3. Highlighting specific goals achieved at the national level via International Chemical Agreements
4. Enhancing stakeholder participation and information sharing mechanisms for chemicals management in Guyana.

The Symposium facilitated presentations on the following Chemical Agreements:

- a. Stockholm Convention
- b. Rotterdam Convention
- c. Strategic Approach to International Chemicals Management
- d. Coordinating Group of Pesticides Control Board
- e. Basel Convention
- f. Montreal Protocol

The Symposium was executed in collaboration with other agencies and Ministries, as part of the Board strategy to bolster stakeholder, inter-agency and inter-ministerial participation in its awareness strategy.



Picture 3.0: Participants and Presenters at the Symposium on International Chemical Agreements

Safety and Health in the Use of Chemicals at Work

The PTCCB actively participated at the Occupational Safety and Health Ceremony and Symposium hosted by the Ministry of Labour. The Chairman, Registrar and Senior Inspector of the Board engaged in a panel discussion with participants at the Symposium on the Safety and Health in the Use of Chemicals at Work. The Board also delivered a Power Point presentation on chemicals and chemicals management in Guyana.

Safe Storage of Pesticides

The Board launched a pilot project aimed at raising awareness on proper pesticides storage in Cane Grove, Mahaica. The event commenced the programme for a countrywide distribution of pesticide storage cabinet to farmers using a lottery system for distribution. The aim of this exercise was to promote proper and safe storage of pesticides with the view of farmers throughout the country adopting this practice. A total of 150 cabinets were distributed to farmers in regions 2,3,4,5,6 and 10.



Picture 3.1: Launch of Pesticides Storage Cabinet Distribution Program



Picture 3.2: Training and Distribution of Storage Cabinets in the Regions

Pest Control Operations Training Programmes

The Basic Proficiency Training programme for Commercial Pest Control Operators now in its third year saw the certification of 28 pest control applicators for the urban and domestic pest control. The aim of the training was to impart knowledge and education to pest control applicators in conducting pest control operations with the ultimate goal of solving the pest's problem and at the same time minimize the negative impacts to human health and the environment cause by pesticides.

The Intermediate Proficiency Training programme for Commercial Pest Control Operators was held for the first time in 2014. Participants qualified for this level of the training, had to have been successful at basic proficiency examination with a minimum of 70%. The training lasted for five days and participants were exposed to more in depth concepts in the field of urban pest management. The participants were also exposed to practical in field exercises. Sixteen of the 23 persons registered for the course graduated from the intermediate program. A graduating ceremony was held for all those who were successful in the Basic and Intermediate Proficiency Programs.



Picture 3.3: Hon. Dr. Leslie Ramsammy, Minister of Agriculture delivering charge to the Graduates

The Minister of Agriculture, Dr. Leslie Ramsammy, gave the key note address and urged the graduates to be proud of their achievement and not to become complacent in their trade but rather to strive to take themselves and the pest control industry to higher levels.



Picture 3.4: Pest Control Operators Graduation Ceremony

Education Program for Vendors of Pesticides and Toxic Chemicals

The PTCCB commenced its education program for vendors during the year in review. This program is a two year program and will be completed in 2015. The training sessions focused on sensitizing vendors on the responsible use and handling of pesticides, the proper transport, storage and disposal of pesticides and the importance of their role in advising farmers on products and product selection.

The course outline is as follows:

1. Introduction to Pesticides
2. Pesticides Legislation in Guyana
3. Pesticides labeling
4. Pesticides and Human Health and Environment Safety
5. Transportation, Display. Storage and Disposal
6. Pest Management
7. Pesticides Application
8. Emergency Response
9. Professionalism

The 2014 four areas of the course outline were delivered to all licensed vendors and their employees countrywide.



Picture 3.5: Vendors Education Program, Region 3



Picture 3.6: Vendors Education Program, Region 2



Picture 3.7: Vendors Education Program, Region 6

Fumigation Practices in Guyana

The practice of fumigation of rice and lumber using aluminium phosphide was examined by the Board to ensure proper use of the restricted use pesticide. As such meetings were convened with rice millers and rice exporters in Regions 2,3,4,5 and 6. The meetings focused on the way forward for fumigation in the rice industry and the accessibility and handling of aluminium phosphide tablets. The meetings agreed that only registered Pest Control Operators (PCOs) will be allowed to have access to the aluminium phosphide tablets and only PCOs shall be authorized to conduct fumigation exercises commencing in 2015. The meetings also brought out the need for pesticides awareness training for millers and rice exporters, which the PTCCB acceded to facilitate.

The Board also examined the capabilities of Pest Control Operators (PCOs) in executing fumigation exercises properly and effectively. The Chairman of the PTCCB, Dr. Leslie Munroe, highlighted the importance of safety when fumigation exercises are being conducted. It was identified that specialized fumigation training is needed for all Pest Control Operators. This shall be provided by the Board and conducted in early 2015.

Service Providers Training

The Pesticides and Toxic Chemicals Control Board conducted a three day training seminar for agriculture extension staff and other agricultural service providers. The seminar was held at the Regency Hotel and saw participants coming from all the regions in Guyana. The participants were exposed to a wide range of topics such as; safe use and handling of pesticides, transport, storage and disposal of pesticides, proper protective equipment, pesticides contamination, the tracer kit technology, labeling, pictograms, colour bands, human and environment exposure to pesticides, pesticide formulations, spray equipment care and management, pesticides mixing and calibration, integrated insect management and pest and disease management.

The specific objectives of this programme were as follows:

- To emphasize the risks associated with the indiscriminate use, storage, and handling of pesticides.
- To emphasize the dangers associated with prolonged unprotected exposure to pesticides.
- To emphasize the environmental and occupational hazards associated with the misuse of pesticides.
- To highlight Integrated Pest Management Strategies
- To highlight Pest and Disease Management Practices

Training was conducted through technical sessions, field practical demonstrations and utilization of microscopes and magnifiers for pest identification sessions.

Each Participant received the following:

1. USB Storage Drive uploaded with all PowerPoint presentations
2. Bains and Boodhoo Pesticides Booklet
3. Service Providers Training Manual (developed specifically for participants)
4. Pesticides Newsletter
5. Brochures on Chemical Storage, Disposal, Labelling, Application Techniques
6. Booklet of Registered Pesticides for Guyana

These were intended to further enhance the technical capacities of the Service Providers and to make available to them appropriate tools to enhance their ability to conduct activities for farmers.



Picture 3.8: Opening Ceremony Service Providers Training



Picture 3.9: Technical Sessions Delivery



Picture 3.10: Group Discussions



Picture 3.11: Practical Exercises on Storage and Chemical Spill Management



Picture 3.12: Practical Exercises on Storage and Chemical Spill Management

Customs and Trade Administration and Chemicals Management

The Customs and Trade Administration of the Guyana Revenue Authority are an integral part of chemicals management with specific focus on transboundary movement of chemicals. The Board conducted pesticides awareness training for customs brokers from various ports of entry. The training focused on highlighting the importance of sound chemicals management, and also pointed out to the customs brokers the importance of their role in the process. In addition, information was presented on registered pesticides and those that are prohibited for use.

Training and Awareness for Farmers and Farm workers

A total of one thousand and twenty one (1021) farmers and farm workers were trained during the year under review.

The participants were trained on the following topics:

- Management of Pesticides in Guyana;
- Pesticides Act and Regulations;
- Benefits and Risks of Pesticides Use;
- Pesticides Classification;
- Pesticides Labeling;
- Safe Handling and Correct Use of Pesticides;
- Classification of Pest;
- Pest Control Measures and Practices;
- Dose Rates and Recommendations;
- MRLs; and
- Storage and Disposal of Pesticides.
- Safe application of household use pesticides

Public Awareness Materials were developed for distribution throughout the year such as newsletters, conversions handbooks, brochures on safety, storage and disposal of empty containers. Pamphlets for farmers, farm workers, pesticide users, pest control operators and general public. Participants of all training and awareness programmes received:

- Measuring cups
- PPE: gloves, respirators
- Farmers Conversion Handbook
- Newsletter
- Pamphlets on storage and use practices

Public awareness advisory messages on the prescribed use of aluminium phosphide tablets were done to highlight the dangers and its prohibited use.

Month	Target Group	# of Participants	Remarks
January	Farmers	80	Safe use and handling of Pesticides
February	Farmers	113	Safe use and handling of Pesticides
March	Farmers	90	Safe use and handling of Pesticides
April	Farmers	75	Safe use and handling of Pesticides
May	Farmers	183	Safe use and handling of Pesticides
June	Farmers	275	Safe use and handling of Pesticides
September - October	Farmers	205	Safe use and handling of Pesticides
Total		1021	

Table 4.0: Training Programme Completed 2014

Agriculture Research Conference

The PTCCB participated in the Agriculture Research Conference (ARC) by attending its technical sessions and mounting a display featuring the dangers of using higher pesticide dosages than that recommended, and harvesting crops sprayed with pesticides before the post spray interval would have elapsed.

Pesticides Awareness Week, 2014

Pesticides Awareness Week was observed from the 26th October to 1st November, 2014 under the theme **“Buy as required use before they expire”**. The Pesticides Board held a series of activities to commemorate the week. A message from the Minister launched the week of activities along with radio messages, television programmes, appearances on talk shows, infomercials and a three day training conference for agriculture extension staff and service providers.



5. Pesticides and Toxic Chemicals Laboratory

Formulated Laboratory

Qualitative analyses were successfully done on three formulations, viz Asulam, Hexazinone, and Metsulfuron methyl. Using CIPAC methods of analysis, 26, 23 and 18 successive runs respectively were done on the pesticide formulations to determine their percentage active ingredient

- a) Asulam
 - A total of 26 successive analytical runs were done to determine percentage active ingredient content of the product using CIPAC method for analysis.
- b) Hexazinone
 - A total of 23 successive analytical runs were done to determine percentage active ingredient content of the product using CIPAC method for analysis.
- c) Metsulfuron- methyl
 - A total of 18 successive analytical runs were done to determine percentage active ingredient content of the product using CIPAC method for analysis.

Residual Laboratory

The Residue Division carried out fifty-one (51) analyses on various samples both for Secretariat purposes and in-house capacity building in residue analysis.

Samples analyzed for 2,4 D residues were inconclusive since the pesticides was undetectable via GC-MS due to very low concentrations at time of analysis.

The laboratory was successful in analysis of several vegetables. These samples were spiked using pesticide standards. The methodology used resulted in detection of pesticides in the samples.

- a) Pak-Choi
- b) Cucumber
- c) Squash
- d) Ochro (Leaves)
- e) Plantain (Leaves)
- f) Green Beans
- g) Red Beans (Leaves)
- h) Papaw (Leaves)
- i) Carilla (Leaves)
- j) Bora

Fruits:

- a) Tomatoes
- b) Jamoon

Full scan methods were used to generate residue profiles for the samples. For each sample, triplicate analyses were done.

The laboratory explored analyzing other sample matrices via a modified AOAC Method 2007.1, such as rice, soil and meat. These commodities were all commercially available. These matrices caused some difficulty in analyzing due some limitations in the sample preparation.

The laboratory continues to work on residue analysis for the following active ingredients in fruits and vegetables:

- 1 Methomyl
- 2 Dichlorvos (DDVP)
- 3 Methamidophos
- 4 Trifluralin
- 5 Atrazine
- 6 Chlorothalonil
- 7 Chlorpyrifos methyl
- 8 Linuron
- 9 Chlorpyrifos
- 10 Carbaryl (sevin)
- 11 Cyprodinil
- 12 Procymidone
- 13 Tolyfluanid
- 14 Imazalil
- 15 Thiabendazole
- 16 2, 4' -DDD
- 17 Kresoxim methyl
- 18 Pymetrozine
- 19 Ethion
- 20 Tebuconazole
- 21 Bifenthrin
- 22 Endosulfan sulphate
- 23 Lambda-Cyhalothrin
- 24 Cypermethrin
- 25 Alpha-cypermethrin

Capacity Building for Laboratory Personnel

Staff received training on Pesticide Residue Analysis in food, instructed by Dr Evaldo de Armas which allowed staff to further their knowledge of the data processing parameters with respect to GC-MS instrumentation. The laboratory began networking with other residue labs regionally with the participation in the “Pesticides residues workshop” facilitated by the EU and hosted by the Dominican Republic.

Staff received Quality Management System (QMS) Training on: Understanding the Requirements of ISO/IEC 17025 Standard, Root Cause Analysis, Data Analysis and Laboratory Safety Requirements (GYS 235) hence, staff will contribute positively in establishing a QMS for the laboratory.

ACCOUNTS 2014

The Accounts for the Board for 2014 will be submitted to the Audit Office in keeping with Boards work plan. The Auditor General's Office shall examine the Board's Financial Statement for 2014, as required under Section 41 of the Pesticides and Toxic Chemicals Control Act and the Financial Management Act, and validated that the Financial Statements reflected fairly in all materials respects, that the financial position of the Board as at 31 December 2014.

BUDGET 2014

The proposed budget of the Board for the year 2015 reflects a total expenditure of One hundred and thirty million, five hundred and ninety three thousand dollars (\$130,593.00). This expenditure will be used for delivery of the Boards program and daily operations of the agency.

WEBSITE

The Board's Website, <http://www.ptccb.org.gy> was continuously updated during the year to make it more modern and user friendly and to ensure that all services of the Board are available to the public. The Board continued to use the website as a means of spreading messages and providing relevant information for the general public.

KEY ISSUES AND CHALLENGES

The key issues and challenges facing the Board continue to be the implementation of the Pesticides and Toxic Chemicals Regulations with respect to the following:

Secretariat of the Board

- **Infrastructure of the Secretariat/ Administration** - The need for additional staffing is important to the execution of the Board's mandate. This is integral to management of toxic chemicals, restricted use pesticides, current chemical practices etc. However, the Board is constraint in engaging additional personnel due to lack of accommodation to house same.

Pesticides and Toxic Chemicals Laboratory

- **Supply of consumables** - The process for the supply of consumables to the laboratory has proven to be very tedious, expensive and time consuming.
- **Infrastructure of PTCCB Laboratory** - The current infrastructure is a major constraint for the certification of the Boards laboratory. In addition it is recommended that the formulated and residual laboratories be separate to avoided contamination and quality of results.
- **Equipment** - Some active ingredients could not have been detected as some are undetectable via GC-MS while due to their very low concentrations others remained undetectable. Finding compatibility of standard test methods (CIPAC and AOAC) with equipment in time efficient manner.

APPENDICES

APPENDIX 1:

CAPACITY BUILDING & STAFF DEVELOPMENT 2014

Pesticides and Toxic Chemicals Control Board

Name of Staff	Meeting/Workshop/Training Attended
Ms. Trecia David	Antigua and Barbuda: Nineteenth meeting on the coordinating group of Pesticides Control Board of the Caribbean – June 2 – 6, 2014
Ms. Reshmi Bissessar Ms. Aliecia Hall	Guyana National Bureau of Standards: Understanding the Requirements of the ISO/IEC 17025 Standard – June 03 – 05, 2014
Ms. Sophia Khan Ms. Reshmi Bissessar Ms. Aliecia Hall Mr. Mahendra Ram	Guyana National Bureau of Standards: Root Cause Analysis – June 23 – 25, 2014
Mr. Morris Solomon Ms. Reshmi Bissessar	Guyana National Bureau of Standards: Data Analysis – June 26 – 27, 2014
Mr. M. Ramsammy	Brazil: Sub-Regional Workshop for South American Countries in Support for the ratification and early implementation of the Minamata convention on Mercury – September 2 – 4, 2014
Mr. Morris Solomon Mr. M. Ramsammy	Santo Domingo, Dominican Republic: Regional workshop on Pesticides – November 17 – 20, 2014
Ms. Rayanna Whyte Ms. Reshmi Bissessar Ms. Aliecia Hall	Guyana National Bureau of Standards: Safety Management for Laboratories – December 03-05, 2014
Ms. Trecia David	Switzerland: Strategic approach to international chemicals management (SAICM):second meeting of the open-ended working group (OEWG) of the international conference on chemicals management – December 15 - 17, 2014

**APPENDIX II:
 List of Registered Pesticides**

Pesticides Registration List			
Name of Chemicals	Type	Common Name	Registration Types
Registrant	Syngenta		
Importer/Distributor	AGROIN, 188 Waterloo St. S/Cburg Georgetown 592 665 2721 592 231 8720		
Actara 25WG	Insecticide	Thiamethoxam	General Use
Actellic 50Ec	Insecticide	Pirimiphos methyl	General Use
Cruiser 350FS	Insecticide	Thiamethoxam	General Use
Demand 2.5CS	Insecticide	Thiamethoxam & Lambda Cyhalothrin	General Use
Demon MaX	Insecticide	Cypermethrin	General Use
Engeo	Insecticide	Thiamethoxam & Lambda Cyhalothrin	General Use
Match 50EC	Insecticide	Lufenuron	General Use
Ninja 5EC	Insecticide	Lambda Cyhalothrin	General Use
Pegasus 500Sc	Insecticide	Diafenthiuron	General Use
Trigard 75WP	Insecticide	Cyromazine	General Use
Vertimec 1.8EC	Insecticide	Abamectin	General Use
Dual Gold 960EC	Herbicide	S-Metolachlor	General Use
Fusilade	Herbicide	Fluazifop-p-butyl	General Use
Gramoxone Super	Herbicide	Paraquat Dichloride	General Use
Igran 500SC	Herbicide	Terbutryn	General Use
Krismat	Herbicide	Ametryn	General Use
Reglone	Herbicide	Diquat Dibromide	General Use
Touchdown IQ	Herbicide	Glyphosate	General Use
Amistar 50WG	Fungicide	Azoxystrobin	General Use
Daconil 720Sc	Fungicide	Chlorothalonil	General Use
Klerat Wax Blocks	Rodenticide	Brodifacoum	General Use
Registrant	Biesterfeld Chemical Company		

Importer/Distributor	AINLIM Ruimveldt 5 Georgetown 227 5806		
Alpha Cypermethrin 5Ec	Insecticide	Alpha Cypermethrin	General Use
Diumax 80WDG	Herbicide	Diuron	General Use
Glifosan Super 48SC	Herbicide	Glyphosate	General Use
Metolachlor 960g/l	Herbicide	S-Metolachlor	General Use
Paraquat	Herbicide	Paraquat Dichloride	General Use

Registrant	Bayer CropScience		
Importer/Distributor	AINLIM Ruimveldt 5 Georgetown 227 5806		
Larvin 37.5 SC	Insecticide	Thiodicarb	General Use
Movento 150D	Insecticide	Spirotetramate	General Use
Murella Delta 1900D	Insecticide	Imidacloprid & Deltamethrin	General Use
Sevin 85WP	Insecticide	Carbaryl	General Use
Sunato 54FS	Insecticide	Imidacloprid & Fipronil	General Use
Yunta	Insecticide	Imidacloprid+Tebuconazole	General Use
Alion 50Sc	Herbicide	Indaziflam	General Use
Estallion 13.75WG	Herbicide	Ethoxysulfuron & Indosulfurom methyl	General Use
Merlin 75WG	Herbicide	Isoxaflutole	General Use
Merlin Total 60 SC	Herbicide	Indaziflam+Isoxaflutole	General Use
Raft 40SC	Herbicide	Oxadiargyl	General Use
Ronstar 38 SC	Herbicide	Oxadiazon	General Use
Starice 6,9	Herbicide	Fenoxaprop-p-ethyl	General Use
Antracol 70WP	Fungicide	Propineb	General Use
Impulse 80EC	Fungicide	Spiroxamine	General Use
Infinito 68,75 SC	Fungicide	Propamocarb+Fluopicolide	General Use
Nativo 75 WG	Fungicide	Trifloxystrobin+Tebuconazole	General Use
Siganex 60SC	Fungicide	Pyrimethanil	General Use
Silvacur Combi 30EC	Fungicide	Tebuconazole & Triadimenol	General Use
Stratego 250EC	Fungicide	Trifloxystrobin & Propiconazole	General Use
Verita 71.1 WG	Fungicide	Fenamidone & Fosetyl-al	General Use
Imbirex CR80SC	Emulsifier	Ethoxylated Fatty Alcohol	General Use
Registrant	Excel Ag. Corporation		

Importer/Distributor	AINLIM Ruimveldt 5 Georgetown 227 5806		
Agree 50WP	Insecticide	Bacillus Thuringiensis	General Use
Aval 20%SP	Insecticide	Acetamiprid	General Use
Aramite	Organic Insecticide	40 % Cinnamon Oil & 10% Clove Oil	General Use
Bactrex	Organic Insecticide	40 % Cinnamon Oil & 10% Clove Oil	General Use
Flip 800DF	Insecticide	Fipronil	General Use
Swift Gel	Insecticide	Fipronil	General Use
Therminex 2.5%SC	Insecticide	Fipronil	General Use
Agil 100EC	Herbicide	Propaquizafop	General Use
Assex 40%SL	Herbicide	Asulam	General Use
Assex 80%DF	Herbicide	Asulam	General Use
Fifa 20%SC	Herbicide	Glufosinate ammonium	General Use
Cyclops	Organic Fungicide	16 % Cinnamon Oil & 4 % Clove Oil	General Use
Disease Destroyer	Organic Fungicide	4 % Cinnamon Oil & 1% Clove Oil	General Use
Big Stomper	Organic Acaricide	10 % Cinnamon Oil & 2.5% Clove Oil	General Use
Registrant	Tagros Chemicals India Ltd.		
Importer/Distributor	AINLIM Ruimveldt 5 Georgetown 227 5806		
Cypertag 100Ec	Insecticide	Cypermethrin	General Use
Cypertag 250EC	Insecticide	Cypermethrin	General Use
Delros 2.5EC	Insecticide	Deltamethrin	General Use
Pali 25WT	Insecticide	Deltamethrin	General Use
Rubi 50Ec	Insecticide	Alpha Cypermethrin	General Use
Registrant	Insecticidas Internacionales		
Importer/Distributor	AINLIM Ruimveldt 5 Georgetown 227 5806		
Cyper 25EC	Insecticide	Cypermethrin	General Use

Danol 60Ec	Insecticide	Diazinon	General Use
Inimectin	Insecticide	Avermectin	General Use
Inisan 60SC	Insecticide	Monocrotophos	Restricted Use
Inithion 57	Insecticide	Malathion	General Use
Sofion 200Sc	Insecticide	Fipronil	General Use
Torpedo 350EC	Insecticide	Chlorpyrifos & Cypermethrin	General Use
Tropel 40EC	Insecticide	Triazophos	General Use
Aminex 720	Herbicide	2,4 D Amine	General Use
Batazo 80PM	Herbicide	Diuron	General Use
Designee 40Sc	Herbicide	Bispyribac Sodium	General Use
Glyfosan	Herbicide	Glyphosate	General Use
Mentor EC	Herbicide	Fenoxaprop-p-ethyl	General Use
Propanol 360EC	Herbicide	Propanil	General Use
Registrant	RiceCo. Ltd		
Importer/Distributor	AINLIM Ruimveldt 5 Georgetown 227 5806		
Spada 60DF	Herbicide	Propanil	General Use
Registrant	Agro Care Chemicals		
Importer/Distributor	Caribbean Chemicals Ltd 45 Croal Street Stabroek, Georgetown 225 4178		
Abamectin 1.8% EC	Insecticide	Abamectin	General Use
Admare -2F	Insecticide	Imidacloprid	General Use
Aluminium Phosphide 57%	Fumigant/Insecticide	Aluminium Phosphide	Restricted Use
Caprid 20SL	Insecticide	Acetamiprid	General Use
Chlorpyrifos TC	Insecticide	Chlorpyrifos	General Use
Diazinon 60EC	Insecticide	Diazinon	General Use
Fastak 5EC	Insecticide	Alpha Cypermethrin	General Use
Fen-donna	Insecticide	Alpha Cypermethrin	General Use
Frip 20SC	Insecticide	Fipronil	General Use
Karatax 5%	Insecticide	Lambda Cyhalothrin	General Use
Leafguard	Insecticide	Cyromazine	General Use
Line-8	Insecticide	Methomyl	General Use
Mal-shon	Insecticide	Malathion	General Use
Pronto 70% WDG	Insecticide	Imidacloprid	General Use
Sev7en 85%	Insecticide	Carbaryl	General Use
Tick-Off	Insecticide	Chlorfenvinphos	General Use

Triazophos 40EC	Insecticide	Triazophos	General Use
VDY-8	Insecticide	Oxamyl	General Use
AgroStar	Herbicide	Oxa-diazinon	General Use
Asucare	Herbicide	Asulam	General Use
Carista 20SL	Herbicide	Glufosinate Ammonium	General Use
Carzone 75 DF	Herbicide	Metribuzin	General Use
Diucare	Herbicide	Diuron	General Use
Fluazifop-p-butyl	Herbicide	Fluazifop-p-butyl	General Use
Flucare	Herbicide	Fluroxypyr Methyl	General Use
Glyphosate 48%	Herbicide	Glyphosate	General Use
Hexcare	Herbicide	Hexazinone	General Use
Imazacare	Herbicide	Imazapyr	General Use
Isoxacare 75WDG	Herbicide	Isoxaflutole	General Use
Metsulfuron Methyl 60%WDG	Herbicide	Metsulfuron Methyl	General Use
Mixturecare	Herbicide	Trifloxysulfuron Sodium & Ametryn	General Use
Nomeny 400SC	Herbicide	Bispyribac Sodium	General Use
Nu-Nominy	Herbicide	Bispyribac Sodium	General Use
Superxone	Herbicide	Paraquat Dichloride	General Use
Terbutryn 500g/l FW	Herbicide	Terbutryn	General Use
Weedkiller D7	Herbicide	2,4 D	General Use
2,4 D Pikcare	Herbicide	Picloram & 2,4 D Amine	General Use
Brave-O	Fungicide	Chlorothalonil	General Use
Carbendazim 50%SC	Fungicide	Carbendazim	General Use
Coback 77% WP	Fungicide	Copper Hydroxide	General Use
Control Flowable 50SC	Fungicide	Chlorotalonil	General Use
Koppercide	Fungicide	Copper Hydroxide (53.8% DF)	General Use
Ryso-500	Fungicide	Tolclofos methyl	General Use
Escare	Growth Regulator	Ethephon	General Use
Ethephon	Growth Regulator	Ethephon	General Use
Fentin Acetate 60%WP	Molluscicide	Fentin Acetate	General Use
Registrant	Atul Chemical Ltd.		
Importer/Distributor	Caribbean Chemicals Ltd 45 Croal Street Stabroek, Georgetown 225 4178		
Imidacloprid 17.8%	Insecticide	Imidacloprid	General Use
Indoxacarb 15%SC	Insecticide	Indoxacarb	General Use

Lambda Cyhalothrin 5%EC	Insecticide	Lambda Cyhalothrin	General Use
Metsulfuron Methyl 60WDG	Herbicide	Metsulfuron Methyl	General Use
2,4 D Amine Salt 720g/l	Herbicide	2, 4 D	General Use
Registrant	DuPont Chemical Company		
Importer/Distributor	<p style="text-align: center;">Caribbean Chemicals Ltd 45 Croal Street Stabroek, Georgetown 225 4178</p>		
Lannate L	Insecticide	Methomyl	General Use
Lannate LV	Insecticide	Methomyl	General Use
Vydate L	Insecticide	Oxamyl	General Use
Karmex DF	Herbicide	Diuron	General Use
Velpar DF 25%	Herbicide	Hexazinone	General Use
Velpar DF 75%	Herbicide	Hexazinone	General Use
Kocide 101	Fungicide	Copper Hydroxide	General Use
Mankocide	Fungicide	Mancozeb & Copper Hydroxide	General Use
Manzate 75DF	Fungicide	Mancozeb	General Use
Registrant	BASF Chemical Company		
Importer/Distributor	<p style="text-align: center;">Caribbean Chemicals Ltd 45 Croal Street Stabroek, Georgetown 225 4178</p>		
Pirate 24Sc	Insecticide	Chlorfenapyr	General Use
Arsenal 24Sc	Herbicide	Imazapyr	General Use
Herbadox 40Ec	Herbicide	Pendimethalin	General Use
Acrobat MZ 69WP	Fungicide	Mancozeb & Dimethomorph	General Use
Bellis 38WG	Fungicide	Pyraclostrobin & Boscalid	General Use
Storm 0.005BB	Rodenticide	Brodifacoum	General Use
Registrant	Kenvos Biotech		
Importer/Distributor	<p style="text-align: center;">Channizam Agro Chemicals Lot 151 Thomas Street, Kitty, Georgetown 232 0239/650-0679</p>		
Admajor 20SC	Insecticide	Imidacloprid	General Use
Bestak	Insecticide	Alpha Cypermethrin	General Use
Capri	Insecticide	Acetamiprid	General Use
Diazinon 60EC	Insecticide	Diazinon	General Use
Fas-Attac	Insecticide	Alpha Cypermethrin	General Use

Fenitrothion 50EC	Insecticide	Fenitrothion	General Use
Fip	Insecticide	Fipronil	General Use
Hyparkill 25Ec	Insecticide	Cypermethrin	General Use
Kenvodan 50SP	Insecticide	Cartap Hydrochloride	General Use
Kenvos Abamectin	Insecticide	Abamectin	General Use
Kenvos Fipronil	Insecticide	Fipronil	General Use
Malathion 57EC	Insecticide	Malathion	General Use
Prontax 70WDG	Insecticide	Imidacloprid	General Use
Prontax 70WP	Insecticide	Imidacloprid	General Use
Seven Powder	Insecticide	Carbaryl	General Use
Terminator	Insecticide	Emamectin Benzoate	General Use
Trogaphos 40EC	Insecticide	Triazophos	General Use
Turpedo	Insecticide	Chlorpyrifos & Cypermethrin	General Use
Vi-Date	Insecticide	Oxamyl	General Use
Cutlass	Herbicide	Glyphosate	General Use
Diuron 80DF	Herbicide	Diuron	General Use
Diuron 80WP	Herbicide	Diuron	General Use
Duckweed Killa 60WDG	Herbicide	Metsulfuron Methyl	General Use
Farmixone	Herbicide	Paraquat Dichloride	General Use
Furrow	Herbicide	Fluazifop-p-butyl	General Use
Fus-Zee-Row 10EC	Herbicide	Fenoxaprop-p-ethyl	General Use
Karazone	Herbicide	Metribuzin	General Use
Kenvos Ametryne + Atrazine	Herbicide	Ametryne + Atrazine	General Use
Nomina 40%WP	Herbicide	Bispyribac Sodium	General Use
Runstar	Herbicide	Oxa-diazinon	General Use
2,4 D Amine Salt 720g/l SL	Herbicide	2,4 D Amine	General Use
Big Ben 50SC	Fungicide	Carbendazim	General Use
Super Blast	Fungicide	Isoprothiolane	General Use
Crekete Powder	Molluscide	Fentin Acetate	General Use
Ethephon 48%SL	Plant Growth Regulator	Ethephon	General Use
Registrant	Shandong Qiaochang Chemical LTD		
Importer/Distributor	Chemical King, N. Kumar & J. Kumar Lot 150- No.58 Village Corentyne, Berbice 338-1272		
ALPHA MAX 10%EC	Insecticide	Alpha Cypermethrin 10%EC	General Use
FLIP MAX	Insecticide	Fipronil	General Use

2,4-D AMINE SUPER WEED KILLER	Herbicide	2,4-D Dichloro Phenoxyacetic acid	General Use
GLYPHOMAX	Herbicide	Glyphosate	General Use
GRAMAX QUICK ACT	Herbicide	Paraquat Dichloride	General Use
Registrant	Jiahui Chemicals Co. Ltd		
Importer/Distributor	Countryside Agri. 39 New Road Vreed En Hoop 263 - 5723, 623 - 9694		
super admajor	Insecticide	Imidacloprid	General Use
Fly Bait	Insecticide	Azametifos	General Use
Karatex	Insecticide	Lambda Cyhalothrin	General Use
New Abamectin	Insecticide	Abamectin	General Use
New Bestac	Insecticide	Alpha Cypermethrin	General Use
Regenil	Insecticide	Fipronil	General Use
Super Capre 25SL	Insecticide	Acetamiprid	General Use
Super-Date L	Insecticide	Oxamyl	General Use
Super Diazinon	Insecticide	Diazinon	General Use
Super Fenitrothion 50% EC	Insecticide	Fenitrothion	General Use
Super Fip	Insecticide	Fipronil	General Use
Super Kill 25EC	Insecticide	Cypermethrin	General Use
Super Malathion	Insecticide	Malathion	General Use
Super Nate LV	Insecticide	Methomyl	General Use
Super Prontax 70WDG	Insecticide	Imidacloprid	General Use
Super Tac	Insecticide	Alpha Cypermethrin	General Use
Tornado 350EC	Insecticide	Chlorpyrifos & Cypermethrin	General Use
Termite Killer	Termiticide	Chlorpyrifos	General Use
Caromex DF	Herbicide	Diuron	General Use
Caromex WP	Herbicide	Diuron	General Use
Fusirore	Herbicide	Fluazifop-p-butyl	General Use
Glyfo-kill	Herbicide	Glyphosate	General Use
Herbixzone	Herbicide	Paraquat Dichloride	General Use
Nomine	Herbicide	Bispyribac Sodium	General Use
Super Duckweed - 2X	Herbicide	Metsulfuron Methyl	General Use
Super Karazone	Herbicide	Metribuzin	General Use
Super 2-4-D 720SL	Herbicide	2,4 D Amine Salt	General Use
Droxide	Fungicide	Cupric Hydroxide	General Use
Fuge-1	Fungicide	Isoprothiolane	General Use
Karbendazim	Fungicide	Carbendazim	General Use

Super Ethephon	Plant Growth Regulator	Ethephon	General Use
Rat Bait	Rodenticide	Brodifacoum	General Use
Registrant	King Quenson Industry Group Ltd of China.		
Importer/Distributor	Deonarine Ramgobin, Guyana Pet Supplies 44 Robb Street Georgetown 227-1609		
Ground-Up	Herbicide	Glyphosate	General Use
Registrant	ISKO Company Limited		
Importer/Distributor	Distribution Services Limited (DSL) 38 Industrial Site, Ruimveldt, Georgetown 227-8888		
Protox Aerosols	Insecticide	D-Allethrin	General Use
Protox Mosquito Coils	Insecticide	D-Allethrin	General Use
Registrant	Bryden pi.		
Importer/Distributor	Distribution Services Limited (DSL) 38 Industrial Site, Ruimveldt, Georgetown 227-8888		
Protox Protect Aerosol	Insecticide	Prallethrin, Imipothrin, Cyphenothrin-S	Household Use
Registrant	FlagChem International Co. Ltd.		
Importer/Distributor	FCT Technologies Inc. Bar Street, Kitty Greater Georgetown 225 8544		
FlagAlpha	Insecticide	Alpha Cypermethrin	General Use
FlagLambdac	Insecticide	Lambda Cyhalothrin	General Use
FlagLam	Herbicide	Asulam	General Use
Flagpara 24% SL	Herbicide	Paraquat Dichloride	General Use
FlagSate	Herbicide	Glyphosate (12% surfactant)	General Use
S-FlagSate	Herbicide	Glyphosate (15% surfactant)	General Use
FlagStar	Herbicide	2,4 D Amine	General Use
Flagtriame	Herbicide	Trifloxysulfuron Sodium + Ametryn	General Use
FlagTryn	Herbicide	Terbutryn	General Use
FLagUron	Herbicide	Diuron	General Use
FlagZeb	Fungicide	Mancozeb	General Use

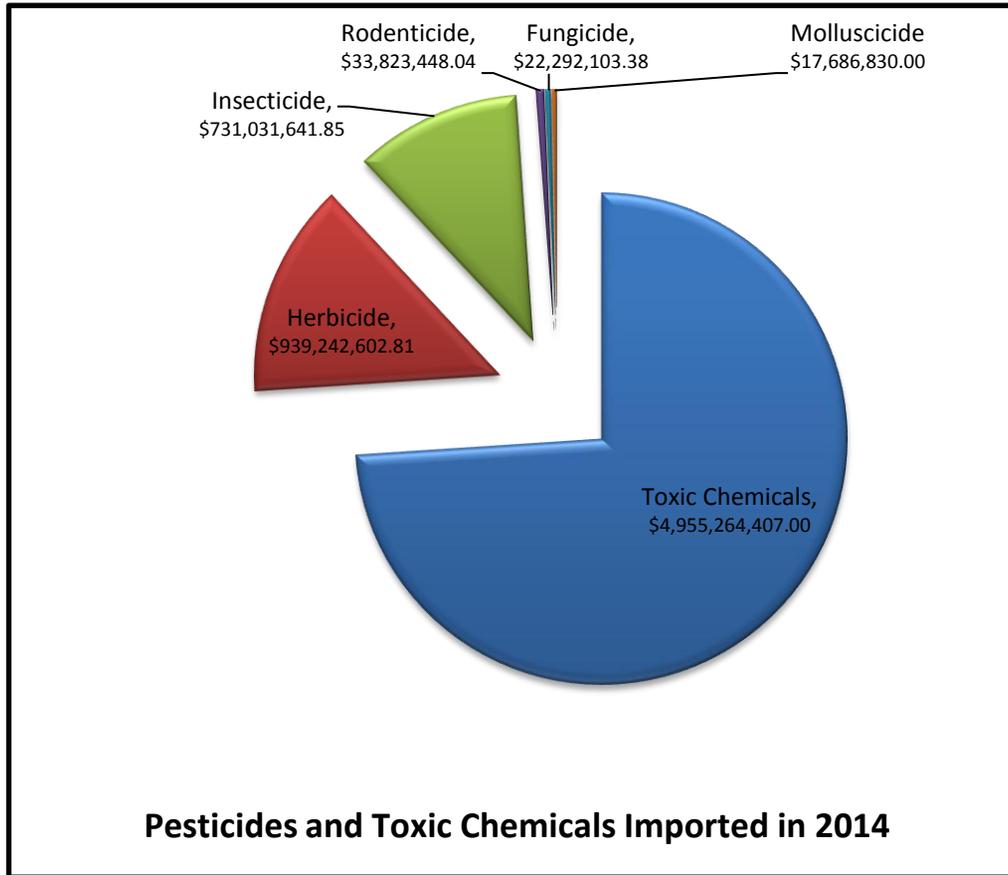
Registrant		Kukbo Science	
Importer/Distributor		FCT Technologies Inc. Bar Street, Kitty Greater Georgetown 225 8544	
Coumafen Wax Block	Rodenticide	Flocoumafen	General Use
Brodifacoum 0.005% Wax Block	Rodenticide	Brodifacoum	General Use
Registrant		Agrohao Company Ltd	
Importer/Distributor		FCT Technologies Inc. Bar Street, Kitty Greater Georgetown 225 8544	
Amazone	Herbicide	Paraquat Dichloride	General Use
Cutlish	Herbicide	Glyphosate	General Use
2,4 D Amine 720g/l	Herbicide	2,4 D	General Use
Registrant		Excel Crop Care Limited	
Importer/Distributor		Health 2000 Inc. 50DD Eccles industrial Estate East Bank Demerara Guyana 233-3425, 650-2510	
Celphos	Fumigant /insecticide	Aluminium Phosphide	Restricted Use
H2K Chlorpyrifos	Insecticide	Chlorpyrifos	General Use
H2K Glycel	Herbicide	Glyphosate	General Use
Salphur	Fungicide	Sulfur	General Use
Registrant		Rentokil Initial	
Importer/Distributor		Rentokil Initial Lot 8 Charles & Drysdale Streets, Charlestown, Guyana 225-5061	
Bromard	Rodenticide	Bromadialone	General Use
Bromatrol Concentrate	Rodenticide	Bromadialone	General Use
Difenard	Rodenticide	Difenacoum	General Use
Fentrol Concentrate	Rodenticide	Difenacoum	General Use

Registrant		Parijat Industries (PVT) India	
Importer/Distributor		Trading & Distribution Inc. Ruimveldt 5 Georgetown 227 2031 -8	
AIM	Insecticide	Alpha Cypermethrin	General Use
LOCSLAY	Insecticide	Lambda Cyhalothrin	General Use
LUJAT	Insecticide	Lufenuron	General Use
MEDAL	Insecticide	Thiamethoxam	General Use
SULTAN	Insecticide	Imidacloprid (20% SL)	General Use
SULTAN WG	Insecticide	Imidacloprid (70% WG)	General Use
TAKEON	Insecticide	Abamectin	General Use
HALAF	Herbicide	Fluazifop-P-Butyl	General Use
ORIENTAL	Herbicide	Bispyribac Sodium	General Use
PATAN	Herbicide	Diuron	General Use
RATAN 50SC	Herbicide	Terbutryn	General Use
TRIMET 75 WG	Herbicide	Trifloxysulfuron-Sodium + Ametryn	General Use
Weedor	Herbicide	Paraquat Dichloride	General Use
WeedFinish	Herbicide	2,4 D Amine	General Use
FENTO 60 WP	Molluscicide	Fentin Acetate	General Use
Registrant		Island Chemical & Consulting Inc.	
Importer/Distributor		Trading & Distribution Inc. Ruimveldt 5 Georgetown 227 2031 -8	
Mortel 20Sc	Insecticide	Fipronil	General Use
Registrant		Univar USA Inc	
Importer/Distributor		Trading & Distribution Inc. Ruimveldt 5 Georgetown 227 2031 -8	
Intice Gelanimo Ant bait	Insecticide (Ant Bait)	Sodium Tetraborate Decahydarte	Household Use
Intice Thiquid Ant Bait	Insecticide	Sodium Tetraborate Decahydarte	Household Use
Invict Gold Cockroach Gel	Insecticide	Imidacloprid	Household Use
Weevil-cide	Fumigant/Insecticide	Aluminium Phosphide	Restricted Use
Brigand	Rodenticide	Bromodialone	Household Use

Raticate Bait Blocks	Rodenticide	Brodifacoum	Household Use
Registrant	Monsanto Company		
Importer/Distributor	Trading & Distribution Inc. Ruimveldt 5 Georgetown 227 2031 -8		
Harness 90 EC	Herbicide	Chloroacetamide Acetochlor	General Use
Round Up Ultra	Herbicide	Glyphosate	General Use

Registrant	Carasol Limited		
Importer/Distributor	Trading & Distribution Inc. Ruimveldt 5 Georgetown 227 2031 -8		
Det Aerosol Insecticide	Insecticide	D-Allethrin, D-Tetramethrin, D-Cyphenothrin	Household Use

**APPENDIX III:
 Pesticides and Toxic Chemicals Imports, 2014**

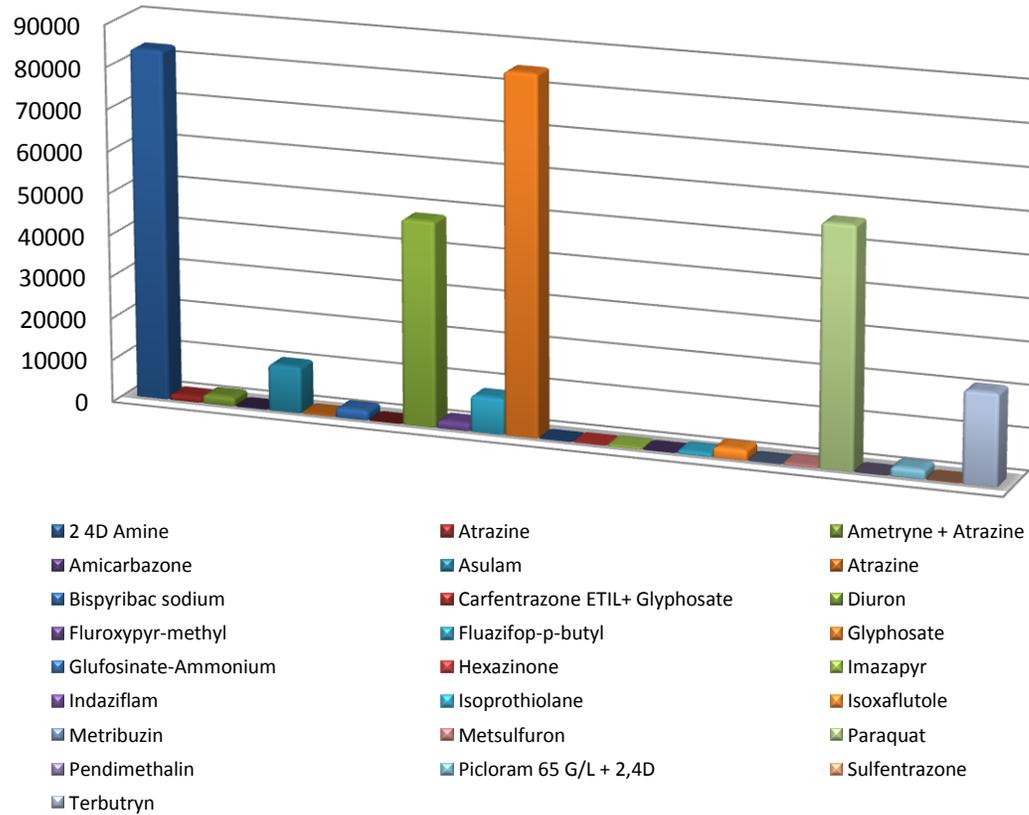


Chemical Category	Cost of Import, 2014
Toxic Chemicals	\$ 4,955,264,407.00
Herbicides	\$ 939,242,602.81
Insecticides	\$ 731,031,641.85
Rodenticides	\$ 33,823,448.04
Fungicides	\$ 22,292,103.38
Molluscicide	\$ 17,686,830.00
TOTAL	\$ 6,699,341,033.08

A total of 1,387,582kg of pesticides was imported for the year in review at a total cost of eight hundred and four million, eight hundred and thirty four thousand, and twenty two dollars.

Figure 1: Pesticides and Toxic Chemicals Imports, 2014

Herbicides Imported 2014



Paraquat Dichloride was the most imported herbicide for the year in review with a total of 207,156 kg imported. Glyphosate and 2,4 D Amine were the second and third most imported herbicides with imported quantities of 178,170kg and 115,968kg

Figure 2: Herbicides Imported for 2014

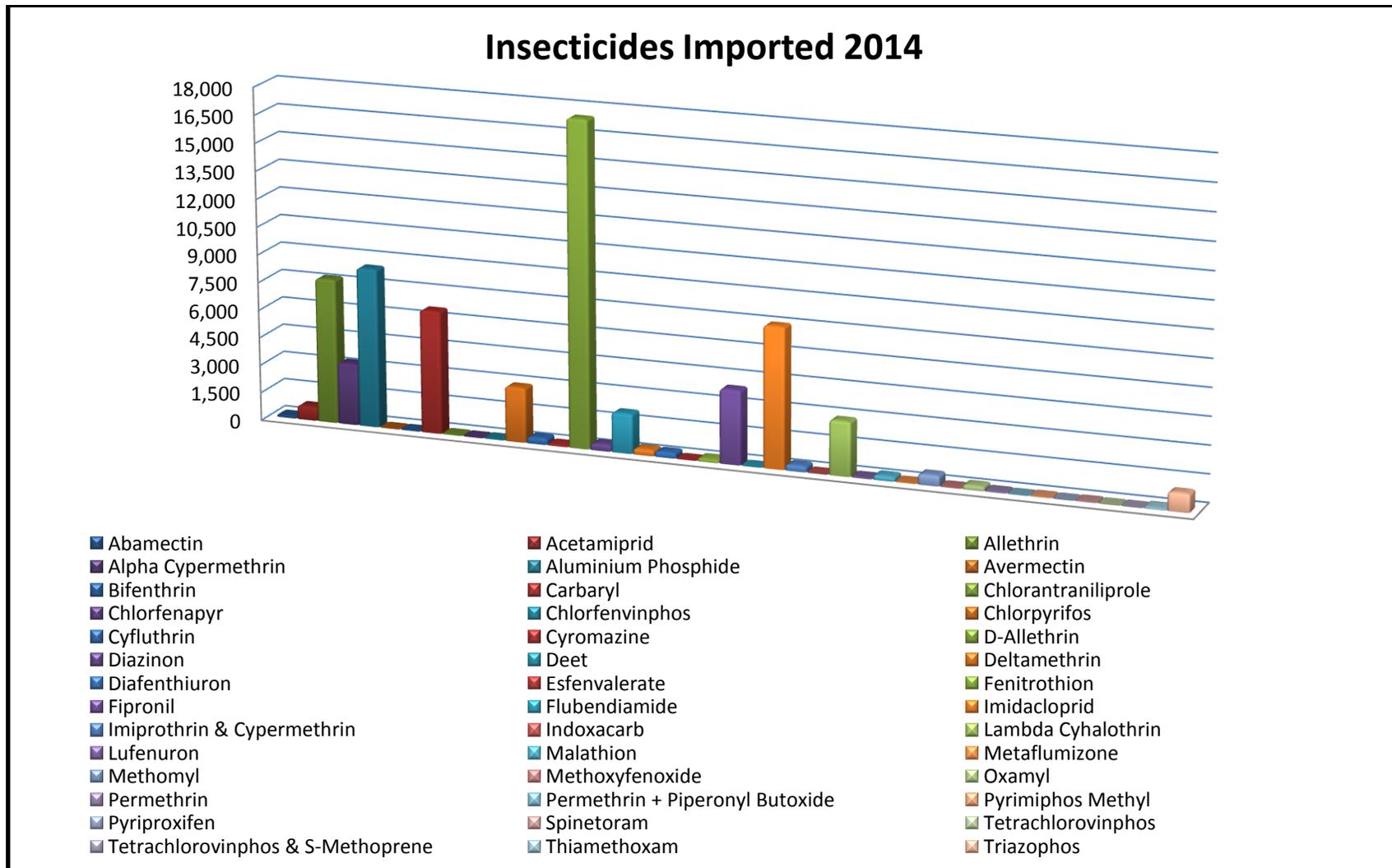
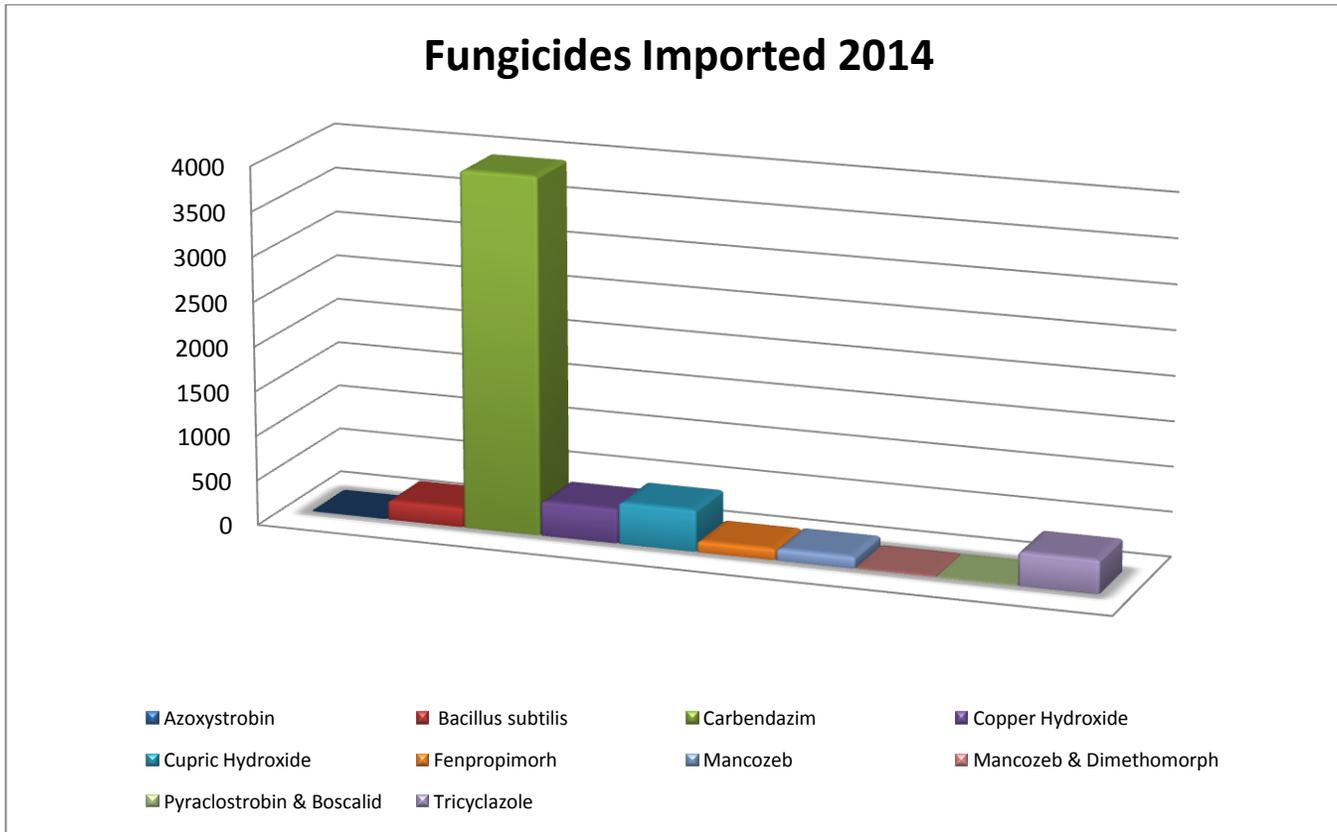


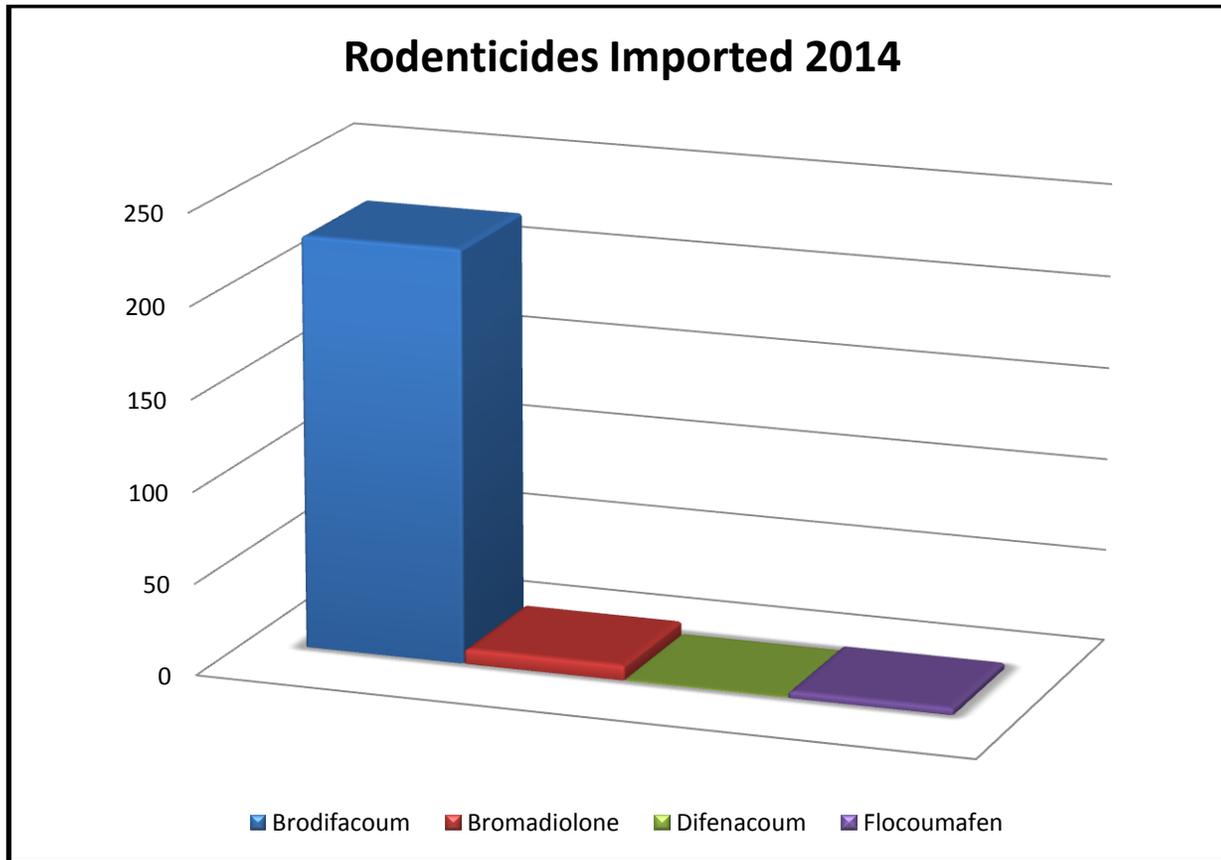
Figure 3: Insecticides Imported for 2014

Allethrin and Cyfluthrin which are mainly found in aerosol products were the most imported insecticides. However, Imidacloprid and Aluminium Phosphide were the most import agro-chemical insecticides imported.



Carbendazim was the most imported fungicide for the year in review with a total of 7970kg imported. Bacillus subtilis with a total of 1800kg was the second most imported fungicide.

Figure 4: Fungicides Imported for 2014



Brodifacoum was the most imported rodenticides for the year in review with a total of 45,090kg being imported.

Figure 5: Rodenticides Imported for 2014

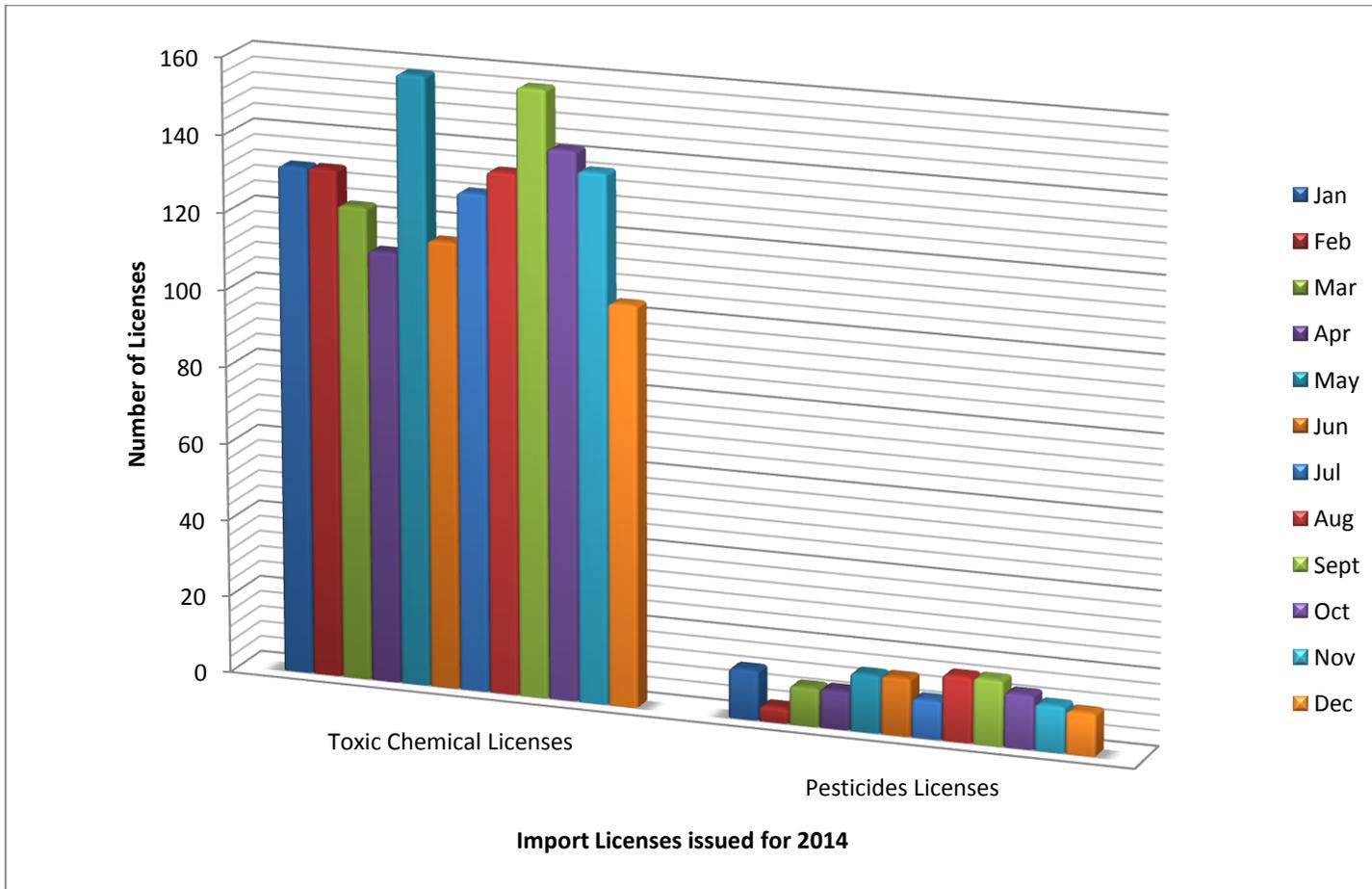


Figure 6: Import Licenses Issuance, 2014

APPENDIX IV: Summary of Licensed Pesticides Vendors, 2014

East Berbice	
Name	Address
Massy Industries (Guyana) Ltd.	Lot 3 Strand ,New Amsterdam, Berbice
Massy Distribution	Lot 16 Strand, New Amsterdam, Berbice
Medical Care Pharmacy (Sunita Ceres)	Lot 16 Main and Lad Lane, New Amsterdam, Berbice
Jason Beram Singh (Numark Chemicals)	19 Main and Pope Streets, New Amsterdam, Berbice
Varush Persaud	Highbury Village EBB
S. Singh & Sons Auto Spares	Lot 10 Ball Field Street, Cumberland, East Canje Berbice
Poonai Bhigroog (Poonai's Pharmacy)	Lot 72A Rosehall Town Berbice
Vishnu Sukhram	Rosehall Town Berbice
Caribbean Chemicals	Lot 23 Miss Phoebe, Port Mourant, Corentyne, Berbice
Advance Agricultural and General Supplies	Lot 29 Section B, Bloomfield Village Corentyne Berbice
Sukhram's Filling Station V. (Sukhram)	Hogsty Berbice
Vimal Ganesh (Guy Oil Gas Station)	7&8 Bush Lot Corentyne Berbice
NPG Packaging	Wellington Park Corentyne Berbice
Deomattie Sukhram	Bengal Farm Corentyne Berbice
Leekha Rambrich	Bengal Farm, Corentyne Berbice
Telackram Neerahoo	Lot 323 # 46 Village, Corentyne , Berbice
Seunarine Hardeen	325 # 55 Village Corentyne Berbice
Abdool Jameel Uddin	#57 Village Corentyne Berbice
Sunil Adhar (Pharmacy)	12 Section B # 58 Village Berbice
Jagesh Kumar	Lot 150 # 58 Village, Corentyne, Berbice
Vikash Enterprises (Bharrat Sukhu)	Lot 79 Section B No 64 village Corentyne Berbice
Abdool Jameel Uddin	#71 Village Corentyne Berbice
Sheik Sattaur	#71 Village Corentyne Berbice
Haimchand Dasrat	Lot 51 # 72 Village, Corentyne Berbice
Varsha General Store	Lot 22 Section A, # 73 Village, Corentyne, Berbice
Imtiaz Zulfikar Ally / Hurcilla Rhamatally	30 Springlands Corriverton Berbice
Chand Kumar Hardyal (Vishnu Super Store)	90 Springlands Corriverton Berbice
Khalil Nizamudeen	41 Rampoor Scheme Corriverton Bebice

Dudnath's Hardware & Agri Centre	Lot 1 Sec.A #79 Corriverton Berbice
Bhavna Khemraj	Lot 10 Line Path 'E' Corriverton, Berbice
Bhavna Khemraj	8 Grant 1651 Crabwood Creek Berbice
Shailendra Shamdat	Lot 3 Grant 1780, Crabwood Creek, Berbice
Hemchand Chattergoon	Lot 122 Grant 2767 Crabwood Creek Berbice
Haresh Rama	24 Grant 1651 Crabwood Creek Berbice
R. Prasad Industries	Lot 7-11 Grant 1802 Crabwood Creek Berbice
Mohamed Hafiz Baksh	23 Zone Yakusari South BBP Berbice
Chabilall Ramudit	65 Yakusari North BBP Berbice
Sorojodin Jewdhan	91 Yakusari South BBP Berbice
Nazim K Zaman	Lot 11 Johanna South, BBP Berbice
Outram Ramprashad	49 Mibikuri North BBP Berbice
Amarnauth Hardwar	55 Lesbeholden South BBP Berbice
Thakurmattie Ramnarine	C2 14 Lesbeholden South, BBP, Berbice

ECD & WCB	
Name	Address
Herman Permaul	Lot 4 Back Street Better Hope Scheme ECD
Massy Distribution	D4 Starlight Square Montrose E.C.D
Keith K.C. Vasconcellos	Lot 1 LBI Housing Scheme (Price is Right Store) ECD
Modern Agri.	31 Agriculture Road Triumph ECD
Nandraine Meusa	Mon Repos Market Stall # 185 ECD
Arjune Budhu	532 Simon Sue St, Enterprise, ECD
James Ally (Medic Aid Pharmacy)	39 Logwood Enmore ECD
Narine's Pharmacy	29 Logwood Enmore ECD
Tarmatie Wahid	Lot 10 Cove & John, School Road ECD
Bisnauth Prasad	27 Craig Milne Street Cove & John ECD
Jailall Persaud	Lot 82 Lowland ECD
Nareshwar Rangunandan	57 Section C Access Road Cloonbrook ECD
Y.K. Sahib and Sons	Lot 1 Section A Clonbrook ECD
Mark Anthony Persaud	76 Goodhope Mahaica ECD
Rohit Persaud	Lot 36 w1/2 Helina #2 Mahaica ECD
Neimeraj Khilawan	Lot 1 Public Road, Belmonte, Mahaica ECD
Deoanand Dass	Mahaica Market Stalls 26-27 ECD
Khamraj Bholanath	Mahaica Market Stalls 28-29 ECD
Ramchan & Sukraj Ramasar	86 Vereeniging Mahaica
Khemraj Karu	Cane Grove Estate Mahaica ECD
Gaindawattee Ramkarran	Cane Grove Estate 125
Paramdai Virsawmi	Lot 41 Virginia Village, Cane Grove, ECD
Viticharan Singh (Vic Singh General Store)	De Hoop Front, Mahaica, East Coast Demerara
Gangaram Sharma Agardeo	Lot 1A Fredrich Johana ECD
Mulchan Persaud	# 10 De Hoop Branch Road, Mahaica, ECD

Geeveta Mahadeo	Lot 1 Manilla West Mahaicony ECD
S & R Farming Supplies Ent.	Lot 5 Plantation Prospect, Mahaicony, ECD
Madray Rathanam	Lot 8 Quaker's Hall West Mahaicony, ECD
Jenie Balkaran	Wash Clothes Mahaicony ECD
Paulette's Variety Store	Lot 1 Perth Village, Mahaicony ECD
Sewsankar Persaud	Perseverance Mahaicony ECD
Mohamed J Hasan (Curie General Store)	10 Dundee Mahaicony ECD
Rajmattie Persaud	E & F Little Abary ECD
Teekachand Ramdat	Lot 2, Golden Fleece, WCB
Lilawattie Singh	Lot 6 'D' Bush Lot WCB
Abdul Samad Rahim	Lot 7 B Bush Lot, WCB
Dhaniram Ramchand	Lot 2 Bath Settlement WCB
Ramdial Ramotar	Lot 3 Waterloo Bath Settlement, WCB
Ramdehol Bissoondat	Lot B1 Bath Settlement, WCB
Nalini Devi Prettipaul	Lot D9 Wellington Bath Settlement, WCB
Sirirampersaud	Lot D 15 Wellington Bath Settlement WCB
Zakir Ahamad Khan	Lot G 11 Bath Settlement, WCB
Shevanie Persaud	Lot 5 Section C Bath Settlement, WCB
Naideen Sirkisson	Lot D11 Bath Settlement, WCB
Ramkarran Ramgobin	Lot 241 # 9 Village, WCB
Chitra Samaroo	Lot 5 Pln. Washington WCB
Abdool Zaleem Gaffar	9 Cotton Tree WCB
Ameena Gaffar	9 Cotton Tree WCB
Bisram Basantram (Brian and Sons)	Lot 14 Cotton Tree WCB

EBD, WCD & EBE	
Name	Address
Farmer's Friends and Pet Shop	85 Pine Street Mackenzie Linden
Rambharrat Farm Supplies and Nursery	Kara Kara Mackenzie Linden
Sunil Bhagwandass (EVERGREEN)	2515 Central Amelia's Ward Linden
Samuel Shin Foo	Lot 2 Burnham Drive Wismar, Linden
Carlos Renato Jadunauth	Lot 5 Alliance Road Timehri, EBD
Amarnauth Jadunauth	Lot 2 Soesdyke East Bank Demerara
Baljeet Seepersaud	276 Section C Grove Bloack Y EBD
Krishan Katwaru	90-91 Canal #2 WBD
Dinesh Kumar	Lot 4 New Annlegt Canal #2 WBD
Krishna Gopal	South Section Canal #2 Polder
Lalta Digamber	40 N-Sec Canal #2 WBD
Lalta Digamber	39 New Road WCD
Davendra Baksh	Track 'R' Stelling Road Vreed En Hoop WCD
Ramesh Sugrim and Ryan Sugrim (Shell Gas Station)	Lot 8 La Union WCD

F&Z Chemicals & Pet supplies	Lot 35 La Jalousie Public Road WCD
Khemraj Ramlochan	Lot L Post Street Windsor Forest WCD
Value Rite Pharmacy	Lot 1 Hague Jib W.C.D
Maria's Variety Store	Lot 23 'B' Cornelia Ida WCD
Mohamed Ayube Ali	8 Station Street, Leonora, WCD
Deonarine Ramgobin	Block 'C' Orangestein WCD
Laldeo Bukhan	118 Tuschen New Scheme EBE
Laldeo Bukhan	252-254 Parika Highway EBE
Laldeo Bukhan	214 Parika Old Road EBE
Monica Thompson (Farmers Friendly Agri. Center)	1982 Parika East Bank Essequibo
Boodhoo's General Store	299 N1/2 Parika Highway EBE
Faizul Ally	Plot #7 Parika Backdam EBE
Rajesh Ganesh	Lot 32 Parika Backdam EBE
Somdat Ramgobin	Kent Dam, Parika Backdam EBE
Zaman Nazier	Lot 19 Present Hope Hubu Back Dam E.B.E
Debi Bajan Rambhajan	Present Hope EBE
Satnarine Sahadeo	Lot 31 Belle Plaine Wakenaam Island
Nand Kishore Jairam	Lot 16 Belle Plaine Wakenaam Island
Makeram Rambaran	18 Belle Plaine Wakenaam Island
Satnarine Singh	Block 5 Sans Souci, Wakenaam Island

Georgetown	
Name	Address
Massy Industries (Guyana) Ltd.	R5 Ruimveldt Georgetown
Caribbean Chemicals	45 Croal Street, Stabroek, Georgetown
Gardenland Nursery	Lot 1 Brickdam Stabroek Georgetown
Deonarine Ramgobin	44 Robb Street, Georgetown
Guyana Stores Ltd.	19 Water Street Georgetown
AGROIN	Lot 39 Broad Street Georgetown
A' Plus Distributors	Lot 39 Broad Street Georgetown
FCT Americas (Amazon Chemicals)	213 Barr Street Kitty, G/Town
#1 Plant Shop	Lot 70 Sheriff Street Georgetown
Flowers Paradise	Lot 13 Houston Public Road E.B.D

Essequibo Coast	
Name	Address
Roopnarine Bisnauth	Stall #5 Supenaam Market Essequibo Coast
Paras Ramdial	Supenaam Market Essequibo Coast
Ram Bisnauth	Stall #3 Supenaam Market Essequibo Coast
Charles Henry	Stall #1 Supenaam Market Essequibo Coast
Ariff Mohammed Khan	Supenaam Essequibo Coast
T and R Bisnauth	Lot A6 Spring Garden Essequibo Coast

Thelma Matorah	59 Aurora Essequibo Coast
Yoolaim Bacchus	92b Makeshift Aurora Essequibo Coast
Faizul Alli	22 Vilvoorden Essequibo Coast
A & M.Z Yassim	Lot 11 Middlesex, Essequibo Coast
Parmanan Persaud	78 Huist Dierrien Essequibo
Jasoda Shevnandan	4 Rivers Town Essequibo Coast
Indar Singh	22 Airy Hall Essequibo
Ganeshwar Lall	Lot 'I' Maria's Lodge Essequibo Coast
Takoor Persaud Hardware Store	lot 7 Golden Fleece Essequibo Coast
Deolall Saucharie	lot 1 Hoff Van Aurich
Sohanlall Baboolall	47 Public Road Queenstown Essequibo Coast
Imam Bacchus & Sons Ltd.	Affaiance Essequibo Coast
Balram Kawal	11 Land of Plenty Essequibo Coast
Massy Inc.	Land of Plenty, Essequibo Coast
Azad Bacchus	47 Cottonfield Essequibo Coast
Builder's Hardware & General Supplies (BOODHOO's)	Anna Regina Essequibo
Tekram Sankar	28 Dennis Street Anna Regina
Caribbean Chemicals	Lot C Anna Regina Essequibo Coast
Ariff Mohammed Khan (RIFY)	Anna Regina Essequibo Coast
Ariff Mohammed Khan (Riff's Lima Fish Complex)	Lima Essequibo Coast
Jaishree Azam	Jones Town, Lima New Housing Scheme Essequibo
GM&R Trading	Lot 1 Danielstown Essequibo Coast
Telac Dhari Persaud	Lot 1 Sparta Essequibo Coast
Roopesh Latchman	6 'B' Back Street Windsor Castle
Satrahah Ganeach	lot 18 Back Street Windsor Castle
Gopichand Deodatt	369 Hampton Court Essequibo Coast
Samaroo's Investment	201 Hampton Court Essequibo
Rupert Paul(Lot 158 Devonshire Castle
Chate Narine	6 Paradise Essequibo Coast
Malini Singh Agro Chemicals	Lot A Exmouth Essequibo Coast
Vincent Persaud	West Bury Essequibo Coast
Sukhdeo Trading Enterprise	Bounty Hall Essequibo Coast
Bissoondial Narine	Lot 2 Summerset & Berks Essequibo Coast
Anand Singh	New Road Essequibo Coast
GM&R Trading	Lot 100 Charity Essequibo Coast
Mahendra Ramnarine & Lelawattie Persaud	Lot 104 Charity River Dam Essequibo Coast
Alfro Alphonso (A&S General Store)	Stall 13 Charity Market Essequibo Coast

Hinterland Location	
Name	Address
Marcellus Francis	Mabarumma Kumaka North West Region
Anita Elizabeth Francis	Port Kaituma Water Front
Ramcoomari Gonsalves	Lot 245 Tabatinga Lethem

FUTURE PLANS: 2015 ONWARDS

The Board aims to continue to strengthen chemicals management in Guyana in a lifecycle approach through great education and awareness programs and implementation of the Pesticides and Toxic Chemicals Control Regulations 2004 (No. 8 of 2004).

Projections 2015 PTCCB

1. Registration of 50 pesticides for import, sale and use in Guyana
 - Reduction of dangers associated with these products to human health and environment
2. Licensing of 2500 imports of pesticides and toxic chemicals
 - Approval of all chemicals imported, information gathering and availability as to quantities, names, types, targets pest etc.
3. Training and certification and Licensing of Pest Control Operators
 - Ensuring use of household pest control products, use of registered operators, reduce use of agricultural pesticides in household pest control
 - Ensuring capabilities and skills to carry out fumigation in Guyana
4. Licensing of 180 pesticide vendors countrywide
 - Ensures availability of registered pesticides to farmers
5. Training and awareness programmes reaching 1500 farmers and farm hands
6. Increase public awareness via newspaper, inews, website, newsletter
 - Benefit decrease in illegal trade and vending of household and agri. pesticides
7. Training of Extension agents and students from the Guyana School of Agriculture
8. Execute investigations relative to the mis-use of pesticides
9. Training provided on the following area:
 - Safe and Effective Use of Pesticides
 - Disposal and storage in Pesticides
10. Analytical works by the laboratory to support the Board
 - The Pesticide Laboratory supports the Board in ensuring food safety in agriculture production
 - Verifies quality and types of pesticides used in agriculture
 - Verification of maximum residual limits
 - Instituting programmes to allow accreditation
11. Build staff capacity through international participation and training
 - Inspectorate training on inspection and enforcement
 - Obsolete and bio pesticides
 - Laboratory analysis of formulated products
 - Residual Analysis

12. Training and awareness to Customs and Trade Administration to strengthen enforcement and reduce Transboundary movement of chemicals, reduce illegal imports

CONCLUSION

An analysis of the activities of the Board for the period under review would demonstrate that, apart from the routine administrative and operational strategies, genuine and bold initiatives were employed towards achieving its mandatory objectives. While some of the targeted strategies are ongoing, it would be found that the Board's Secretariat was efficient in carrying out its routine responsibilities, implemented new initiatives all in the fulfillment of its mandate, notwithstanding the stated constraints under which it functioned.

The Board will continue to work with the Ministry of Agriculture, sister Agencies and external stakeholders towards meeting its mandate under the Act and Regulations.
