

**WEEDS SURVEY AND MAPPING AT CHOK ANAN PLOT IN UiTM
PERLIS FARM**

MOHAMAD HAIRUNIZAM BIN AMIR

**Final year project report
Submitted for partial fulfillment requirement for the degree of
Bachelor of Science (Hons) Plantation Technology & Management
Faculty of Plantation & Agrotechnology
Universiti Teknologi MARA**

JULY 2014

DECLARATION

This final year project is a partial fulfillment of the requirements for the degree of Bachelor of Science (Hons) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

It is entitled my own work and has not been submitted to any other university or higher education institution, or for any other academic award in this university. Where use has been made of the work of other people it has been fully acknowledge and fully referenced.

I hereby assign all and every right in the copyright to this work to the Universiti Teknologi MARA, which hence forth shall be owner of the copyright in this work and that, any reproduction or use in any form or by any means whatsoever is prohibited without a written consent of UiTM.

Candidate's signature:..... `Date.....

Name: MOHAMAD HAIRUNIZAM BIN AMIR

I hereby declare that I have read, checked this project and in my opinion, this project is adequate in terms of scope and quality of the award of the degree of Bachelor of Science (Hons) Plantation Technology and Management, Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA.

Signature:.....

Name of supervisor: TUN MOHD BAKLI BIN DAAI

Position: SENIOR LECTURER

Date:.....

ACKNOWLEDGEMENT

Assalamualaikum

Alhamdulillah, thanks to Allah for the strength, inspiration and encouragement that had been given to me to complete my final year project. Special thanks to my supervisor Mr Tun Mohd Bakli bin Daai and my co-supervisor Mrs Siti Aminah bt Anshah for their supervision, advising and commitment during the research. Thanks to all lecturers especially Mrs Erniza Suhana bt Mokhtar and friends for their willingness to guide and help and shared valuable information and knowledge in order for me to complete my final year projects. I also would like to express my appreciation to all UiTM Perlis staff especially those at UiTM Perlis Farm for all commitment given. Finally I would like to thank all my beloved families for their supports. I feel indebted to everybody involved directly or indirectly in helping the completion of the project.

MOHAMAD HAIRUNIZAM BIN AMIR

ABSTRACT

WEEDS SURVEY AND MAPPING BY USING GPS AT CHOK ANAN PLOT IN UiTM PERLIS FARM

This study was conducted to identify, map out dominant weeds and evaluate the current and propose new weed management program in Chok anan plot of UiTM Perlis Farm. These study was conducted commencing from January 2014 until March 2014. Eight weeds species were identified, *Tridax procumbens*, *Asystasia Intrusa*, *Mimosa Pudica*, *Ageratum conyzoides*, *Ischaemum rogosum*, *Calapogonium mucunoides*, *Mimosa invisa* and *Paspalum conjugatum*. Only seven weeds species were considered dominant in Chok anan plot excluding *Paspalum conjugatum* and weeds point distributions map and interpolation map were created to show the distributions of dominant weeds species by using ArcMap 10 software. From the evaluation of the dominant weeds in Chok anan plot in descending order were *Tridax procumbens*, *Asystasia Intrusa*, *Mimosa Pudica*, *Ageratum conyzoides*, *Ischaemum rogosum*, *Calapogonium mucunoides*, *Mimosa invisa* and *Paspalum conjugatum*. In the nutshell invasive weed species recorded the highest dominant level which depicted the seriousness of the weeds species in the Chokanan area. Current weeds management regimes failed to efficiently manage weed populations dynamics in the area and new weed management regimes such as precise weed management or intergrated weeds management is needed to manage weed population dynamics in the Chok anan plot in UiTM Perlis.

ABSTRAK

KAJIAN DAN PEMETAAN RUMPAI DI PLOT CHOK ANAN UiTM PERLIS DENGAN SISTEM KEDUDUKAN GLOBAL

Kajian ini dilaksanakan untuk mengenalpasti rumpai dominan, melakukan pemetaan rumpai dominan dan penilaian terhadap regim pengurusan rumpai semasa di kawasan penanaman chok anan UiTM Perlis. Kajian ini dijalankan dari bulan Januari 2014 sehingga Mac 2014. Lapan jenis rumpai telah dikenal pasti, *Tridax procumbens*, *Asystasia Intrusa*, *Mimosa Pudica*, *Ageratum conyzoides*, *Ischaemum rogosum*, *Calapogonium mucunoides*, *Mimosa invisa* dan *Paspalum conjugatum*. Hanya tujuh jenis spesis rumpai dikenalpasti sebagai rumpai dominan dan tidak termasuk *Paspalum conjugatum* dan peta titik penyebaran rumpai dan peta interpolasi spesis rumpai dominan telah dilakar menggunakan perisian ArcMap 10. Daripada penilaian yang dilakukan rumpai yang dominan di kawasan penanaman Chok anan UiTM perlis dalam turutan menurun adalah, *Tridax procumbens*, *Asystasia Intrusa*, *Mimosa Pudica*, *Ageratum conyzoides*, *Ischaemum rogosum*, *Calapogonium mucunoides*, *Mimosa invisa* dan *Paspalum conjugatum*. Kesimpulanya spesis invasif mendominasi kawasan penanaman Chok anan UiTM Perlis dan ia memberi gambaran tentang masalah rumpai di kawasan tersebut. Regim pengurusan rumpai semasa telah gagal untuk mengurus populasi dinamik rumpai dengan baik dan regim pengurusan seperti pengurusan rumpai secara tepat dan pengurusan rumpai bersepadu perlu dilaksanakan untuk menguruskan perubahan rumpai di kawasan penanaman chok anan UiTM Perlis.