

PAGE.
with hand milking for quality of butter, 64—Pasteurizing milk for butter making, 65—Pasteurized cream, 66—Moisture in butter, 66—Temperature for ripening cream, 66—Different percentages of starter used to ripen cream, 67—Effect of washing butter, 68—Quality of butter made with centrifugal dryer, 68—Dairy school, 69—Dairy stock, 69—Miscellaneous dairy notes, 71—Bulletin: Fodder and spring cheese, 71—Bulletin: The curing of cheese, 72—Bulletin: The winter creamery, 74—Milk tests, 78—Square cheese, 79—The milking machine, 79—The air process of butter making, 79—Working over old butter, 80—Dairy and Institute meetings, 80—Testing cows, 80—Improvement during the year, 80.

PART VII.

REPORT OF THE AGRICULTURIST:

Experiments in cattle feeding, 81—Different qualities of meal for fattening steers, 81—Sweet and dent corn for milch cows, 83—Experiments in pig feeding, 85—comparison of sweet and sour whey, 85.	81
---	----

REPORT OF THE HORTICULTURIST:

Lectures, 91—Practical work, 91—The orchards, 92—Small fruit plantations, 95—Testing varieties of strawberries, 95—Vegetable garden, 102—Lawns and grounds, 102—Test of varieties of geraniums for bedding, 104—Forest tree plantation, 112—Greenhouses, 116—Inspection of Fruit Experiment Stations, 118—Co-operative Fruit Testing, 118—Meetings attended, 120.	91
---	----

PART VIII.

REPORT OF THE BACTERIOLOGIST

Teaching, 121—Laboratory work, 121—Foul brood, 122—Equipment, 122—Meetings attended, 122—Microscopic botany, 122—The effect of spraying Bordeaux mixture on foliage, 125—Machine milk vs. hand-drawn milk, 128—Effect of germs isolated from machine milk on the flavor and other qualities of butter, 138—Machine-drawn milk for cheese making, 141—Bad flavor in cheese caused by undesirable bacteria in water, 141—Tuberculin, 144—Milk from tuberculous cows, 147—Library, 149.	12
--	----

PART IX.

REPORT OF THE EXPERIMENTALIST:

The weather, 153—Experimental grounds, 154—Barley, 154—Peas, 158—Spring wheat, 162—Winter wheat, 164—Oats, 171—Spring rye, 174—Buckwheat, 176—Beans, 177—Grain sown in mixtures for production of grain and straw, 178—Spring grain, selection of seed, 179—Sound and crack peas for seed, 181—Peas, large and small seed, 182—Seed peas injured by the weevil, 182—Selection of seed for four years in succession, 183—Selection of seed oats five years in succession, 183—Spring grain, different dates of seeding, 184—Experiments with potatoes and field roots, 186—Potatoes, 186—Swede turnips, 186—Fall turnips, 190—Mangels, 198—Carrots, 195—Sugar beets, 198—Parsnips 199—Kohl-rabi, 199—Mangels, carrots, sugar beets and turnips sown at different depths, 200—Mangels, carrots and turnips thinned at different stages of their growth, 201—Mangels, carrots and turnips grown on the flat and on ridges, 201—Mangels, carrots, sugar beets and turnips grown from different selections of seeds, 202—Application of fertilizers to turnips, 202—Silage and fodder crops, 203—Corn for fodder, silage and grain, 203—Millet comparative test, 204—Mixed grains for green fodder, 205—Sunflowers, 206—Fodder crops, 207—Rape, kale, etc., 207—Clovers, 209—Grasses, 210—Permanent pasture, 210—Co-operative experimental work, 212—Miscellaneous crops, 212—Crops for experiments in feeding, 213.	152
---	-----

PART X.

REPORT OF THE FARM SUPERINTENDENT:

Rotation of crops, 215—Crops raised, 215—Fall cultivation, 217—Live stock, 217—Practical instruction, 220—Financial statement, 220.	215
---	-----

REPORT OF THE
Diseases of
228—Differences

REPORT OF THE
The exper-
found
spring
cham-
tion a

REPORT OF THE

INDEX

NINETEENTH
UNION.