

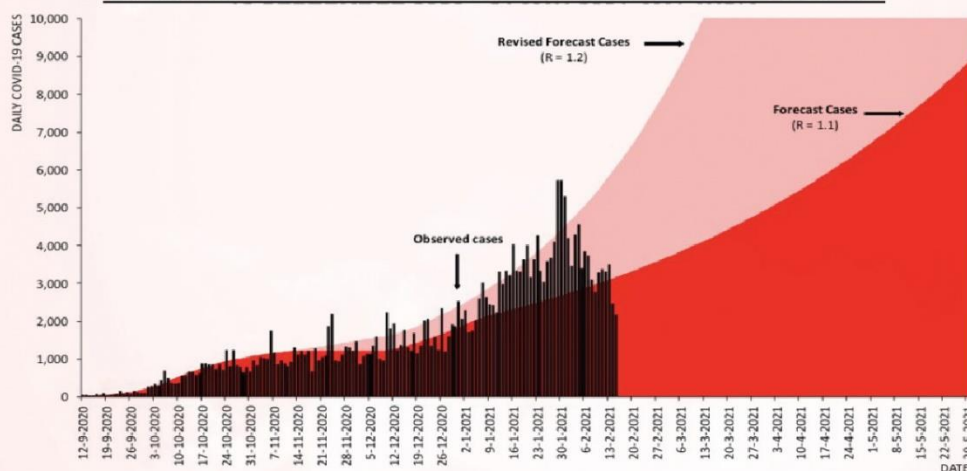
President's Message



Assalamualaikum wbt dan Salam Sejahtera,

Pada ketika ini Malaysia masih lagi dibawah Perintah Kawalan Pergerakan (PKP) V2.0 yang akan berakhir pada 18 Februari, 2021. Adalah dijangkakan apabila tamat PKP, maka bermulalah Perintah Kawalan Pergerakan Pemulihan. Kadar kebolehtangkitan Covid-19 atau Ro/Rt pada jangkaan mengikut kes seharian pada 15hb Februari 2021 untuk seluruh negara adalah 0.88 (<http://covid-19.moh.gov.my/kajian-dan-penyelidikan/nilai-r-malaysia/0221/r-naught-malaysia-hari-ini-15022021>). Sekiranya rakyat Malaysia mematuhi SOP yang diarahkan oleh Kementerian Kesihatan, kita akan melandaikan semula lekuk Covid-19 pada penghujung bulan Mei, 2021.

SEIR MODEL OF COVID-19 DAILY OBSERVED AND FORECAST CASES



Kita juga berharap dengan adanya vaksin yang akan diberikan bermula hujung bulan Februari 2021 ini akan mempercepatkan lagi proses pengurangan penularan pandemik ini. Berdasarkan kepada Program Imunisasi COVID-19 Kebangsaan (<https://www.vaksinovid.gov.my>), kerajaan Malaysia menyasarkan 80 peratus populasi negara ini atau 26.5 juta individu menerima vaksin yang akan diberikan secara percuma dalam tiga fasa. Sekiranya, imunisasi dilakukan dengan efisien, kita menjangkakan seluruh rakyat Malaysia akan mendapat vaksin tersebut pada penggal suku pertama 2022. Memandangkan pada tempoh masa yang lama dari segi logistik, kita masih perlu mematuhi SOP yang sedia ada sebagai langkah pencegahan.

Kumpulan sasaran bagi 3 fasa pemberian vaksin dan anggaran individu yang akan divaksinasi.

FASA 1 (Februari – April 2021)

Kumpulan utama 1

Pejabat berlesen perjalanan yang mengemudi

peralatan kenderaan komersial dan swasta

500,000
orang

Kumpulan utama 2

Pejabat berlesen perjalanan yang mengemudi

peralatan perikanan, pertanian, dan pertahanan

FASA 2 (April – Ogos 2021)

Kumpulan utama 1

Baki kementerian, penguatkuasaan serta

perkhidmatan awam dan pertahanan

9.4 juta
orang

Kumpulan utama 2

Warga emas berumur 65 tahun ke atas, golongan berisiko tinggi

mengamuk penyakit kronik seperti penyakit jantung, diabetes, dan tekanan darah tinggi, dan orang dengan upayanya (OKU)*

*Kumpulan berisiko tinggi akan divaksinasi pada peringkat kedua

Kawalan wabak

FASA 3 (Mei 2021 – Februari 2022)

Kumpulan utama

Penduduk berumur 18 tahun ke atas (warganegara

& bukan warganegara)

Kawalan di berikan kepada zon merah, zon kuning

dan kawalan zon hijau

Kawalan wabak

Sumber: KKM

13.7 juta
orang/
lebih



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President's Message - Continue

Pada ketika ini, the Malaysian Pest Management Association (MPMA) sedang berbincang dengan Lembaga Racun Makhuk Perosak Malaysia (LRMP) dan juga Jabatan Pertanian (DOA) tentang pelan tindakan dalam era norma baru.

Salah satu cabaran yang dibincangkan ialah tentang peperiksaan Lesen Pemakai /Pembantu Pemakai Racun Makhuk Perosak (PAL/PAL) di bawah Kaedah Pengendali Racun Makhuk Perosak 2004. Ini ialah kerana pelanggan mewajibkan lesen tersebut sebelum kerja-kerja boleh dikendalikan dipremis mereka. Satu alternatif yang dipertimbangkan ialah dengan mengagihkan calon peperiksaan ke beberapa lokasi pada setiap negeri. Pada ketika ini jumlah calon yang akan menduduki peperiksaan meningkat disebabkan ketiadaan peperiksaan sepanjang tahun 2020. Pihak MPMA juga mencadangkan supaya peperiksaan dilakukan lebih kerap tahun ini terutamanya di negeri-negeri yang mempunyai banyak syarikat PCO.

Saya mohon kerjasama kepada yang berkepentingan didalam industry ini supaya mengambil cakna tentang isu-isu seperti PCO tidak berlesen dan penjualan pestisid atas talian yang masih berleluasa. Sekiranya anda mempunyai sebarang maklumat, sila emailkan ke aduan.bkrp@gmail.com dengan segera. Aduan anda akan dilayan oleh pegawai yang dipertanggungjawabkan dan pihak Jabatan akan membuat siasatan yang sewajarnya.

Saya ingin mengambil kesempatan ini untuk mengucapkan ribuan terima kasih kepada ahli-ahli yang mengambil masa untuk menghadiri Mesyuarat Agong Tahunan (AGM) kali ke 26 yang berlansung atas talian/hybrid pada 23 Disember, 2020. Penghargaan juga kepada ahli Exco MPMA yang mengambil masa untuk memberi sumbangan masa dan tenaga serta kepada semua pembekal yang mengambil inisiatif melakukan program atas talian dan berkongsi maklumat terkini sepanjang tempoh PKP ini. Saya juga ingin mengucapkan terima kasih atas segala teguran dan pandangan yang diberikan kerana ianya memberikan semangat untuk memperbaiki sebarang kelemahan kearah kelastrian dan kecemerlangan industry ini. Marilah kita sama-sama berdoa supaya segala cabaran yang kita hadapi ini cepat lenyap dan memperkuat lagi jatidiri dan satuhati kita dalam menghadapi apa jua cabaran yang akan datang.

KitaJagaKita! StaySafe!

Community Service Responsibility (CSR)

Wassalam,

NOR HISHAM BADRI
Presiden (Penggal 2019-2021)
The Malaysian Pest Management Association of Malaysia

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Cert. No.: OHS00545

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JIRP.P/1120/575

VP-Communication Message



Dear fellow members of MPMA,

Year 2020 has flown away, yet it leaved us with unforgettable memories where the COVID19 pandemic has landed worldwide. It is causing global disruption and Malaysia cannot be avoided too. In due of such circumstances, activities and programs in the association have halted for the safety of all. So do forgive us if we are unable to conduct any training but we ensure to resume back our training once it is allowed subject to the compliance and SOP set by government.

Now it is 2021!

Let us continue to strive at our best to be innovative and excellence in this challenging economic environment. It is a year of promising with positive change we need to commit in like contactless facility. We can achieve this by using mobile app reporting provided by software program companies. One of the good feature is live reporting and paperless service report. This program have benefits to enhance productivity and transparency of work too. On top of it, our government is now providing a RM5000.00 business digitisation grant for SME. For more information, do logon to SME Business Digitalisation Grant | MDEC. We hope that all members who are interested in this are able to tap on this opportunity as it has a limit to 100,000 applications.

Another tool that we can tap on is virtual conference meeting. It has good feature like upload of document on the screen and discussion with high number of participants. Of course number of attendees in meeting varies from one app to another. By now app like Zoom, Google Meet, Cisco Webex, Skype and others too are not stranger to all, more importantly they are free to use. We also encourage all members to write in to MPMA shall you have innovative ideas where we can learn from you and publish in the upcoming edition of Pest Link.

Last but not least, with the resent less effort from VP-membership has managed to update the membership as presented in page [xx].

We wish all a belated Happy New Year and a Happy Chinese New Year with abundant Luck, Prosperity and Health. Thank you. VP Communication, 2011 – 2013

Thank you.

Belven Lee

VP Communication (2019-2021)

Malaysian Pest Management Association (MPMA)

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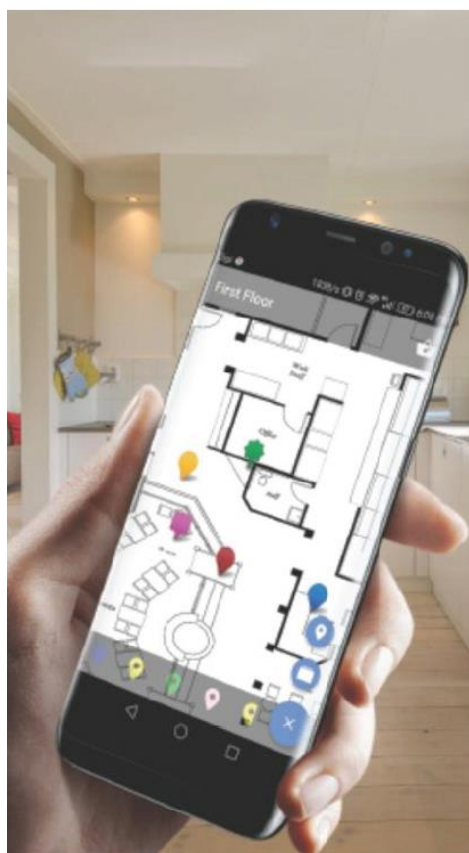
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Exco Greeting & Message



Ms Carol Lam
- Deputy President

Dear Members, Associates & Friends

Warm Greetings and Happy New Year!

2020 has been an eventful year for all of us and it certainly has not been easy even as we enter 2021. So here I wish all our members a Safe, Healthy and Good Year ahead. In this present circumstance, let us continue to look out for opportunities to seize, make a difference, and bring our industry forward during this crisis.

My best wishes to all and let us stay strong, resilient, and hopeful.

God Bless!

Dear Members,

Take a leap of faith and begin this wondrous new year by believing.
You are never too old to set another goal or to dream a new dream.



Mr Alex Kong King Siong
- Honorary Secretary



En Mohd Anuar Ahmad
- Honorary Treasurer

Dear members

The unprecedented COVID-19 pandemic is a global health crisis that had vast economic and social repercussions. It has made us face with challenges the likes of which we have never faced before. For many, having a trusted advisor to turn for help and guidance through this crisis is incredibly important. Knowledge of clients' business and many of the specialist skills that we have developed over the years are necessary to help to navigate through these most challenging of times.

There are many suggestions of ways business can survive and thrive through COVID-19 and beyond, despite some of them has never been tested, yet could be a great help. At this stage the organization agility, which was once desirable, is now becoming the central to business survival.

The digitalization has becoming a ground to change the business model creatively for the better. The cooperation with previously unlikely partners proffers and the like, seem becoming a more effective means to generate collective new gains.

Having said, for 2021 I wish that everyone considers of what 2020 and years before has taught us. Let us continue to appreciate of what we have and appreciate our family, neighbours, and friends. Let continue to be kind to one another and spread peace and health to all human beings.

Wishing you all prosperous, happiness and good health, for years to come.
Thank you.

Dear all MPMA members

We are blessed and had gone thru the eventful year of 2020 with Covid-19 pandemic! However we have bigger challenges in coming year of Golden Ox 2021. Let's work hand in hand to fight the battle and flatten the curve to win the Covid war! We pray for our strength and protection for our industries during this difficult time and courage to move forward for a better future!

Thank you for all the support and patience.



Ms Regine Lim
- Vice President Membership

Exco Greeting & Message



Mr Sin Chee Sen
- Acting Vice President
Project Development (2020-2021)

Dear Members,

May this year will bring us a fully loaded with happiness, new objectives, new fulfillment and a whole new inspiration towards life, career advancement, family and friends even though during this pandemic. Wishing you every day of the new year to be filled with success, happiness and prosperity and Happy Ox New Year.

Stay Safe & Take Care.



Mr Sunny Phua Yeong Loong
- Committee Member

Dear Members,

2020 was a remarkable year for us due to the pandemic. We are grateful for having lived through another year. Hopefully with the unity and cooperation of everyone, we will be able to see the light at the end of the tunnel in 2021. #Kitajagakita.

Stay safe, stay healthy, and Happy Chinese New Year.

Thank you.



En Suhamdan Salim
- Committee Member

Dear Members,

Another year has passed by, wish this year brings all of us lots of joy, happiness, good health and indeed wealth. Have a rocking year.

Dear Members,

May this year will bring us a fully loaded with happiness, new objectives, new fulfillment and a whole new inspiration towards life, career advancement, family and friends even though during this pandemic. Wishing you every day of the new year to be filled with success, happiness and prosperity and Happy Ox New Year.

Stay Safe & Take Care.



Mr Lim Yu Chong
- Committee Member



Mr Selvarajan Muthiah
- Committee Member

Dear Members,

Let's face the pandemic in year 2021 together. Wishing success to all members. Happy New Year.

Dear Members,

2020 was a challenging year to our industry. Since the Covid-19 outbreak in first quarter of 2020, business all over the world are facing hard times. Alhamdulillah, we managed to weather the storm and move forward stronger and better

than before. Let's welcome 2021 with new strategies and new business ideas. Now it is to be more flexible and adapt. Now is the time to step up and act.

Stay Safe . Kita Jaga Kita.



En Yusnaizi Bin Mat Aripin
- Committee Member



Agricultural Chemicals (M) Sdn Bhd

CORPORATE PROFILE

Agricultural Chemicals (M) Sdn. Bhd. was established since 1969 as a Japanese-Malaysian joint-venture between Nihon Nohyaku Co., Ltd., Marubeni Corporation and Pertubuhan Peladang Kebangsaan (NAFAS). From its core business as a pesticides formulator, ACM has grown into a leading agrochemicals, farm machinery, environmental health, animal nutrition and aquaculture. ACM also offer toll manufacturing (OEM), Supply, Deliver and Apply (SDA) concept and contract agricultural R&D services.

ACM has ventured into public health since the 1980s. Our pioneer series of vector control product has since been introduced in the market, and have been widely used by the Ministry of Health until to date. Besides vector control products, ACM has also offered pest management products to provide solutions to the professional pest management.

To enhance our products' efficacy, ACM continually to conduct collaborative research studies with the renowned research institutes to evaluate our products. ACM emphasizes in producing products that comply with quality standards and is ISO 9001:2015 certified. All our products are meticulously assessed before they are introduced to the market. We acquired a string of accolades such as:

Community Service Responsibility

- Malaysia Industry Excellence Award 1995, Special Award for Innovative Product
- Enterprise 50 Award
- SME100 Awards

For more detail, please visit our website at www.agrichem.com.my. For general enquiry, please write to us at info@agrichem.com.my.

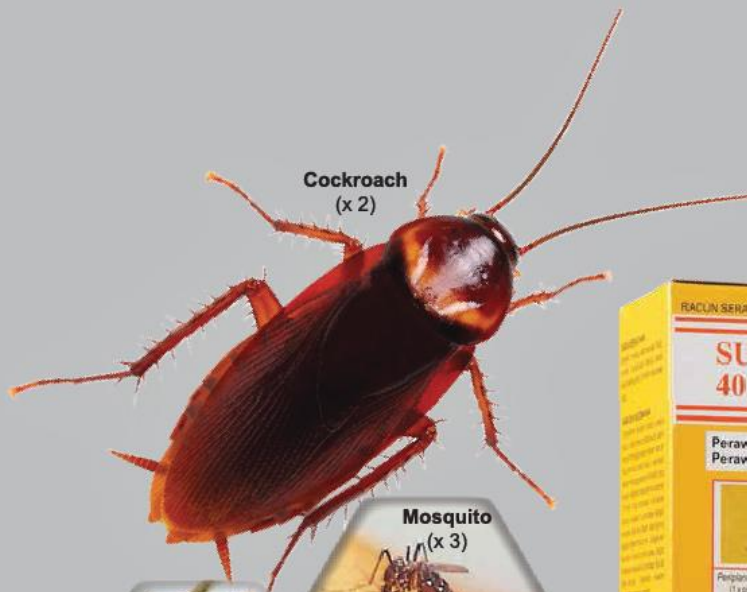
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JIRP.P/1020/516

Congratulations to Dr Wan Fatma Zuharah

MPMATM

Congratulations

to

Dr Wan Fatma Zuharah



Greetings from Entomological Society of Malaysia (ENTOMA),

In these trying times of the COVID-19 pandemic, ENTOMA would like to express our thoughts and prayers to those affected by the situation. One of the most affected is perhaps our industry partners. With the recent vaccination program announcement, we hope this would pave towards a better future for all of us.

I would like to thank Malaysia Pest Management Association (MPMA), especially the president of MPMA, Mr. Nor Hisham Badri, for giving ENTOMA a spot in this column. I would like to use this opportunity to introduce ENTOMA's vision and mission for the future. The Entomological Society of Malaysia (ENTOMA) was established on the 22nd of August 1994. Going into our 27th anniversary, we are one of the oldest established entomological society in Malaysia.

Throughout the years, our vision has always been to establish ENTOMA as a central hub of sharing and exchanging knowledge to develop and advance education and research in Malaysia and abroad. Our mission is to promote entomological expertise to the public through close collaboration with local and international entomologists, universities, government agencies, schools, related private sector and non-governmental organizations (NGOs). One of ENTOMA's central role is to disseminate, by all appropriate means, accurate knowledge and information to the general public. With a strength of various members backgrounds in entomology from different organizations, we ENTOMA members work together to achieve our vision and mission.

In light of the recent issue to promote STEM, ENTOMA would also like to emphasize that we are actively pursuing STEM education awareness and campaigns. ENTOMA forms a bridge between academic research and industrial development. ENTOMA also recommends a close and friendly relationship in any related industries by promoting network linkages between industry partners. This is where MPMA fits the puzzle. While ENTOMA bridges the gap between education research and industry, MPMA serves to close the bridge to disseminate and share information to the public concerning pest control. Each of us has a role to play, and our collaboration will ensure great success in the future since we share the almost same objectives and interests.

Heading in the same direction, I wish for a long-term relationship and collaboration between ENTOMA and MPMA. "Coming together is the beginning, staying together is a progress, and working together is a success" -Henry Ford-

Wan Fatma Zuharah
ENTOMA President 2021-2022

Community Service Responsibility (CSR)

CSR by Kamal Kamal Pest Control

Projek Ihsan -

Jom Disinfeksi Kereta Anda

Date: 15 & 16 May 2020

Venue: Kamal & Kamal Pest Control, No 24 Jalan Melur 43, Taman Melur, Ampang, Selangor



CSR by ACM

ACM together with Majlis Bandaraya Seberang Perai (MBSP) and all the frontliners in combating the COVID-19 pandemic

Date: 2nd April 2020

Venue: Majlis Bandaraya Seberang Perai (MBSP), Penang

Activity: Sponsorship of Jacto PPE, Arbus 400 Golden and Jacto 600 Export by Agricultural Chemicals (M) Sdn. Bhd. for disinfection at Covid-19 hotspots.



CSR by Innopest Solutions

Sponsored surface sanitizer and sprayer to SRJK (C) Chong Kuang, Sungai Bakap, Penang in June 2020.

Community Service Responsibility (CSR)

CSR by Econpest Services

Providing Pre and Pest Disinfection Treatment for Blood Donation Drive

Date: 28th Jan 2021

Venue: St. John Ambulance of Malaysia (Penang HQ)

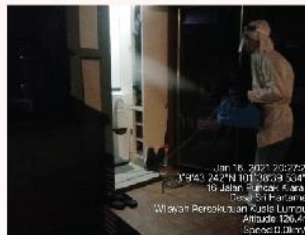


CSR by Ochre Pest Control Sdn Bhd

Date: 16 January 2021

Venue: No. 18, Jalan Puncak Kiara 4,
Desa Sri Hartamas,
50480 Kuala Lumpur,

Activity: Disinfection Service at
Bank Negara Malaysia
Governor's Guardhouse.



Date: 21 January 2021

Venue: Lorong Keramat Tepi,
Kampung Datuk Keramat.

Activity: Disinfection Service at
Bank Negara Malaysia
Assistant Governor's House.

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Selective Termite Baiting Application for Managing Wide Area Infestation¹



Assoc. Prof. Dr. Abdul Hafiz Ab Majid*
Board Certified Entomologist (BCE)-Urban & Industrial Entomology
Household & Structural Urban Entomology Laboratory,
School of Biological Sciences,
Universiti Sains Malaysia,
*Email: abdhafiz@usm.my

Summary

The termite baiting system has emerged as a popular option for controlling subterranean termites. The effectiveness of termite baiting depends on the foraging of the termites to encounter the bait, feed on the bait, and the horizontal transfer of residual insecticide deposits between nestmates. However, termite baiting can be costly and time consuming. Thus, this study looks to minimize the termite baiting application which leads to the total colony elimination. Overall, this approach show that a termite colony population can be eliminated by selective termite baiting treatment.

Introduction

The effectiveness of baiting depends on the foraging of the termites to encounter the bait, feed on the bait, and the horizontal transfer of residual insecticide deposits between nestmates. Termite baiting can be applied in two methods: through in-ground (IG) and above-ground (AG) bait system. IG bait system is installed in the soil along the perimeter of the infested building to intercept foraging termites while AG bait system (bait box with one open side) is installed on a wall of a building that has been infested by termites. Baiting method is very specific to targeted pest and have low impact on mammalian. To achieve its efficiency, baits required a small amount of toxicant when compared to soil treatment (barrier treatment)

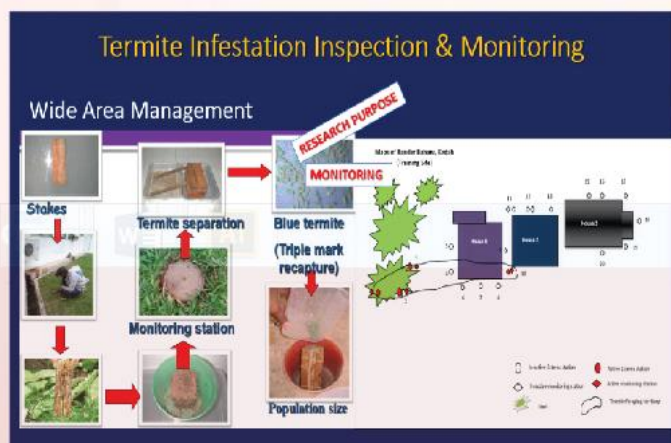


Fig.1: Determine the foraging territory of the termite colony within the inground active station

Termite Foraging Territory

In this study, foraging territory of the termite infestation area was determined first from inground monitoring stations (Fig.1) Once the termite foraging territory area among the active in-ground stations were determine, one of the in-ground active station within the foraging area will be selected for the termite baiting procedure. The social behavior of termite; grooming and trophallaxis will help to transfer the active ingredients to other remining inground active station and eliminate the whole termite colony.

Innovative and practicality

Selected baited termite stations in this experiment would save time for a PMP as they only need to bait one of the active termite stations (Fig.2) Reducing the number of treated stations would also help minimize cost since less bait would be used, making this approach more cost-effective for clients. Thus, this approach may be significantly better than the conventional method in which the PMP treats all the active termite stations because only selected termite stations would be handled using the presented approach, thereby ensuring savings in terms of inspection time and costs. Both methods can eliminate the colonies in the same amount of time.

Selective Termite Baiting Application for Managing Wide Area Infestation¹

Conclusion

Overall, this study found that a termite colony population can be eliminated by selective termite baiting treatment (Fig.3). Elimination of the termite population using selective termite baiting was successful with the aid of the termite behavior of trophallaxis, by which toxicants are shared among termite nestmates. This sharing of toxicant among nestmates circulates the active ingredients throughout the colony, thus eliminating the colony in the process. Regardless of the number of in-ground and above-ground stations, placing bait in just one of the active stations was sufficient to kill the colony because all of the in-ground baiting station and monitoring stations shared the same tunneling pathways leading to the colony. The termite baits needed an average of 4–8.6 weeks to eliminate termite infestation at the study sites.



Fig.2: Sustainable termite management using innovative and selective termite baiting method

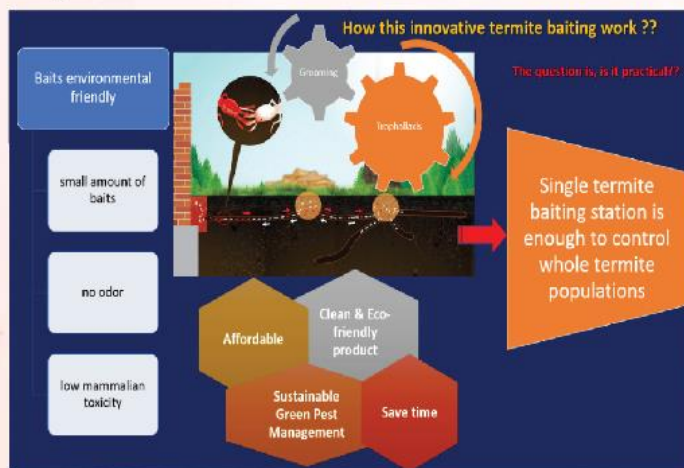


Fig.3: Schematic diagram on the innovative of the selective termite baiting procedure and its efficacy

¹ Source of the original article: Wan Umar, W. A. S., & Ab Majid, A. H. (2020). Efficacy of Minimum Application of Chlorfluazuron Baiting to Control Urban Subterranean Termite Populations of *Coptotermes gestroi* (Wasmann)(Blattodea: Rhinotermitidae). *Insects*, 11(9), 569.

MPMA Welcome New Member for Year 2020 & 2021

NEW MEMBERSHIP 2020

1. GLOBAL SYNERGY CONSULT (ACTIVE) 0470/20
2. RCS AGRI SUPPLIES SDN BHD (ASSOCIATE) 0471/20
3. PESTMASTER (M) SDN BHD (ACTIVE) 0472/20
4. MSZ SEPAKAT PEST CONTROL (ACTIVE) 0473/20
5. IKARI SHODOKU MALAYSIA SDN BHD (ACTIVE) 0475/20
6. ITIFAQ VENTURES (M) SDN BHD (ACTIVE) 0474/20
7. PSJ PEST CONTROL SDN BHD (ACTIVE) 0469/20

NEW MEMBERSHIP 2021

1. GOKLEEN TRADING & SERVICES SDN BHD (ACTIVE) 0478/21
2. GREEN 2 U (EC) SDN BHD (ACTIVE) 0480/21
3. SRI PEST CONTROL (ACTIVE) 0481/21

