

**TRANSACTIONS OF THE MINNESOTA
STATE HORTICULTURAL SOCIETY.
PROCEEDINGS, ESSAYS, AND
REPORTS AT THE ANNUAL WINTER
MEETING HELD AT MINNEAPOLIS,
JANUARY 18TH, 19TH AND 20TH, 1881**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649537419

Transactions of the Minnesota State Horticultural Society. Proceedings, Essays, and Reports at the Annual Winter Meeting Held at Minneapolis, January 18th, 19th and 20th, 1881 by U. S. Hollister

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

www.triestepublishing.com

U. S. HOLLISTER

**TRANSACTIONS OF THE MINNESOTA
STATE HORTICULTURAL SOCIETY.
PROCEEDINGS, ESSAYS, AND
REPORTS AT THE ANNUAL WINTER
MEETING HELD AT MINNEAPOLIS,
JANUARY 18TH, 19TH AND 20TH, 1881**

TRANSACTIONS
OF THE
MINNESOTA
STATE HORTICULTURAL SOCIETY.

PROCEEDINGS, ESSAYS AND REPORTS

AT THE

ANNUAL WINTER MEETING

Held at Minneapolis, January 18th, 19th and 20th, 1881.

PREPARED BY U. S. HOLLISTER,
SECRETARY.

ST. PETER:
J. K. MOORE, STATE PRINTER.
1881.

CONTENTS.

	Page.
Officers for 1881	16
Executive Committee	16
Delegate to Miss. Valley Horticultural Society	16
" " Wis. State " " 	16
" " Minn. State Agricultural Society	17
Committee on Seedling Apples	17
" " Summer Meeting, Lake City	17
" " Legislation	17
" " Experimental Farm	17
General Fruit Committee	18-19
Committee on Nomenclature	19
Members for 1881	20-21
Honorary Members	21
Life " 	21
Programme Winter Meeting, 1881	22-23-24

TUESDAY MORNING.

Address of Welcome, by Gen. Nettleton	25
Response, by John S. Harris	25
Introduction of Prof. Porter	26
" " Geo. P. Peffer	26

TUESDAY AFTERNOON.

Committee on Ornamental Trees and Shrubs	27
Address of Pres. Grimes	27
Definition of Horticulture	27
Tree Dealers	28
Change in Orchard Products	28
Result of Winter of 1855	29
Tree Peddlers	28
Blight	30
Our Work	31
College Farm	31
Cane Growers' Association	32

	Page.
Miss. Valley Hort. Soc.	32
Commissioner of Agriculture	32
Insects	33
Birds	33
Report of General Fruit Committee	34
" G. W. Fuller, Meeker County	34
" John S. Harris, Houston County	34
" J. N. Nordquist, Goodhue County	36
" O. Gibbs, Jr., Wabasha County	36
" F. G. Gould, Hennepin County	39
" G. H. Fish, Stearns County	39
" W. I. Matthews, Big Stone County	39
" on Catalpa Spinosa	40
Discussion of Reports	40
Splitting of Trees	40
Cause of Winter killing	40
Transfusion of Sap	41
Bark Bursting	41
Animal and Vegetable Physiology	41
Directory of Nurserymen, &c.	41
Sharpless Strawberry	42
Mr. Crawford's Paper—Strawberry Culture	42
Distance apart	43
Selection and Preparation of Soil	44
Planting with Corn	44
Manure	44
Picking and Marketing	44
What Kinds to Plant	44
Discussion	46
Strawberry List as Revised	47
Mr. Boxell's Paper—Apple Trees and Climate	47
Causes of Killing	48
Theory of same	48
Discussion	49
WEDNESDAY MORNING.	
Mr. Harris' paper.—Grape culture for Minnesota	50
History of the vine	50
Soil and preparation	51
Pools	52

CONTENTS.

v

	Page.
Distance	52
Cuttings and planting.....	52
Pruning	53
Rooted plants.....	53
Propagation	53
Varieties to plant.....	55
Discussion.....	55
Planting on new land.....	55
Reports of loss of vines.....	56
Covering.....	57
Mr. Freeman's paper.....	57
Cultivation of fruits a necessity for the northwest.....	57
Our climate.....	57
Distance and training.....	58
Pruning and pinching.....	59
Varieties.....	59
Discussion.....	59
Material for covering grapes in winter.....	59
The Botany of Minnesota and its relations to fruit culture.....	59
Mr. Harris' paper on same.....	60
Lists of native trees and shrubs.....	60-61

WEDNESDAY AFTERNOON.

Report of committee on President's address, 1880.....	61
List of Horticultural publications.....	63
Mr. Gibbs' paper—Improvement of crab trees by top grafting.....	64
Advantages	64
Blight.....	64
Management.....	65
Best roots to graft.....	66
Discussion.....	66
Time required to change the character of a tree.....	66
Lumps at junction of graft.....	67
Flow of sap. Ligature.....	67
General circulation in trees.....	67
Report of committees on Russian apples.....	68
Mr. Underwood's report.....	68
Mr. Sias's report.....	68
Mr. Grimes' report.....	68
Mr. Latham's report.....	69

	Page.
Discussion.....	69
Report of committee on seedling apples.....	69
Mr. Day's report.....	69
Mr. Gould's report.....	70
Mr. Pearce's report.....	70
Mr. Harris' report.....	70
Report of committee on experimental farm.....	70
Losses.....	71
Apples.....	71
Strawberries.....	71
Grape vines.....	71
Pear trees.....	71
Pears on mountain ash stock.....	71
Russian apples.....	72
Mr. Emery's paper. Failures in horticulture.....	73

WEDNESDAY EVENING.

Apple list as revised.....	76
Grape list as revised.....	77
Raspberry list as revised.....	77
Currant list as revised.....	77
Gooseberry list as revised.....	78
Plum list as revised.....	78
Mr. Mendenhall's paper. Entomology.....	78
Squash bug.....	78
Striped Bug.....	79
Squash Borer.....	79
Pickle Worm.....	80
Insecticides.....	80
Mr. Harris' paper—Insect depredation in S. E. Minn.....	81
Cabbage Worms.....	81
Codling Moth.....	82
Remedies.....	83
Mr. Harris' paper, New Rose Beetles.....	83
Discussion.....	84

THURSDAY MORNING.

Meeting in Chapel of University.....	85
Mrs. Atwater's paper 'Winter Treatment of Roses'.....	86

CONTENTS.

vii

	Page.
Time of Planting.....	87
Pruning.....	87
Fertilizers and Cultivation.....	88
Busybodies pro and con.....	88
Varieties and their Qualities.....	89
Mrs. Van Cleves' informal address.....	92

THURSDAY AFTERNOON.

Report of the Committee on Evergreens.....	92
" " " " " Ornamental Plants, Shrubs and Trees.....	93
Secretary's Report.....	94
Election of officers.....	96
Election of committees and delegates.....	97
Mr. Grimes' report.....	97
Mississippi valley horticultural society.....	97
Mr. Gibbs' proper education in horticulture.....	100
Mr. Humphrey's paper.....	102
Evergreens about our homes.....	102
Mr. Gibbs' paper. Evergreens.....	105
Discussion. Evergreens.....	107

THURSDAY EVENING.

Miss Shares' paper.....	108
Out-door and in-door culture of flowers.....	108
Culture of house plants.....	110
Discussion.....	112
Winter protection of fruits.....	112
Burning over strawberry beds.....	112
Discussion—Cultivation or grass in orchards.....	113
Report of committee on final resolutions.....	113
Topics for discussion in winter meeting—1881.....	114
Report of J. M. Underwood.....	115
Delegate to Wisconsin State Horticultural meeting.....	115
Report of committee on taxing nursery stock.....	116
Report of committee on exhibiting.....	117
Apples and crabs.....	117
New varieties of potatoes.....	117
Report of Olmsted County Horticultural society.....	119
Lake Pepin Farmers' Institute and Horticultural society.....	121
U. S. Hollister's address before the same.....	121-129

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37