

EFFECT OF DROUGHT CONDITION ON OATS PLANTS

A

Dissertation

Submitted to KMV college, Jalandhar

In partial fulfillment for the degree of

Master of Science

In

Botany



Under the supervision of

Mrs Deepika Vashistha

By

Diya Andotra

KMV college, Jalandhar

June, 2023

Diya

ACKNOWLEDGEMENT

Every work requires patience and hard work to be completely successful. No matter how much time we have spent for any work but the quality of your work matters that we have done. On the completion of this work firstly I would like to pay all my respect to the almighty GOD who is supervisor of everything and all the achievements that I have gained till now. I firstly dedicate and put all my work beneath the supreme feet of GOD.

Next I would like to pay my humble and sincere thanks to my admired guide, Mrs Deepika vashishtha who always gave me his valuable time and provided his time to time guidance for the completion of this project. His innovative ideas, suggestions and timely inspections helped me to complete this project on time.

I am immensely thankful to **Dr. Atima Sharma Dwivedi** (Principal), KMV College, Jalandhar, for providing us one of the best facilities and support. I am also very grateful to Assistant **Prof. Mrs. Shikha vashisht** (Head of department) for her kind help and support and allowing me to carry out my work. I would also like to acknowledge all my faculty members for their massive support throughout my M.Sc. studies in KMV College. I feel very proud to say thanks to my friends who also gave their support and many ideas to make my work more successful and better.

In the end, I would love to pay my appreciation to my loving parents who gave their unconditional support, wishes and encouragement for the completion of my project work. Lastly, I feel very lucky, blessed and honored for all those people that I have been during the course of this project that has made this project a great success.

Date : 2/6/23

Diya Andotra

Acknowledgement

First and foremost, we would like to express our gratitude to our Mentor, Mrs. Shikha Vashisht who gave us a continual source of inspiration. she pushed us to think imaginatively and urged us to do this project without hesitation. Her vast knowledge, extensive experience, and professional competence in Science enabled us to successfully accomplish this project. This endeavour would not have been possible without her help and supervision. We could not have asked for a finer mentor in our studies. This initiative would not have been a success without the contributions of each and every individual. We were always there to cheer each other on, and that is what kept us together until the end.

I'd like to thank The University of kanya Maha Vidyalaya for providing me with the opportunity to work on the project (Experimental study on Hydrilla verticillata under different waste chemicals mixture and determine the Ph ,chlorophyll & carbohydrate). Last but not least, I would like to thank my Principal mam prof. Dr Atima Sharma Dwivedi and mentor Mrs Shikha Vashisht , who helped me learn a lot about this project. Her ideas and comments aided in the completion of this project.

I am grateful to the college administration for providing me with such a significant chance. I believe I will participate in more such activities in the future. I guarantee that this project was created entirely by me and is not a forgery. Finally, I'd like to express my gratitude to my parents and friends for their excellent comments and guidance during the completion of this project.

Priyanka

Priyanka
2/6/23

Priyanka
2/6/23

**INFUNENCE OF DIFFERENT MYCHORRHIZAL
INOCULATIONS ON GROWTH, CHOROPHYLL CONTENT
AND CARBOHYDRATE ACCUMULATION IN CHICKPEA
VARIETIES**

A PROJECT REPORT
Submitted to the
DEPARTMENT OF BOTANY
2023

AMITA
21215200002
M. Sc. Botany (Sem IV)
Kanya Maha Vidyalaya, Jalandhar

Sandeep Surt

ACKNOWLEDGEMENT

I would like to express my deep gratitude and appreciation to all those who made it possible for me to complete this report. First and foremost, I want to extend special thanks to Mrs. Shikha Vashisht, our head of department, for providing us with the opportunity to undertake this project. Secondly, I am immensely grateful to my guide, Dr. Sandeep Singh, for giving me the invaluable opportunity to work on this wonderful project. His assistance, insightful suggestions, and constant encouragement were instrumental throughout the fabrication process and in the writing of this report. I would also like to express my sincere appreciation to those who dedicated their time to proofread and correct my numerous mistakes. Their effort has greatly contributed to the quality of this report, and I am truly thankful to them.

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Lastly, I want to convey my heartfelt appreciation to my parents for their patience and unwavering support throughout this endeavor. Their unconditional encouragement and provision of everything I needed have been crucial to my success.

AMITA

Amita
2/06/2023

SUBMITTED TO DEPARTMENT OF BOTANY
FACULTY OF LIFE SCIENCES
KANAYA MAHA VIDYALAYA, JALANDHAR
IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF
MASTERS OF SCIENCE
IN
BOTANY



SUPERVISED BY -
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SUBMITTED BY -
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(21215200003)

Sandeep

DEPARTMENT OF BOTANY
KANAYA MAHA VIDYALAYA
JALANDHAR

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MEGHA

Megha
2-6-2023

SUBMITTED TO DEPARTMENT OF BOTANY
FACULTY OF LIFE SCIENCES
KANAYA MAHA VIDYALAYA, JALANDHAR
IN PARTICAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF
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IN
BOTANY



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SUBMITTED BY -
Komal Banalch

DEPARTMENT OF BOTANY
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JALANDHAR

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Komal

Komal Banalch

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KANAYA MAHA VIDYALAYA, JALANDHAR
IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF
MASTERS OF SCIENCE
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BOTANY



SUPERVISED BY -
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SUBMITTED BY -
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DEPARTMENT OF BOTANY
KANAYA MAHA VIDYALAYA
JALANDHAR

Sandeep

Acknowledgement

I would like to express my gratitude and appreciation to all those who gave me the possibility to complete this report. Firstly, I would like to express special thanks to our head of department Mrs. Shikha Vashisht, who gave us such opportunity to perform this project. Secondly, I would like to express my special thanks of gratitude to my guide Dr. Sandeep Kaur, who gave me the golden opportunity to do this wonderful project, whose help, stimulating suggestion and encouragement helped me in all the time of fabrication process and in writing this report. I also sincerely thanks for the time spent proofreading and correcting my many mistakes. I came to know about so many new things I am really thankful to them. I would also like to extend my gratitude to principal mam prof. (Dr.) Atima Sharma Dwivedi for providing me with all the facility that was required. I would also like to expand my deepest gratitude with much appreciation the crucial role of staff in mechanical laboratory, who gave me a permission to use the lab equipment and also the machine and to design the drawing and giving a permission to use all the necessary tools in the laboratory. I would also like to expand my special thanks to all who have directly and indirectly guided me in writing this project report. Many people, especially my classmates have made valuable comments, suggestion on this project report which gave me the inspiration to improve my case study. Lastly I am indebted to family for their unwavering support, encouragement, and understanding throughout the duration of this research. Their beliefs in my abilities and their constant motivation have given me the strength to overcome challenges and persevere.

Shuubhneet Kaur

Shuubhneet Kaur
2/6/23

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FACULTY OF LIFE SCIENCES
KANAYA MAHA VIDYALAYA, JALANDHAR
IN PARTICAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF
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IN
BOTANY



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SUBMITTED BY-

SABA SALARIYA

**DEPARTMENT OF BOTANY
KANAYA MAHA VIDYALAYA
JALANDHAR**

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Saba Salariya 2/08/23

EFFECT ON NaCl TREATMENT ON OAT (*AVENA sativa*)

SUBMITTED TO DEPARTMENT OF BOTANY

FACULTY OF LIFE SCIENCES

KANAYA MAHA VIDYALAYA, JALANDHAR

IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE

DEGREE OF

MASTERS OF SCIENCE

IN

BOTANY



SUPERVISED BY -

Mrs. Deepika Vat

SUBMITTED BY- Shweta

21215200010

DEPARTMENT OF BOTANY

KANAYA MAHA VIDYALAYA

JALANDHAR

Deepika

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Shweta

SHWETA

Effect of drought conditions in oats plant

Muskan

224926

A dissertation submitted in partial fulfillment of the requirements of GNDU university
for the degree of MSc botany.

Devika

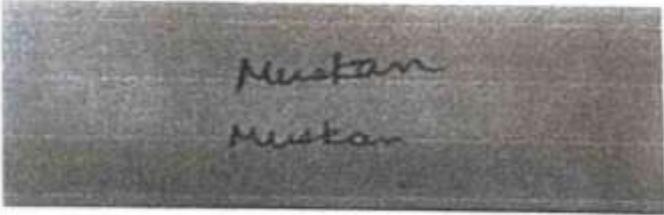


Edit with WPS Office

Declaration

This is to certify that Muskan student of Msc botany has completed dissertation entitled Effect of drought conditions on oats plant which is being submitted to Kmv college . To the best of my knowledge this work has not been submitted in part or in full to any other university or Institute for the award of any degree.

The dissertation has been approved by duly constituted committee after the oral examination in collaboration with external examiner.



Muskan
Muskan

SUBMITTED TO DEPARTMENT OF BOTANY
FACULTY OF LIFE SCIENCES
KANAYA MAHA VIDYALAYA, JALANDHAR
IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE
DEGREE OF
MASTERS OF SCIENCE
IN
BOTANY



SUPERVISED BY -

Mrs. SHIKHA VASHISHT

SUBMITTED BY-

Mala Thakur

**DEPARTMENT OF BOTANY
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Mala Thakur
Mala Thakur 2/June/23

**INFUNENCE OF DIFFERENT MYCHORRHIZAL
INOCULATIONS ON GROWTH, CHOROPHYLL CONTENT
AND CARBOHYDRATE ACCUMULATION IN CHICKPEA
VARIETIES**

A PROJECT REPORT

**Submitted to the
DEPARTMENT OF BOTANY**

2023

MEHAK

21215200009

M. Sc. Botany (Sem IV)

Kanya Maha Vidyalaya, Jalandhar

Sameer Singh

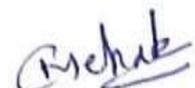
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MEHAK

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CHLOROPHYLL CONTENT AND CARBOHYDRATE ACCUMULATION IN
CHICKPEA VARIETIES**

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Dissertation

Submitted to KMV College, Jalandhar

Master of Science in Botany

Under the supervision of Dr. Sandeep Singh



Submitted by Deepika Sharma

M.Sc. Botany

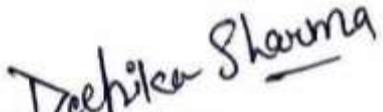
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Date 02, Jun, 2023.


Deepika Sharma

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CHOROPHYLL CONTENT AND CARBOHYDRATE ACCUMULATION IN CHICKPEA
VARIETIES

A

Dissertation

Submitted to KMV College, Jalandhar Master of Science in Botany

Under the supervision of Dr. Sandeep Singh



Kanya Maha Vidyalaya
(KMV) Jalandhar

'STAR COLLEGE STATUS' by DBT, Govt. of India

Submitted by Ishrat Awan

School of life sciences

M.Sc. Botany

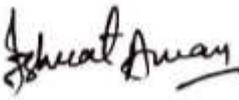
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Date 02-06-2023


Ishrat Awan