

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

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

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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.

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Date:.....

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## 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.