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INDEX.

		The state of the s	PAG
_	Asphotel, &c. Agricultural Show	Planting of the Noon To Stop 143	Cake, Soda Loaf, To make 3
A PAGE	The state of the s	Bleeding of the Nose, To Stop	Clore To make
Aberdeen Cattle Trade	Auction Sales of Valuable Stock, 315	Bicserie's Wooden Brans, 150, 165 Bilstered Feet and Hands, 175 Board of Agriculture, Heeting of . 07, 89, 202 Brans, Mr. Bicson's . 120, 163 Bones, Practured . 213	— Delicate, To make Caked Veder, 24
Acclimatization of Bees,	Ayrslaro Cow sent to Airica. 38	Board of Agriculture, Meeting of 57, 89. 202	Caked Udder, 24
Action of Plaster as a Fertilizer,	Ayrabiro Cows	Dmins, Mr. Biesanl's	Caked Big in Cons
of Light on Honey	• • • • • • • • • • • • • • • • • • • •	Bones, Practured	Calendar, Remarks as to a Monthly 4 Cale without Legs
of itust 367	${f B}$		Call willout Leggeresses
Act as to Government of Agricultural Societies 40	m 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bone Dust as Manure	—— Raising the
- of Parliament relating to Agricul. Soct's 40	Back Numbers, Our	Sarvia 59	Feeding 11
Active Old Furner, An	533	Book-keeping for Farmers, 40	On rearing 182, 19
Address of Retiring Press of Prov. Ag. As. 295, 374	Balsams, Boublo Flowered	Borny, Virtues of	Feeding
Advertising Land for Sale	Ball's Resper and Mourt 169	Borer, Habits &c. of the 211	California Potatoes,
Azolan Harp, To meke an 302 Ago of Sheep, To tell 37	Bantam's, 189	A New Remedy for the 157	Big Trees of 20
Ago of Sheep, To tell	Barometers, 152 — (with cuts), 222 Bar Horse-shee, The. 59	Boiled Binner, A	Calladian Agricultures, 100 Lite,
Agriculture, Primo Principles of 18	Com The color,	Bassley Commit Car Carbod 158	Horses 13
in Great Britain, State of	Darlay for Hona!	Ramas and Pennsi	Cattle
Board of 57 Foods and Clothes us 127	Barley for Hend	Bound Volumes, Our	Canada Thietle, 19, 41, 51, 82, 131, 147, 179,
Amiguitured and Catarinary Instruction 374	and Wheat grown from Unis 355	Boquets to England, 236	291, 337, 31
College lu Pennsylvania 10	Barn ⁴	A New Rementy for the 157 Robel Dinner, A 62 Boiling Food for Hogs 134 Bottles, Cement for Corked 158 Borago and Feunel 537 Round Volumes, Our 53, 361, 373 Roquets in England, 230 Boys' Corner and Ladies' Column, 230 Robus Korks	
Michigan,		Brahma Fowls 174, 316	at Red River
Kansas 122	Baron Solway, (with Cut)	Bread—White and Brown, 62 Brown 169, 209, 202 and Bread Making, 190	as a Field furthe Caultains France 13
- Progress in Berwickshire, 34	instant from Solvay, (with City).	and Recod Viling	Cancer Remedia for
Societies for 1864, Officers of 42 255	Hark, Tan. 34 Lico on Apple Trees, 230	Wholesame 158	Candles, To make
Schools, Where are any 73	Bates, The Late Joshua, Amerdote 360	Wholesome	Cauino Newsman,
man Legislation	Rathing Establishment, Toronto		
- Papers in the Lower Provinces, 120	Bean Experiment, A 241	First Lesson in Scientific Architecture, 58	Carrots for Horses,
Papera 191	Bean Experiment, A	Cultivator's Guide, 53 Ganadian Emigrant Housekeeper's Guide, 90	Carriages on morses and Bodds, Edocis of . 22
Museum, 167 Tour by Prof. Buckland, 200, 239	Heart, Raising	The Practical Shorherd	Care, and Profits of Sheep
Springs of England's Show 219	1 As a Field Crap	The Practical Shepherd	Carpete, To Clean 13 Carnation, The Perpetual 2
" Saotland's "	As a Field Crop	Picuro-Pneumonia	Carnation, The Perpetual 27
" Saotland's "	Asparague,	Journal of Board of Arts, &c., 122	Cast fron Sugar Pans, 32 Car Catching Chickens, To Cure. 23 Catcrpillar, Tent (with Cuts). 23
Enigmas 257	Bear's wood and Service 220	British American Magazine,	Cat Catching Chickens, To Cure
Croakers Rebuked 251	Branty in Stock,	American Artisan,	Caterpatar, Tent (with Cum)
Alabia an Halmat Claren	Hed Bugs, To destroy94, 211, 350	American Artisan, 220 Sheep, Swine, and Poultry, 229 Canadian Church Harmonist, 220	Caternillars, A Trap for
MSRC OF MYDRIC CHOPER,	B d Rooms, Our	Cream of Scottish History	- Itad news for the
		Calasians from Canadian Basta 951	Cattle in Winter, Neglect of
Alpino Orchida	Bees, Wintering	Breeder and Grazier-Opening Remarks 4	Fair at Guelph,
Alderney Cow, Good Produce from an 1(2	Acclamatization of 8	Breeding and Repring of Sheep	Caterpinar, Ten (with Cuss). A New 20 Caterpinars, A Trap for 23 Bad news for the 20 Cattle in Winter, Neglect of Farr at Guelph. Belative Nourishment in Food for 32
Liciters, Precocity of	Blees, Wintering. 3, 120, 372 Blees, Wintering. 3, 120, 372 — Acclamatization of 3 — Orders of with cut 1 19	and Matching Horses 357	i Clumower Flames Growdbassesses accesses to
Aipaca and Llama in Scotland, 292 Amaryllis, Culture of the 278	Wax, to make White	and Feeding Hogs 101 Breeds of Sheep, Cost of Keeping different. 151	Causo of Inferior Stock, 23 Cellery, How to get Good 15
Amateur Farmer,			Cellars
American Pomological Society	Hives, Straw	Bretonne Cows 255	Coment for Leaks,
State Fair,	Hives, (with cuts), 104	Brighton and Cramabe Farmers Club 574	for mouths of Corked Bottles, 13
Applysis of Exercia of Bees	Management, Delects in 120	Britannia Metal, To Chan	Cometeries, To Ornament.
		Broom Corn 121 179	Carast & Nam 3
Animals, Cruelty to	Lamma Birthanna anna anna 155	Brush Firewood	Cereals, Early Reaping of
Abother Crass to		Buckland's Agricultural Tour, Prot 206, 239	Change of Seed Grain, 52, 242, 260, 2
Auti Canada Thistle Dill, 69, 121, 137	and Grape 187	Buckthorn as a Hedgo Plant, 29	of Set in the Bee,
Antidotes, Quick. 94 Ants and their Cows, 133	Hites, Weak and Strong 187 - Recping, Improved, vs. Old Fashtoned, 203	and Meal for Sheep	of our Office,
To get rid of	1 ID [AUISIAD]	Etil Effects of	Chapped Hands
To drive away 203	Gloves, India Bubber, 232 Glue, or Propoles. 237	- Controversy, The	Chapped Hands Cheshiro Dairy Farm, 3
Appropria in a Colt	- Glue, or Propole 237	Tail Initrium P	Chairs, Proper Shape of
Answers to congress,	- and the He ary Hirsest	- as a Green Manure	Charcoal to Roots of Roses,
Annual Meeting Provincial Agricultural Ass'n, 253	Freak of 247	Qualities of	Cheen Grane Trellie
in Anni	Profits in 18ds, 247 Hives, Thomas' 263	- for Milk Cous, 245	Cheap Grape Trellis
Apiary Opening remarks. 3 in April, 101 Apple Growing, Profits of. 10, 60	- Moth and Suder 264	Budding Fruit Trees, (with Cuts) 252	Cheapest Way of Feeding Pork 37
Atthia Kark Lanco	Have, The liest,	Bulb and Bouquet Glases, (with Cuts) 28	Cheese making
Trees On Planting 29 152 76	- lives, and Bee Masters,	Budding Fruit Trees, (with Cuts). 252 Bulb and Bouque Glasses, (with Cuts). 28 Bulbs in Pots. 45	— and Bono Dust,
Trees, Yield of 70 Trees in stiff clay soils, 142	Keepers, Warmug to	for Winter Flowering, 315	
Coop Limits of the	1 Non-Swarming of	Ropping at Large On	in Small Dairies
- Pulls To make 46	- in Wisconsin. 359	- Galloway, (with Cut) 356	- Important requisites in 2
- Trees and Graps Vines, Young 560	Beetles of Prey 217	Butter Making, Hints on	on a Small Scale,
			1 man 10 153000, 35353
Ordanis in Canelon Ch	Paralle of Thin Courses	Making not a Mystery, 166 Increased by Water, 183	Frankling Leavy
Rost Unriation for Worl of	Helis of Shoop, 102 Henefit of Thin Sowne, 242 Berkerry as a Holgo Plant, 25 — The 152 Herwickshire, Agricultural Progress in 34 Rest Receds of Animals in Canada, 56	Refrectory Willely 11	— Turning Reavy, — English and American, — Factories, 24, 70, 102, 245, 2
- st the West	The 152	- Refractory	" Statistics of
Drying 360	Herwickshire, Agricultural Progress in 31	- Purifying Machine, 355	in Canada, 31
- Hardy in vicinity of Cobourg 171	Hest Breeds of Animals in Canada,	- How to Keep 37L	Trade with Great Britain,
			— Poisoning
Apricots Experiments in Growing 219	Climate for Sheep	—— Charcoal a Remedy for	1 of Nan Erminelana
Arboriculture	Big Porters	Burying Bees 342 Bushwhacker Bill 50	Cream
Artificial Swarming, and the Moths, 173	Bird's Eyo View of the Insect World, 719	Dushwhacker Bill	Chess or Cheat, (with cut)
Fish Breeding 223, 232	I Birds and their Gest	Bush-farming on a amail Scale	i caes of chear than call
Architecture, Canadian Farm	Birds, Usefulness of	Burring Boos, Rules for 295	Chess and Wheat
Arnica for Animals,	Bits in Frost Corer	c	Stewed.
Ashes	Bits in Frost, Corer	1	I more TO ESSE Barrers and a second as a second as
Leached 8	for Stoves 94	Cabbage Cooking 46	Chickens and Young Ducks, Care of I
			Chickons and Young Ducks, Care of 1
Asparagus,	Teeth in Swine,	1 — 10 Keep Grubs Off,	Chiang
Bods 020	Risckherries in January	10 Keep Grubs Off, 108, 152 152 153 154 154 155	Children's Foot
Associated Dairies 87	Blackborry, A new	I In Winter, Preserving	Chimney's, Smoky
Association for Cultivating Flax 285	Blackberries, 252	Cabinet of Woods,	Chineso Dwarf Trees, 3
ARRETS (WILL CUI),	Blackthorn for Fences	Cake, Pork, To make	1 The Se

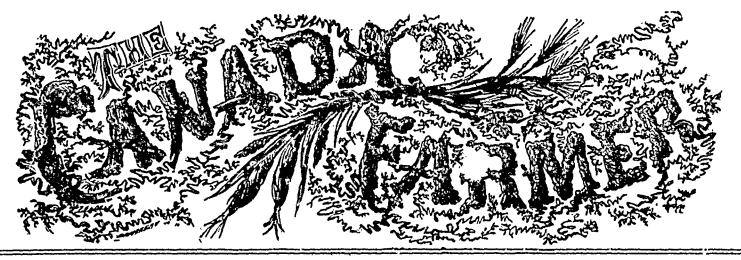
PAG		PAOE	PAGE.
Choked Cattle, Relioving	6 Croys and Prices this Season,	Dorhams going out of Fashion 57	Feeding Calves
Churn, Very Fast 3 Churning in Winter,	8 Croup	Dutch Cheeses 102	— of Cattle, Outdoor
	A I Critelly to Animals	Peas 317	
by Horse Fewer, 46. 1	6 Cucumbers Sixty Acres of	— Pear Trees,	Feet, Our
that will Keep	3 - How to Pickle		Fence Posts, Concrete Setting of
Corener-ter Agricultural College, England .	4 Cultivation of Flax 1	l .	- Liability of Rulway Commenter as to tak
Gistern from Worms, &c., To keep 2 Gisterns, Capacity of	6 — Dep. 3 Cultuating Potatoes 11 6 — Land by Steam, Cost of 19	Ear-ache, Remedy for	Scandinavian, 355
Ofth Searce of Fig. 1	6 - Land by Steam, Cost of	Potatoes, Cornish Mode of Russing 172	Ferrets, 323
and Country during the Day Days. 3 Clay Farms, Manure on	1 Cultivators versus Plongha,	Earth Worm, Respect the 192	Fetlock Joint, Injury to 27 Fibre of the Hop Vine, 215
Clarati Sada	7 Cullit stop The karest could Cutt 34	Earth Worm, Respect the	Field Department Opening Remarks 2
Clean Seed. Choming Milk Vissels. — Canaries. Cleary, Hornculture for the.	7 — of the Grape Vine,	Editors should Live Cheeply	— Roller, To Make a 179 — Fence, Cheap 194
Closer Verteellure for the	7 — of the Grape Vine, 6 Curtest Sperin, 133 — 1 Curculo Remedy, 126 Cure for Lice on Cattle, 2	Effect of 2 and 4 Wheel Carriages on Horses and Roads, 223	Fields, Clover Sick, 19 Filberts, 200, 216, 255 Fino Covs, 190
Climate for Sheep, Best	6 Cure for Lice on Cattle, 2	of Marriage,	Fine Cows
of Canada, 5	6 Cure for Lice on Cattle, 22 — Scab in Sheep, 34 5 — Mad Dog Bite 88 1 — Snako or Dog Bites, 94 1 — Loss of Cad. 117 3 — Burns or Scalds 14	Eggs for tlatching,	
Chipping Sheep for Exhibition.	Snake or Dog Bates,	Importation of 254 Preservation of, when Travelling, 254 Good Yield of 316, 330	Wooted Sheep in Illinois, 231 Fining Manure, 34, 101 Fire, Extracation of Horses from 69
Close of Subscription to Canada Farmer, S	1 — Loss of Cad. 117 3 — Burns or Scalds 143	Good Yield of	
Ciale Padda	9 Current Warms . 180	— The Best Poultry for	
Hybrid 19, 19 Cutting and Curing 1	8 Curious Epiteph, 110	Embargo on Import of Live Hogs 137	Silect-horn Cov at "
Pea vine, and other varieties,		Enigmas, Agricultural	— Cotswold Ram at " " 569
and Clover Hay,	(1 Meak	English Horse Beans 99	Thereforecome, minucial,
— of Calvary,	— Corn Folder, 223		
Clubs, Our Charge to	7 Cut Nails, To drive	Patintie in Homes 903	— Ova, Transportation of 254 — and Sea Weed for Manure, 200
— Horse, The	Cuts, Geranium Leaves for	Entomology, 322 Entomological Ramble, 205	Flannels, How to Wash. 190 206
Corn, How John Buil acknowledged the	6 — Wood (see Illustrations)	Society, 186 Epitaph, Curious 110	Flax Culture,
Coal Oil for Sheep Ticks	11 un Pork 200	Errata,	Volce in 351
Cocca Nut Tree at Sun House	Cuttings of Plants, How to Preserve 236	Food Rule for	How to introduce
Cochineal Insects,	D	Grain in the Bin	— Cotton Mill, Ohlo
Cod Liver Oil Jelly	3}	Etobicoke Fall Show	— Cumvation and Manufacture of
Coffee To Make	3 Dahlia, A Treasonable	European Weeds in New Zealand, 209 Evening Primrose, 157	— nt Norval
		Evergreens, 200	— Crop, Good
Colts, Feed and Care of	Handelton, 123 Dark House Unhealthy, A 13 Darlington Spring Fair, 105, 153 Dating of the Canada Farrer, 25 Darry Department, Opening Remarks, 0 Farm, Mr. Pratt's, 7 Farrer, Mr. Contenting Remarks, 21		— Extension of the
Cold, Protection from.	Dating of the Canada Farmer. 25	Ewes, Oil Cake for	- in Grenville County, 122
Grapery, On the.	O - Farm, Mr. Pratt's	Disowning their Lambs,118, 135, 151,	- Growing, Experiment in 34
Colours in Ladies' Dresses	Farking, 6	Remarkable Fecundity of	— in Canada,
Combination Sower and Hoe, 10	in Glostershire, 211 — Cattle, Good. 117	- Curious Facts about 184	— 195, 131, 147
Communications invited, —— Suppressed	Cows, Care of	- New Disease among Lamoing 194, 232 - for the Ram, Selecting	— Experience in
Comments on our Sixth Number, 13	Science in the	Exaggeration	Puller
Complient, A High	Cows, Care of	Exercise for Horses, Dany	— Thread, 67
Compost for light Soils,	in the Sweet Meat Jarg	Excrescence on a Helfer's Ear	Seed, Mill for Grinding
	Dead Animals, How to dispose of 207	The Provincial 138, 248, 280	— for Feeding 303
Contraction of Horses' Feet	S Defi-ed Communications	- New Disease among Lambing. 197, 232 — for the Ram, Selecting. 262 Eneggeration. 248 Exercise for Horses, Daily 123 Excrement of Bees. 237 Excrescence on a Heifer's Ear. 264 Exhibition, To Wash Sheep for. 118 — The Provincial. 133, 248, 280 Explanation, 152, 169 Extent of Agricultural Productions of Canada, 8 Extraordinary Turnip Crop. 373 Experiment in Flax Growing. 34	— items
Condensed Milk,	belays in receiving the Caxada Farmer, 13 Depth of Milk, 24 Derchan Agricultural Society, 267 Do Sora's Great Fowl Establishment, 17, 174 Doisrately of Sheep by Days 25	Extraordinary Turnip Crop. 373 Experiment in Flax Growing, 34	— Transport of
Code of Rose Culture, Short.	Dercham Agricultural Society,	in Sheep Feeding, 262 Experiments in Wheat Culture. 65	Prospects
Cornell's Farm and Stock, Hon E	Do Sora's Great Fowl Establishment	Experiments in Wheat Culture	— and Linen
Keeps best on the Cob,	Destruction of Sheep by Dogs,	• • • • • • • • • • • • • • • • • • • •	- ls it Exhaustivo? 147
in the Cob	Deterioration of Soils,	j F	- Interest, The, Dinner to Messrs. Perino and Young, 362
To Dient Simialit	il Nove Ecomotion of	Facetious Gentleman to Osfler, 127 tilure of Spring Wheat Crop. 34 of Some Wheat Land. 163 of Turnips, &c. 98 Fairs, Timely Notice of 57 Coming 90 50 50 50 50 50 50 50	— Manufacturer, An intending 200
and Barley Meal for Fattening, 31	Diarrhea in Calves, 235 Dicentra Speciabins (with cut), 188 Dickering, 127	of some Wheat Land, 163	- Scutching Mill, (with cut), 209
Corne, To Cure	Dickering	Pairs Timely Notice of	— Harvesting, 211 — versus Wheat 242
Correspondents, To 10	Dinner to Messra Perine and Young 362	Coming 90 Fall Preparation of Land, 259	— in Perth, 243
Cost of Fences, of Keeping different Breeds of Sheep, 85, 15	Directions for Flax Growing	Ploughing, 259 Exhibitions or Shows, 286, 299	In Perth. 243
- of Steam Ploughing, 30	Il Dielika ta Farming 234	Exhibitions or Shows,	— Progress, 318
Cottage Pudding, To Make)! Disease among Sheep	Family Jars 30	— Seed and Oil Cake
	Distillery Manuro,	Farm Architecture (with cuts)	Fleeces Heavy 135 245 Flour, How to Select 110 Flower Ganlen, Preparation for the 142 142 142 143
COMORIZED FIRE	Dividing Sheep Flocks for Winter 6	Pests 67 Products, New 115	Flower Garden, Preparation for the 142
Cotswolds The 34	Dogmatism Definition of	Work for October 274 1	— The
County Fairs, 29 — Societies, Appual Meetings of 2		House, A Cheap	Flowers, Influence of
Country Houses, Hints on 12 — "Gentleman, The" on the Hamilt'n Show 31	Dogs,	- Learning to	- A Succession of 349 Food for Cattle 370 Fold a Dress, How to 78
Air, by Mrs. Partington 32	Dominique Fowls	Farmers of Canada, To the	Fold a Dress, Mow to
Coughing in Horses, 5	Donkeys rs. Mules,	Write1	Forest Management,
Covered Manures,	Double Portulaca (with cut),	Learning to. 361 Farms, Partitioning. 115 Farmers of Canada, To the 8 Write 1. 24 Wood Lot, The. 34 about to Build, Hints to 43 Who don't Read, 47 Library, The. 78 A Hint to. 119 Father, The. 142 Clubs. 152, 153, 322 Club, Brighton and Cramable 374 and the Paint Pot. 321	- Trees, Planting
Cow Kept on Hay, — Milking Machino (with cut),87, 280, 31	Number, Our 299 Flowers, How to have	Library, Tho	Formation of Dew,
— Killed by a Cat, 13 — Tumour in a 29	Drain Tiles and Manure	A Hint to	Four Lambage a Birth
- in Town, Keeping a 37	Tools 230 344	Clubs152, 153, 322	Foxes in Australia,
Cows, to Feed Well,	Tile Machine Wanted,	and the Paint Pot	Freak of Nature. 213
— Ayrshire	Draining (with cuts)	Farming Interest of Canada, The	Fresh Eggs all Winter, 247
(100Q	in Onicksand	Improved in Albany Co., New York, 21 near Hamilton, 73	Frogs, How to Catch
— Fine	— Swamp Lands	a Poor Business,	Frozen Pumps, To Prevent
- for the Dairy, Managing	Tile, 169	Does it Pay?	Limbs, Treatment of
Crecks in Cows Tests 6	Dressed Flax, A Market for	and Farm Life in Canada239, 274	Society of Western New York 42
Cranberry Culture,	Drills, Best way to Make 115	Fat Sheep from Canada	Trees. When to Plant 11
Cranberry Culture,	Droppings from Stove Pipes	- Cattle Show at Guelph	Buying Cheap
Creed of the Farmer,	Drowning Person, How to Save a 158	Fattening Sheop in Winter, 6	— How to Plant
Cremorne Dog Show, 13	Dublin Royal Society	Feathers, to render fit for use,	— Culture
Crimorne Dog Show. 13 Crivo Cœur Fowl, The 20 Cmp of 1863 in England, 7 Reports, Trustworthy. 20	- Rearing and Feeding 143	- of a Sheep, Extraordinary 1841	from Insects, To Preserve
Reports, Trustworthy. 200 Crops, Root. 17	Dundas County Show, 319 Dunnville Fall Show, 319	Paul Come Wall 7 [liea of in the Hot Seeson 45
Rotation of	Dang Heaps, Unnocessary 241	Horses in Winter	in Kent County
in Haldimand, 286	Durham, or Imported Short-horn, 71	in Norway 343	Jers Self-Sealing 267
in New York State 255	Durliam Cattle in France	Values of Grain	- Crop in New York, 238
of Upper Canada, 275		Block	Cako, Cheap306
•	*	****	•

Fruit, Orchard Experience, 26		Improve Poor Stock Farming, How to 343	Jottings by the Way : Prof. Buckland 25
Display at the Provincial Exhibition 30 Fruits for Canada Weet. 34	0 Hazel, The 255	Improved Farming in Albany County, N. Y., 21 —— Stock for New Brunswick 184	Jumping Cattle
Fruitful Stalk of Indian Corn. 10	7 - Covr Kept on	Bee Keeping, versus Old Fashioned 203	Jute as a Substitute for Cotton
Fyfe Wheat, Substitute for		Btock for Stormont County	Juvenilo Papers
G	- Making (with cuts)	India Rubber, To cut	ĸ
Galloway Herd Book	Stacking by Horse-power (with cut) 241	I Indian Com Emilion Stale of	KEEF Stock off Meadows in Spring 8
- Breed at home	Healthy Children 291		— Butter, How to
Galt Spring Seed Fair Gatto Cock outdone	Heat, Value of	In-door Flower Culture 316	Potatoes through the Winter 350
- and Brahma Fowls compared 10	Heavy Leicester Fleeces. 201	Inferior Stock, Cause of	Key to Epitaph on Page 110
		Inflammation after Lambing 58	Kicking Cow. Cure of a
Gableners' Improvement Society 9, 26, 12	11	Injudicious Cropping-Farmers' Debating So-	Kid Gloves, To Clean. 30 Kldney Worms in Swing. 71, 31
Gardening in Canada Garget, Treatment of	G Hedge Piant, Salix Alba ac a	Injuries to a Horse and Damages	Killing Fowls for Sale
A case of 10 lathering Apples 30	Hodge Plants, The Berberry	Ink Stains	Kitchen Conveniences
— and Keeping Fruit 20 Geeso and Ducks, Largo	3 "Inglish Hawthorn	Injuries Various 217 Insect Enemies 103	Knobs on Horns
Sex in	Rows	World, The 119	L
Georgian Bay, Fruit on		A New Wheat	
German Hot-beds94, 12	1 Live	Insects Desizoyed by Cool Oil	Lance and Wait
Ginger Bread, Soft	o Heifer's Ear. Excrescence on a 266	- cer issantification	Ladies' Column and Boy's Corner
Give the Boys Tools your Swine Charcoal 13	Heifers, Caro of	So Preservo Fruits from 385	Lamb Pudding
Clanders Double of a Man form 96		The State of Cattle 60	How to have plenty of 5.
Glasses for Bulbs and Bouquets	A Hens, To Lay all Winter.	Profiring of Horses. 155 craational Exhibition, Proposed. 316 myllation to a Canadian Prize taker 368	Buttermilk for 13
Goat keeping	Food and Treatment for	ravitation to a Canadian Prize taker	Lambing: Nature the best Nurse
Goat-keeping 2 Goderich Caulo Fur 3 Good Flaz Crop	Herth, "Sanguinalis"	- Agricultural and Emigration Statistics 366	Inflammation after 5
— Milkers	Canada Short Harding 138	Irrigation on a Largo Scale	Lampas in Horses
	Hereford Broed of Cattle, 64	- Bees, Exhibition of (with cut) 247	Large Oxen
— Wool	1 Herefords (with cut)	I Item of War News, An.	Geeso and Ducks
Farmer, What Constitutes a 3	6 Dessian Ply, Demons for	In Faror of Sheep	— Galloway Calf
Goose-breeding		ILLUSTRATIONS :	- Yearing Durham 15
— An inebriated 37 Gooseberry Mildow 17	1 Farming 191	Durham Bull 4	— Potatoes
— Saw Fig	7 Hint to Farmers 119	Glazed Flower Stand	- Mushroom
— Cut, the	7 Hints for Winter, Three	A LOG HOUSE 20	Lawn Grass Seed. 3. Lawford's Herd, The late Mr. 13. Layering Grape Vines. 20
Caterpillar, To Destroy	8 on Country Houses 123	Small Gothle Cottage	Layering Grape Vines. 20 Leached Ashes 8, 10
Gourd, Ministuro Striped (with cut) 37 Government Lands	s — for Butter-makers 245	Bulb and Bouquet Glasses	Leaping the Horse
Government Lands	0 Hives, Robbing	Sheep-Racks	Leaves, Savo the
Grain, Lodged.	7 Hoeing, 194	Of Maple Sugar-making 49, 50	Lectures on Agriculture and Veterinary Art.
Grain, Lodged. Grapo Culture	Garrots,	The Japan Lily	on Rural Taste. 2 Legislator's Opinion of Farmers, A. 14
Trellis, Cheap 18 The Adirondae (with cut)	7 Killed by too much salt, 117	Best Early Raddish	Legislative encouragement to Farm Improve-
— The Adirondae (with cut)	7 — Hog Classes in the Prize List	Pair of Shropshire Downs 84	Legislative encouragement to Farm Improve- ment. 169, 20 Lelostor Sheep in Canada. 37 Lemon Dumpling 27
— Wine 3: — Vine Culture [with cuts] 36 — Vines Best Soil for 37	1 — in Summer	Cow-Milking Machine	lemon Dumpling
Grapes, Repening in Open Air 10	7 Hoggets, Feeding of	Seed Drill	Lenox Agricultural Exhibition
— For Canada	1 Holyhock Seed	Sheep Grubs	Lettuce, Culture of. 15: Liability of Railway Companies as to Fences 105
at Quebec 30	t I Homo mada Pondretta 83	Beo Hives 104	or placing Discased Horses near a private Stable.
Grapery, On the Cold	5 Honey Bees, Acclatamatization of 3	Ploughs and their Work	Lice on Cattle
— Lands Manured by Sheep	7 — To Preserve	Asters 125 Model Poultry House 126	
Grasses, The	g - from Hives, Removing 295	Suburban Villa or Farm House 132	Life among Southern Insects
Grasses, Culture of the	Action of Light on	Pansies 141 Forest Cultivator 145	Light on Honey, Action of 856
- Enrich the Soil	3 "Honest John," 344 3 Hop Culture. 97 — Crop in England. 307	Dovons	Lightening, Accidents from
			Lime: Its nature, &c.,
Gravel for Fowl	- Vinc, Fibre of the	The Clydesdale Horse	Lime: Its nature, &c.,
Greaso or Scratches in Horses 18	- Hay Pitchforks, (with cuts)121, 162, 276	The Tulip	liming land
Great Turnip Staten 34	Teeth of the as Index to Age	Horso Hay Sween 177	Linen in Ireland 23 Linseed O# and Oil Cake 12
Greece, Bees and Honey of	9 I Coper's, Mctropolitan	Hall's Agricultural Implements 180 Dicentra Speciabilis	Liquid Manuro, Saving
Corn as Manure	0 — Carts	Draining 193	Stock in France
	2 Horschesh in Vienna	South Downs 196 Milk Pail 199	Lock-jaw, Death of a Horse from
Grey Co. Agricultural Show	as Human Food 373	Milk Pail	Lodged Grain
Growing Horses	Foot, Austomy of a	A Sussex Stoer	Long Woolled Sheep. 4 Longevity of the Horse. 4 — of a Cat. 18
Growth of Wood	Horses, Winter Feeding of 22 - Feeding Oats to 5	The Barometer 232 Double Dalsy 236	Loss of Cud.
Gruis, Tappinz. 2 — for Identification, 32 — in Sheeps' heads, (with cut, 103, 118, 151, 151, 151, 181, 197, 210, 231, 23, 23, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	i — Interfering or Cutting	Double Balsy 236 The Tent Caterpiliar 227 Stacking Hay by Horse Power 241	Toss of Cud.
151, 151, 151, 184, 197, 216, 231, 23	for Pasha of Egypt	Italian Beo 247	Love like a Pointon
Guano in Scotland, Decision as to	— for Pasha of Egypt	Turkeys 253 Budding Fruit Trees 252	
Guenon on Milch Cows	Exhibitions	White Willow Funcing	M
Gum Arabic Starch G Gumption 32	Bods in Germany	Harvesting Indian Corn	Mad Dog, Cure for Bite of
Gunny Bags 19	1 House Plants in Winter, (with cut)	Cheap Ice Houses	Making Home Happy
Ħ	Convenience, A	Whitesmith Gooseberry 277	Malaria 13 Mal-Appropriation of Agric. Societies' Funds. 13
Hail Storm in Orangeville 20		Improved Harrow	Management of Forces.
Hair, To Preserve our		Butterfly the Second 292 Heeling in Trees in the Fall 300	- of Boss
Lost 15 Halton Agricultural Hall, Opening of 29 "Show 31	V 1	Chees or Cheat 305 Show Gate 307	— of Boes
Hali's Threshing Machine 10		"Oxford Lad," (Short-horn Bull) 308 South Down Sheep 312	Mangold Wurtzel
Agricultural Implement Exclore (with	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	The Adjornac Grape	Manufacture of Flax
cuts)	Hybrid Clover or Alska 19 Pheasant and Bantam 189	A Cheap Farm House, (3 cuts)	Manure, Protection of
mampadire vowe Succe	I II administration Needles 00 000 000 000	First Prize Galloway Bull	—— Saving
Happy Home, A		Cotswold Ram 360 Scarlet Trumpet Flower 365	— on Clay Farms
Hardy Ornamental Shrabs 9		Scarlet Trumpet Flower	— on Clay Farms
Harness, Care of	<u> </u>	Miniature Striped Cound	Husbanding U
Harrow, A Good (with cut)	Houses (with outs)	Skating 375 Best Form of Skate 376	Pits under Stables
Harrowing by Stoam	1 illegible Communications	-	and Midge 222 Manuring Turnips
and Rolling 12	The last register of Rural August, Albany,	J	
Harvest, The Approaching 20 Report for Summer, 1864 27 Home in England 31	implements, Lack of	Jam Tart 143 Japan Lily (with cut,) 60 — Varnish Tree 243 John Johnston of Geneva, New York 18 John Bull and the Corn 366 John Zuke 368	Maple Sugar Making (with cuts)49, 153
tiarresting Hope	Imported Clydesdale Stallion 9	Vamish Tree. 243	— " Clarifying
Hawks and Owls, How to Catch	Importations of Superior Stock 219233, 251,-167	John Ball and the Corn	The Soft 280
man only and by outchesses 80	' importance of Shelter 207	Johnny Cake 368	Mares in Fool,

				lant Corn Straight, How to	27 I	Paggy on Rearing Calcon 192 10
And Numberthe Sheen (with cuts)	167	Nationages Activation Society 153		Annla Teasa 90 TR	O.t I	Monor Boltar Des Con
Muttige, The Edect of.	333 566	Numbering and Marking Sheep (with cuts) 167 Nrt - 168 of Rechester 200 Nut to I Pork 229 Nutrative Values of Food for Stock 58	-	- Wilted Potatoes 1 - Fruit Tree	147 203	— taken, Invitation to a Canadian 30 — for Ploughing at Vaucluse, Franco 31
Marsh, How to Reclaim a	121 351	Nutritive Values of Food for Stock	ĪĦ	— Potatoes	33 56	Prizes for Native Cattle
Maxims for Farmers	289	0	PI	laster as a Fertilizer	169 131	— A Word about
How to Eurob.	227 243	0at to Her es. 6 — Wild 130 — Thick Seeding of 147 — Charged into barter 212	117	leuro-paeumoma in Britain	100 103	Product of ten Cows
Measure an Acre. To Measuring Operation and Results	191 35	— Thick Seeding of	PI	lough for Snow	43 344	Production of the Seves at Will
Wheat in the B.	173	October Faria Work. 234	111	out tong Match in Markham	127	Prof. Buckland's Address
Measurement Wanted, Rules of	120	CEnothera Lamarckiana	-	- "in Gore of Toronto	362	Orchard, a
Merino Sheep Speculation 103,	16.	Officers of Agricultural Societies for 186442, 90 Ohio Flay Crop, An. 99	117	loughs among Kafilrs, Value of	47 115	Profits of Poultry-Keeping
Ram, Valuable.	85	— Chee-o Manufacturers	111	— and the Work They do, (with cuts) I lum Trees, Black Knot among	113 363	of Apple-Growing
Merits of Hereford Cayle	61	Oil Cake for Ewee	in	Mu-s lums, Dwarf.	631	- of Sheep-Husbandry
Method of Hiving Bees	270	"What it is	P	The Planting of the Apple Tree		Probabilion of Export of Live Hegs from U.S. 4
Made an Amerilanal Callera		— "and Flax Seed. 673 Omelet, to make an 110 Ono Year's Seeding gives 7 years' Weeding . 35	1	Riddle, from the German	0.5	Produce Steep
Midland Co's Cattle Show	37 210	Ono Year's Seeding gives 7 years' Wooding . 35 Oneida[N. Y.] Cheese Factories	-	Answer to do. 1 April 1 Farmer's Song. 1	110 176	Proper Way to Bit a Colt
Bostowal by Fite		Omon Maggot		Remonstrance with the Snails	223	Protecting Manure
— and Manure. — Proof Wheat	344 171	Only a Lattle Frehe	1	The Repering Corn.	กมกไ	Protection of Animals from Cold
—— en the Grape	2SO !	Opening of Halton Agracultural Hall	1	Thoughts when Smoking	271	— Against Wind. 18 Provincial Exhibition of U.C. 138, 248, 22 — Mowing Machino Match 20
Millet Mill for Granding Flax Sood New Scotching Mintary Gardens	361 261	Orchard, A Profitable 77		Flowers for Children	3:20	— Mowing Machino Match 20 — Trial of Bearers 201, 21 — Ploughing Match, Grand 22
Military Gardens	315	Depredators 159 Orchards, Raising Volume 103		Our Nativo Land	351	- " The winner at the 25
Milk, Turnipy Tasto in. Vessels, Cleaning. Condensed. Pair, Rest Shallow. Zinc.	258	Orgamental Shrubs, Half hardy 107	P.	Smoking Spiritualized	387 38	Pruning Apple Trees
Pane, Best Shallow	39 371	Our Pedigree	-	cf a Good Milch Cow	38	Purchase of Seeds
— Pad. A Convenient with cuth	199	Villa lilustraton	=	— of a Good Ram — of a Good Reast — of a Good Horse	83 192	Purchasing Boog, Rules for 25
Cows, Guenon on in Fall and Winter	200 293	Over-feeding with Clover	I Pa	— of a Good Horse — of a Good Shorthorn Cow	1221	Publing Cottage
— Feeding Cows for	371	Only and Hawks, to Catch	I P	of south grants	211	Rich Plum. 3
Milking	136 87	Or in California a large	P	olish Shirt Rosoms, How to	63 56	— A Plain. Patnys, Frozen. Putty, To Soilen old
— and Talking	358 150	— eyed Daisy 163 Oxen, Larco 5	P	ontiae, Improved Stock for	361 312	Putty, To Sorten old
Heners before Calving Mimulus, Green-house Culture of the	281	— rs. Hor-es	1 Pc	oor Stock Farming and now Improve it. 3 — Farming, The Road to.	343	Q
Mischievous Insects Mistakes in Cheese-Making	74	"Oxford Lad"—Durham Bull 308	I.	opular Breeds of Hogs, (with cuts.)	68	Quantity of Pork a Bushel of Corn will Grow. 10 Quantities of Seeds for Farm and Garden 13
Mitchell Spring Show	122	P	E	Making and Hog raising38, 214, 2 Making Controversy214, 2	244	Quebec Agricultural Society "Queen of Athelsiane" Cow [cut]
Made of Cultivating Rooms	83	Packing Butter		— Packing in Canada. — Salting and Packing.	7.	t Oneries about Grane Culture
Model Farius	25	"Paidy from Cork"	-	— and Peas	345	Queries on Grass Seeds, Seed Wheat & Barley 13
— Hen Houses Modern Education	138 142	To Sollen Old	_	- Chern's twice of Feedlar 3	220	Question for Bee keepers
Monster Hoz. A	100	Pancake, Improved	ji R	ortulaca, Double, (with cut) ostago Free, The C. F otash, How to make	9	R
Monument to a Par	231	Fans for Un'alli		Mash. How to make 2	222	ı K
Monument to a Prg	243	Panetes (With cuts)	111	statoo Pie Crist	48	Rabbits Doinestic
Moreton Lodge Farm, Guelph	248 214 263	Pansies (with cuts)	l'a	otatoe Pie Crust	46 179 67	Rabbits, Domestic
Moreton Lodge Farm, Guelph Mortably among Pigs in England Moss Basket, To make a Moth in Grain, Tue.	248 214 265 263	Paper H ingings, To Clean 190	P.	otatoo Pie Crist. — and its Disease	4958	Rabbits, Domestic. 22 — Canadian 22 Racks for Sheep [with cuts] 22 Radish The best early twith cut! 25
Moreion Lodge Farm, Guelph Mortality among Pigs in England Moss Basket, To make a Moth in Grain, The Mottle, Remedy against How to Outwit Moveable Comb Hives 173,	248 214 265 263 110 133 216	Panetes (with cuts) 141 Paper H inguings, To Clean 190 Paring Herre's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 554 Parslup 147 Partitioning Farins 115	IN I	tatoe Pie Crist. — and its Disease	******	Rabbits, Doinestic
Moreion Lodge Farm, Guelph Mortality among Pigs in England Moss Basket, To make a Moth in Grain, The Mottle, Remedy against How to Outwit Moveable Comb Hives 173,	248 214 265 263 110 133 216	Panetes (with cuts) 141 Paper H inguings, To Clean 190 Paring Herre's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 554 Parslup 147 Partitioning Farins 115	IN I	tatoe Pie Crist. — and its Disease	******	Rabbits, Doinestic
Moreion Lodge Farm, Guelph Mortality among Pigs in England Moss Basket, To make a Moth in Grain, The Mottle, Remedy against How to Outwit Moveable Comb Hives 173,	248 214 265 263 110 133 216	Panetes (with cuts) 141 Paper H inguings, To Clean 190 Paring Herre's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 554 Parslup 147 Partitioning Farins 115	IN I	tatoe Pie Crist. — and its Disease	******	Rabbits, Doinestic
Moreion Lodge Farm, Guelph Morality among Pags in England Most Basket, To make a Moth in Grain, The Moths, Remedy against How to Outwit Moveable Comb Hires Moving and Reaping Machines, Trail of 184, Machines, Machines, Machine Match, Provincial Matches Lands, Feeding Sheep on Muck, Degging and	248 214 223 210 133 216 137 124 223 231	Panics (with cuts) 141 Paper Hingarys, To Clean 190 Paning Herrer's Hoofs 91 Parsley During Winter, Keeping 254 Parsnips 157 Partitioning Farius 115 Partitioning Farius 115 Patter Wanted 120 Peach Crops, Prospects of the 24 Blow Potatoles 55 " and Potato Rot 146 Trees at Norwich 253 353		battoe Pre Crust. 1, 115, 1 — and its Buscase 1, 115, 1 — Growing 1 — The Most Promable 1 — New Species of 1 — Bot 1 — Made Bacen 2 — Tops, Uso of 3 — Jubilee 3 otatees, To Boil 2 — Cultivating 18, 67, 115, 3 Planting 1	នេតិសន្តន៍ដែនឧទ្ធន	Rabbits Doinestic
Moreion Lodge Farm, Guelph Mortaldy among Pres in England Moss Basket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit — Movable Comb Hines — Machines — Machines — Machines — Machines — Matchines — Lands, Feeding Sheep on Muck, Dogang and Composting Muffler To make	248 214 223 210 133 216 137 124 223 231	Panics (with cuts) 141 Paper Hingarys, To Clean 190 Paning Herrer's Hoofs 91 Parsley During Winter, Keeping 254 Parsnips 157 Partitioning Farius 115 Partitioning Farius 115 Patter Wanted 120 Peach Crops, Prospects of the 24 Blow Potatoles 55 " and Potato Rot 146 Trees at Norwich 253 353		battoe Pre Crust. 1, 115, 1 — and its Buscase 1, 115, 1 — Growing 1 — The Most Promable 1 — New Species of 1 — Bot 1 — Made Bacen 2 — Tops, Uso of 3 — Jubilee 3 otatees, To Boil 2 — Cultivating 18, 67, 115, 3 Planting 1	នេកិត្តន័ងនៃនានាន	Rabbits Doinestic
Moreion Lodge Farm, Guelph Morality among Pags in England Moss Blasket, To make a Moth in Grain, The Mottles, Remedy against How to Outwit Moveable Comb Hives Moving and Reaping Machines, Trail of 184, Machines, Machines, Matchines Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Mulch, Winter Mulc, A Essa on the Growing in the West 105,	248 214 263 263 110 133 216 137 1204 223 233 233 233 233 233 233 233 233 23	Panics (with cuts) 141 Paper Hingarys, To Clean 190 Paning Herrer's Hoofs 91 Parsley During Winter, Keeping 254 Parsnips 157 Partitioning Farius 115 Partitioning Farius 115 Patter Wanted 120 Peach Crops, Prospects of the 24 Blow Potatoles 55 " and Potato Rot 146 Trees at Norwich 253 353		battoe Pre Crust. 1, 115, 1 — and its Buscase 1, 115, 1 — Growing 1 — The Most Promable 1 — New Species of 1 — Bot 1 — Made Bacen 2 — Tops, Uso of 3 — Jubilee 3 otatees, To Boil 2 — Cultivating 18, 67, 115, 3 Planting 1	នេកិត្តន័ងនៃនានាន	Rabbits Doinestic
Moreion Lodge Farm, Guelph Morality among Pags in England Moss Blasket, To make a Moth in Grain, The Mottles, Remedy against How to Outwit Moveable Comb Hives Moving and Reaping Machines, Trail of 184, Machines, Machines, Matchines Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Mulch, Winter Mulc, A Essa on the Growing in the West 105,	248 214 263 263 110 133 216 157 191 220 231 323 63 195 248	Panics (with cuts) 141 Paper H mignists To Clean 190 Paning Herse's Hoofs 91 Parsley During Winter, Keeping 594 Parstips 147 Partitioning Farms 115 Patent Wanted 139 Peach Crops, Prospects of the 21 Blow Potatoes 57 and Potato Rot 140 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pears on Sandy Soils 60 Repending 76 Best Kinds of 167 \$25 a Bu-bel 319 Peas for Pres 345 Peas for P	N I I I I I I I I I I I I I I I I I I I	battoe Pie Crist. — and its Disease	455596459554688564455158	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit — How to Outwit — Machines — Machines — Machines — Machine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Dogaing and Composting Mufflins, To make Mulch, Winter Mulch, A Essa on the — Growing in the West Mulca are they Provinabe — Va. Donkeys Morratin — 134, — Vs. Donkeys Morratin — 139, 201, 203, Morratin — Mack of Marine Farmat Paland Fast of Standard Margaret Buck and Paland Fast of Standard Margar	244 222 233 110 2157 1124 243 243 244 245 245 245 245 245 245 245 245 245	Parises (with cuts) 141 Paper H mignigs, To Clean 190 Paring Herse's Hoofs 91 Parsley During Winter, Keeping 554 Parstitioning Farins 115 Partitioning Farins 125 Partitioning Farins 126 Partitioning Farins 126 Partitioning Farins 127 Partitioning Farins 128 Bart Potatoes 57 and Potatoe Rot 140 Trees at Norwich 203 Pear son Sandy Soils 60 Pears on Sandy Soils 60 Repending 75 Best Kinds of 107 Seba Bushel 319 Pear Gornman in N Y State 243 Later South 248 Later	Po Po	battoe Pre Crust. — and its Disease 1, 115, 1 — Growing — The Most Prointable — 1 — New Species of 1 — Rot 1 — Made Bacen 2 — Tops, Use of 3 — Jubilee 3 Jubilee 3 Judices, To Boil 15, 67, 115, 3 — Calitvating 18, 67, 115, 3 — Planting 19 or Ono 210, 2 — Frozen Wathout Injury 3 — Keeping Through the Winter 3 utted-Head, To Make 1 utung Souls for 1 pudrete, Home made 53, 3	45.6583438548833844331533	Rabbits Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit — How to Outwit — Machines — Machines — Machines — Machine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Dogaing and Composting Mufflins, To make Mulch, Winter Mulch, A Essa on the — Growing in the West Mulca are they Provinabe — Va. Donkeys Morratin — 134, — Vs. Donkeys Morratin — 139, 201, 203, Morratin — Mack of Marine Farmat Paland Fast of Standard Margaret Buck and Paland Fast of Standard Margar	244 222 233 110 2157 1124 243 243 244 245 245 245 245 245 245 245 245 245	Parises (with cuts) 141 Paper H mignigs, To Clean 190 Paring Herse's Hoofs 91 Parsley During Winter, Keeping 554 Parstitioning Farins 115 Partitioning Farins 125 Partitioning Farins 126 Partitioning Farins 126 Partitioning Farins 127 Partitioning Farins 128 Bart Potatoes 57 and Potatoe Rot 140 Trees at Norwich 203 Pear son Sandy Soils 60 Pears on Sandy Soils 60 Repending 75 Best Kinds of 107 Seba Bushel 319 Pear Gornman in N Y State 243 Later South 248 Later	Po Po	battoe Pre Crust. — and its Disease 1, 115, 1 — Growing — The Most Prointable — 1 — New Species of 1 — Rot 1 — Made Bacen 2 — Tops, Use of 3 — Jubilee 3 Jubilee 3 Judices, To Boil 15, 67, 115, 3 — Calitvating 18, 67, 115, 3 — Planting 19 or Ono 210, 2 — Frozen Wathout Injury 3 — Keeping Through the Winter 3 utted-Head, To Make 1 utung Souls for 1 pudrete, Home made 53, 3	45.6583438548833844331533	Rabbits Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit Movable Comb Hives Movable Comb Hives Machines — Hackine Match, Provincial — Matchine Match, Provincial — Matchine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the — Growing in the West — Growing in the West — 103, — 4re they Probtable — 124, — vs. Donkejs Murcony Ducks and Polind Fowls Mustrooms Mustrooms Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit Movable Comb Hives Movable Comb Hives Machines — Hackine Match, Provincial — Matchine Match, Provincial — Matchine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the — Growing in the West — Growing in the West — 103, — 4re they Probtable — 124, — vs. Donkejs Murcony Ducks and Polind Fowls Mustrooms Mustrooms Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit Movable Comb Hives Movable Comb Hives Machines — Hackine Match, Provincial — Matchine Match, Provincial — Matchine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the — Growing in the West — Growing in the West — 103, — 4re they Probtable — 124, — vs. Donkejs Murcony Ducks and Polind Fowls Mustrooms Mustrooms Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit Movable Comb Hives Movable Comb Hives Machines — Hackine Match, Provincial — Matchine Match, Provincial — Matchine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the — Growing in the West — Growing in the West — 103, — 4re they Probtable — 124, — vs. Donkejs Murcony Ducks and Polind Fowls Mustrooms Mustrooms Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit Movable Comb Hives Movable Comb Hives Machines — Hackine Match, Provincial — Matchine Match, Provincial — Matchine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the — Growing in the West — Growing in the West — 103, — 4re they Probtable — 124, — vs. Donkejs Murcony Ducks and Polind Fowls Mustrooms Mustrooms Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Blasket, To make a Moth in Grain, The Moths, Remedy against — How to Outwit Movable Comb Hives Movable Comb Hives Machines — Hackine Match, Provincial — Matchine Match, Provincial — Matchine Match, Provincial — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the — Growing in the West — Growing in the West — 103, — 4re they Probtable — 124, — vs. Donkejs Murcony Ducks and Polind Fowls Mustrooms Mustrooms Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Hisket, To make a Moth in Grain, The Moths, Remedy against How to Outwit Movable Comb Hives Movable Comb Hives Machines Machines Machines Machines Matchine Match, Provincial Matches Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the Growing in the West Mulch are they Probable 134, vs. Donkeys Murrain 139, 201, 203, Muscovy Ducks and Poland Fowls Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Hisket, To make a Moth in Grain, The Moths, Remedy against How to Outwit Movable Comb Hives Movable Comb Hives Machines Machines Machines Machines Matchine Match, Provincial Matches Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the Growing in the West Mulch are they Probable 134, vs. Donkeys Murrain 139, 201, 203, Muscovy Ducks and Poland Fowls Mustrooms Mustrooms	248 2214 2223 2233 2110 2131 2240 2243 2248 2248 2248 2248 2248 2248 2248	Panis (with cuts) 141 Paper H manns, To Chean 190 Paring Herse's Hoofs 91 Objections to 155 Parsley During Winter, Keeping 564 Partitioning Farins 147 Patient Wanted 130 Peach Crops, Prospects of the 24 Blow Potatoes 57 and Potato Rot 146 Trees at Norwich 298 Pear Tree, Beeth of a 200 Pars on Sandy Sols 60 Parslemag 76 Best Kinds of 107 \$25 a Bu-hel 319 Peas for Pigs 345 Peat Company in N Y State 243 Peat gree, Our 9 in Plants 81 Entires of 121 Pelagroe, Our 9 Entires of 121 Pelagromatus 121 Pelagromatus 121 Pelagromatus 121 Petrons Ellow Works 121 Petrons Ellow Works 126 Petrons	N	battoe Pre Crist. — and its Disease	######################################	Rabbits, Domestic
Moreion Lodge Farm, Guelph Morality among Pass in England Moss Hisket, To make a Moth in Grain, The Moths, Remedy against How to Outwit Movable Comb Hives Movable Comb Hives Machines Machines Machines Machines Matchine Match, Provincial Matches Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulch, Winter Mulch, Winter Mulch, Winter Mulch, Winter Mulch A Essa on the Growing in the West Mulch are they Probable 134, vs. Donkeys Murrain 139, 201, 203, Muscovy Ducks and Poland Fowls Mustrooms Mustrooms	244 244 2222 233 244 2222 233 244 243 243	Panes (with cuts) 141 Paper H manns, To Clean 190 Panng Here's Hoofs 91 Parly During Winter, Keeping 254 Parshap During Winter, Keeping 254 Partitioning Farms 147 Part Congress 157 Partitioning Farms 158 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 150 Partitioning Farms 15	PROPERTY OF THE PROPERTY OF TH	Date Pe Crist.	495984999499499494992929494	Rabbits, Domestic
Moreion Lodge Farm, Guelph Moralaly among Pags in England Moss Basket, To make a Moth in Grain, The Mottal Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Matchines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffins, To make Mulle, Winter Mulle, A Essa on the — Growing in the West Mules and Jacks — 103, — vs. Donkeys — 139, 201, 203, Murrain — 139, 201, 203, Murrain — Musk Melon, Christiana Mustard or Charlock N Nails, To Braw Rusty — To Drive in Hardwood — To Cinich Cut Nankin Sheep — Naphes Biscuit, To Make Native Cattle, Our — Flax — Native Cattle, Our — Flax — Native Cott of — Farm Products — Desider Amony Cattle — Hone Wanted — Hone Manted — Hone Wanted — Hone Manted —	244 244 2222 233 244 2222 233 244 243 243	Panes (with cuts) 141 Paper H manns, To Clean 190 Panng Here's Hoofs 91 Parly During Winter, Keeping 254 Parshap During Winter, Keeping 254 Partitioning Farms 147 Part Congress 157 Partitioning Farms 158 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 150 Partitioning Farms 15	PROPERTY OF THE PROPERTY OF TH	Date Pe Crist.	495984999499499494992929494	Rabbits, Domestic
Moreion Lodge Farm, Guelph Moraldy among Pags in England Moss Basket, To make a Moth in Grain, The Mottas Remedy against — How to Outwit Movadle Comb Hines — How to Outwit — Machines — Machines — Machines — Machines — Machines — Machines — Lands, Feeding Sheep on Muck, Dogang and Composting Mufflis, To make Mulch, Winter Mulc, A Essa on the — Growing in the West — Machines — Growing in the West — Are they Prohable — Are they Prohable — Are they Prohable — Mustand Mustand or Charlock Mustand or Charlock N Nails, To Braw Rusty — To Drive in Hardwood — To Cinich Cut Naith Sheep — Napher Bascuit, To Make Native Cattle, Our — Flax — Natural History Specianes New Plants, Cost of — Fran Products — Desider Amony Cattle — Hone Wanted — Flax Ball	244 244 2222 233 244 2222 233 244 243 243	Panes (with cuts) 141 Paper H manns, To Clean 190 Panng Here's Hoofs 91 Parly During Winter, Keeping 254 Parshap During Winter, Keeping 254 Partitioning Farms 147 Part Congress 157 Partitioning Farms 158 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 150 Partitioning Farms 15	PROPERTY OF THE PROPERTY OF TH	Date Pe Crist.	4666948654684664684664646466666666666666	Rabbits, Domestic
Moreion Lodge Farm, Guelph Moreidaly among Pags in England Mosa Blasket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Machines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To Make Murcovy Bucks and Polind Fowls Musk Melon, Christiana Musk Melon To Chinch Cut Nankin Sheep Naples Basenit, To Make Native Cattle, Our — Flax Natural History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neute-Foot Oil — Flax History Specianes Mott Foot of Flam Products — History History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neuter Sping Wheat — Wheat Insett New England Frimer Suspended New Sengland Frimer Suspended	244 244 222 223 223 233 243 243 243 243	Paners (with cuts)	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46.668.6178.6248.835.84435.1158.12814.44.148681486149.645888° 8 4 4 1 1 8	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17
Moreion Lodge Farm, Guelph Moreidaly among Pags in England Mosa Blasket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Machines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To Make Murcovy Bucks and Polind Fowls Musk Melon, Christiana Musk Melon To Chinch Cut Nankin Sheep Naples Basenit, To Make Native Cattle, Our — Flax Natural History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neute-Foot Oil — Flax History Specianes Mott Foot of Flam Products — History History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neuter Sping Wheat — Wheat Insett New England Frimer Suspended New Sengland Frimer Suspended	244 244 222 223 223 233 243 243 243 243	Paners (with cuts)	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46368617868488858448811581281124	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17
Moreion Lodge Farm, Guelph Moreidaly among Pags in England Mosa Blasket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Machines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To Make Murcovy Bucks and Polind Fowls Musk Melon, Christiana Musk Melon To Chinch Cut Nankin Sheep Naples Basenit, To Make Native Cattle, Our — Flax Natural History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neute-Foot Oil — Flax History Specianes Mott Foot of Flam Products — History History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neuter Sping Wheat — Wheat Insett New England Frimer Suspended New Sengland Frimer Suspended	244 244 222 223 223 233 243 243 243 243	Paners (with cuts)	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46368617868488858448811581281124	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17
Moreion Lodge Farm, Guelph Moreidaly among Pags in England Mosa Blasket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Machines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To Make Murcovy Bucks and Polind Fowls Musk Melon, Christiana Musk Melon To Chinch Cut Nankin Sheep Naples Basenit, To Make Native Cattle, Our — Flax Natural History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neute-Foot Oil — Flax History Specianes Mott Foot of Flam Products — History History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neuter Sping Wheat — Wheat Insett New England Frimer Suspended New Sengland Frimer Suspended	244 244 222 223 223 233 243 243 243 243	Paners (with cuts)	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46368617868488858448811581281124	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17
Moreion Lodge Farm, Guelph Moreidaly among Pags in England Mosa Blasket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Machines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To Make Murcovy Bucks and Polind Fowls Musk Melon, Christiana Musk Melon To Chinch Cut Nankin Sheep Naples Basenit, To Make Native Cattle, Our — Flax Natural History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neute-Foot Oil — Flax History Specianes Mott Foot of Flam Products — History History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neuter Sping Wheat — Wheat Insett New England Frimer Suspended New Sengland Frimer Suspended	244 244 222 223 223 233 243 243 243 243	Paners (with cuts)	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46368617868488858448811581281124	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17
Moreion Lodge Farm, Guelph Moreidaly among Pags in England Mosa Blasket, To make a Moth in Grain, The Motts, Remedy against — How to Outwit Movable Comb Hines — Had Comb Hines — Machines — Machines — Machines — Machines — Machines — Matches — Lands, Feeding Sheep on Muck, Digging and Composting Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To make Muffing, To Make Murcovy Bucks and Polind Fowls Musk Melon, Christiana Musk Melon To Chinch Cut Nankin Sheep Naples Basenit, To Make Native Cattle, Our — Flax Natural History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neute-Foot Oil — Flax History Specianes Mott Foot of Flam Products — History History Specianes Nott-Foot Oil — Flax Natural History Specianes Nott-Foot Oil — Flax Neuter Sping Wheat — Wheat Insett New England Frimer Suspended New Sengland Frimer Suspended	244 244 222 223 223 233 243 243 243 243	Paners (with cuts)	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46368617868488858448811581281124	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17
Moreion Lodge Farm, Guelph Mortaldy among Pags in England Most Basket, To make a Moth in Grain, The Motals Remedy against — How to Outwit Movable Comb Hines — Hackines — Machines — Mulle, Pegang and Composting Mulleh, Winter Mulle, A Essa on the — Growing in the West — Most — Mulles and Jacks — Other — How Pointable — Vx Donkeys — Museand Jacks — Nails, To Braw Rusty — To Brave Rusty — To Drive in Hardwood — To Cinich Cot Nails Schep — Flax Natural History Specianes Nott-Foot Oil — Flax — Natural History Specianes Nott-Foot Oil — Flax — Nails, Cost of — Flar — Flax — Flax — Home Wanted — Home Wanted — Home Wanted — Flax Ball — Kind of Spring Wheat — New England Frimer' Suspended — New England Frimer' Suspended — New England Frimer' Suspended	244 244 222 223 223 233 243 243 243 243	Panes (with cuts) 141 Paper H manns, To Clean 190 Panng Here's Hoofs 91 Parly During Winter, Keeping 254 Parshap During Winter, Keeping 254 Partitioning Farms 147 Part Congress 157 Partitioning Farms 158 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 159 Partitioning Farms 150 Partitioning Farms 15	Por Property	battoe Pie Crist. — and its Disease — the Most Prointable — New Species of — The Most Prointable — New Species of — Tops, Uso of — Tops, Uso of — Jubilee J	46368617868488858448811581281124	Rabbis, Domestic. 22 — Canadian. Racks for Sheep [with cut-] 3 Radisk, The best early [with cut-] 4 Radish, The best early [with cut-] 6 Raising Reans 2 — Turnip Seed. 11 — The Calf. 22 Ram, Points of a good 5 — First-prize Coiswold [with cut-] 3 Ranney & Harris's Dary Farin 2 Rape or Colza. 23 Rapperics. 252 Rask, To get rid of 19 Reaper and Hower Combined, Ball's 16 Reaper and Hower Combined, Ball's 16 Reaper, Provincial Trial of 201, 21 Reaping of Cereak, Early. 201 — and Mowing Machines, Trial of 154, 18 — Machines in Scotland 35 Reception, Our 2 Reciprosity Treaty, American 4 Reclaiming a Marsh. 12 Recreation, Stating [with cut-] 3 Refractory Butter 32 Refractory Butter 32 Refractory Butter 44 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — Honcy from Hives 25 Removing Old Putty and Paint 4 — On Grain Massers as to Crops 27 — of Judges on Mowers and Reapers 28 Resin and Turpentine imported into Great Brain. 3 Retaining President of Provincial Agricultura Association's Address 255, 239 Review of English Poultry for 1863 — Soul Wild 4 — Soulp. 17

PAGE	FAGR.	PAUK	FACE
Root Catter 31	Sheep, Beans for 65		Toll, Manure exempt from
House169, 19	Grain re. Tarning for	Sialions' Boxes	Tomatoes
Rools on Sheep, Effects of	Gross and Net Weight of	Standard Work on Market Gardening 313	Ton draging Marilmes
Culture, A short Code of	- Rusbandry, Probt of	Starch for Shirt Bosoms	" Wheat land 2'9
Doeln and Turnenting	Troughs for	Statistics of Cheeso Factories 70	Toronto Agricultural coriety
Rot-proof Pota ocs	Heavy floores	Steak De. Family 271	Gardener, Improvement Society
Holation of Crops 81, 8	Buckwheat Straw 72	Steam Harrowing	29, 229, 316
Roup and Lice on Fouls 161, 27	- How to have Twins 22	- Saw Mill at Brantford	Townley Henl, rate of the
Royal Dublin Society	Evil (Tects of Buckwhest 72)	Store, Two Years Old	Town and Agricultural Scienty
Bulo to a scritain loss of Que no	Buckwheat and Meat 72 Hogs and Root Croops 58	Stereoty flux Tun Caveda Farmer	Training Her-es to Step High
Bules of Upper Canada Agricultural Asse	- Uprdica for	Flow, To Dike a Good	Transferring Beck 263
catter	11 Co t of Keeping Different Brood	Stimulant for Corn	Transport of Hax 121
- for Measurement 120, 17	1 To Prevent Foot rot in.	Sun & Treatment of 133	Transportation of Fish Ova
for Making Butter	and West	Stirring that oil	Trap for Caterpillare
- Fr Making Butter	Regularity to Freeling 55	Stock pair Quebre	Trapport Grubs
- fir Growing Hyarinth 39	Bells on	Stock Farming in Canada 143	Treatment of Wounds in Horses,
Hural Architecture funth cut-f 162, 54	Saraten Flock of, Sale 103	It'ma 132	Trockstels
Rust on Wheat	16 lof 176Bi, Br-1	- Firshing, Calendation in	— in California, Big
Action of	Profile. 135	Stoccing Frames 58	- Upworthy of Cultivation 280
Bre	Passoned by Laurel haves	Storing Wood 243	Trenching land 307
pyo.,	- Shearing Exhibition	Strange Bird, A	Troughs for Feeding Grain to Sheep 58
S	" In Obio 184	strangles, or Horse Distemper 235	Trout S vn. Speckled
, -	Extraordinary 197	straw, Freis About 163	Trustee cthe Crop Reports
Salo of George Miller & Stock	168	Coring 349	Tuberres Calture 304
- of Stock at Mereton Lorge 31	Farming in Canada	Bechree 353	Tabp. The (with cut) 171
- cf Short herus in N. Y State On	and Southdown 216	Strawberry, The	Tumour ou a Cow
Sales of Stock in N. Y. State		Strawberry Vince, Mowing off	Turkey, To Boast a
Salmon Breeding in Ir. land	3 - at Pa-ture, Shelter for	—— Crop of 15th	Turkey (with cuts)
" In Australia	Feernial to cond Farmond	Strawberries 124	Turnin The
- m Lake Onland 36		Dressing for	Crops, Premium
Angling in the Shutteri	I Item in favour of	Stretches in Sheep 197	Seed, Vitality of 77
Salt for Shoep	6 Less Trouble in Winter	Stricture in Cow's Tests	Seed, Raising 115
for Swine		Stubble Ground	— Hy
on Land	8 — Shed, Portable	Stumping Machines,82, 184, 200, 207, 207,	Hatch, Great 347
Hockilled lov	I " Annual Sale and Letters of 319	Striped Courd, Miniature (with cut)	Bug or Hea 173
— Hog killed by	- Winter Traiment of	233, 287, 346 Striped Goard, Miniature (with cut) 374 Sub-oil Pleughs	Turning with Straw
Salted Means for Cooking	0] Rim 1	" Read's Patent	Failure of 98
Salting and Packing Pork	i] Unknown Disease among	Airing and Draining the	Culture of
Sand on Clay Soils 1	6 Sheller for Cattle	Substitutes for Cotton 367	Largo Crop of
- for Glass-making 4	0 Importance of 267	Suburban Villa or Farm House (with cut	in the Backwoods 360
Sangunalis, The Herb	9 Sheds over Mapuro	and plans)	Turnipy taste in Mik, &c
Sauce for Hoast Goose	2 Shepherd's 190g, Tho	Successful Poultry Keeping	Turpentine and Resin imported into Great
Itali, to make	3 Shingles, Split and Sawed	Succession of Flowers	Britain
Sating of Manure	1 Specing Horses	Suffolk Punch, The (with cut)	Twin Lambs, How to have
Forest Trees	o thort Notes on Various Topics	Sugar from Sorghum	Two White Crops in Succession
caw dust for Orchards	7) Short-horn Cattle (with cut)	Sugar from Sorghum	Tympanitis in Cattle
for Strawberry Plants 17	2 Cow, Points of a	Sulption and Sait for Nexe 184	Typhold Fever in the Horse 59
Scab, Cure for	5 Phoulder Strain in Horses 169	Sunlight upon Stock	
Sandinarian Fences		Summer Fires, Economy in	ប
Scarcity of Wood	5) Shraking in Woollens, To Prevent	— Drink, Wholesome	Vdder, Caked 246
caenco in the Dairy,	8 Shrinkage of Forage in Curing	- Fallowing and Thistic Killing 370	Udders of Sheep, Disease of
Scious, How to Preserve	5 Siik, To Clean Black. 30	Super-Phosphate of Lime for Turnips and	Under draining
Scouring Knives 23	8 Situation for Bees	l'otatoes	Unhealthiness of Artificial Manures 276
cours and Grub in the Head	7 Skating I with cutst 375	Suppressed Communications 248	Union Exhibition, The
Scour in Calves 20	3 Ekeleton Forms	Sussex Cattle (with cut)	Unpopular Officer with Ladies 143
Scratches or Greaso in Horses	5 Skirving & Laing's Turnips	Swamp Land	Unquiet Milch Cowa
— Mill, A New	Slope, Preservo the	Swarm with three Queens. 247	"Agricultural Association, Rules of 28
cason, The 21	8 Sug. The 216	Swarming, Artificial	Urino? What is
Seawood for Manure 20	3 Small Fruits	of Becs 187	Use of Cultivators, &c
Second Swarm Queens 20	3 Smells, Offensive 126	Sweetment Jars, Death in tho 238	Useful Him 143
Secret to Farmers, a 11		Sweetmeats, Domestic	U. S. Communioner of Agriculture, Report of 43
for a Farmer's Wile	Smithfield Club Show 37	Sweeping Carpets	U. S. Crops, Official Reports220, 367
Seed Grain Chango of 52, 242, 260, 29	0 Smokers, Warning to 164	Swelled Legs in Horses	Usefulness of Burds
Clean f		Swimming Baths in Toronto	v
How to get Change of 8	2 Smut in Wheat	Crima Icon plan)	• *
Drill (with cut) 0	3 Enako Insido a Pig	Feeding 55 Charcoal for	Vaccination and Innoculation of Sheep 294
Cleaner 15	LI Shall's Rull font of Ma 1	Charcoal for	Value of Fruit
Wheat, Preparation of	Farm, Visit to Mr		of Ploaghs among Kaffirs
Scods. Purchase of	Stock Sales, Mr	Ŧ	of Carrots
Wanted	Snow Plough. 43 Gate [with cut]. 207	Time of Contants to each Vo. eff. T	- of Manures, Relative
- Wanted	as a Covering	Tainfal Ments To Restore	of Heat
Selecting 11	Soon Suda Valuable	Taming Fish	Values of Grain for Feeding
— Vitality of	Sod, Rolling 243	Tanbark	Variegated Hemlock
Ut Forest Trees	Soil for Flax	Topeworm in Lambs 262	Vauchan Township Fair 319
Seeding of Oaks Thick	Con Conce Plan	New Retnedy for	Vegetable Garden, The
Thin	T — for Grape Vines, The Best. 374 Soils, Deterioration of 18 — for Potting. 157	Trete of Turning in Buston &c.	Ventilating Stables
Selecting Ewes for the Ram 26	for Potting.	Taxation, Proposed.	Verbena The
— Of Forest Trees	Sore Teats		With cut 163
Sewing Machine (with cut) 17	1 Mouth in Sheep	Teate, Soro43. 261	- with cut. 163 Verse, [see poetry]
Sex in Geese	Eyes 127	Teeth Clean, Keep your	Vetches and Mone 50
— Of Eggs	Sorghum ra Wheat	of the Horse (with 7 cuts,] 212	Veiches 98
Seres at Will	at the western States	Touthing in Horses	verennary Dept.—Opening Remarks 27
Sexes at Will.	Som of Catts	Togent Forming	Vetches 93 Veterinary Bept—Opening Remarks 27 — Books 360 — and Agricultural Instruction 374
Sualion bilk Para, Best	- Sample of Canadian. 314 Soup for Winter. 13 - The Rest. 271 Soups, To Make	Tent Caternikar (with ents)	Vicious Horses, Correcting
Sheen, Blocking of	The Best	Test your Cows	Vinegar, to make.
Buckwheat and	Soups, To Make	Testing Reapers and Mowers. 202	Vintage of 1864 in France. 364
Business, Entering on	South American Guano 27	Textito Fabric, A New 303	Vitality of Seeds
How to Catch 2	Downs [with cut]	Thatching and how to do it 345	- of Turnip Seed 77
Barley for 2	Simcog Agricultural Society's Show 315	Thin Scoting	of Timothy Seed
Cross, a Good	Southern Insects	This is The Canada Consider the Consider The Canada Chief	Volco in Fish
Clipping for Exhibition.	I Sow Unable to Open Her Month	Thistles The Patch of 191	Polymes of C. F. Bound an 263 278
Washing for " 11	South American Guano	Thomas's Bee Hive	Victous Horses, Correcting 348 Vinegar, to make 222 Vintage of 1864 in France 364 Vitality of Seeds 130, 179 — of Turnip Seed 77 — of Timothy Seed 83 Voles in Fish 351 Volatile Soap for removing Paint, &c 178 Volumes of C. F., Bound 59, 361, 373 Voting, Right of 103
Doctorsian of Land	Sowing Plaster, &c	Thorough breds, a Debate on 214	
Destruction of, by Dogs	Seec. 08	Three Queens in a Swarm 247	w
Should be under Sheds	Pan Wheet	Torcening and Sawing Machines	Waggen look To weller
Require Water in Winter	Grain	Thurs's theory as to Desdusion of the Same	Waggon Jack, To make a
Best Climato for	Grasses Without a Corn Cron 220	55 51 40	Wall Paper, To Clean 190
Fattening in Winter	Spasmodic Colic in Horses.	Ticks on Sheen	Wants of the Bee
Dividing for Winter	Spent Tan-bark	Tile Machines, Drain	Wants of the Bee
RUCKS I VIII CHIS	Spainz Stekatum	Tile for Drains, Cost of 200	Warmth and Convenience in Barns 232
Fat	Spider and Bee Moth	Tilo Works 175	Warming to Bee-keepers. 313 Warning to Bee-keepers. 313 Warv on Horses. 59 — on Cows Udders, &c. 53 Washing Sheep for Exhibition. 58 " 118, 121, 131, 163 Woollen Articles 152, 150, 200 Warded Death 65
Ago of.	I Splery in Horas Palamed	Timocrin Summer, Cul	warron norses
— Ago of. 3 Grass-lands Manured by 3	I Split Peas and Raview Sonn	Timethy Seed Vitality of	Washing Shoon for Evaluation
Effect of roots of	Spring Wheat Cron. Failure of	When to som	10 201 171 101 271 101 EXIDED SPINGER
Shedding Wool3	782	Tires on Wheels, To keen	Woollen Articles 150 160 000
Care and Profile of	" A New Kind of 233	Toads 173	Wasted Wealth65
Long Woolled 40, 57, 18	Tares 115	Tobacco-smoke for Sheep Grabs 118	Water for Swine
17cks 01	= 500W at Mitchell	Colture	for Sheep
Breeding and Rearing 6.	Grain	AS 8 500SUCULUI FOR TY DEAL	
Lambing			Cress
Sore Mouth and Eyes	Stacking Hav by Horsa Power (south cut) 241	- Home-made	Watering Horses
Inflammation after Lambing	Staggers in Horses	— Man Poisoned by	Waterproof Blacking
To raise Large			

	and the same of th			
PAGE	PAG	OXL	PAGK	PAOR
Waterproof Glue 126	Into Chess, Change of	370	Winter-feeding of Horses	Worker Bees Short-lived 206
Weak Swarms, Strengthening 155	and Barley grown from Oals 3	555 I	Builds making	17 OTO 10 OWING
Weelth of the Wool Crop	I Moal Cakes	m		IN SUCCES. MCSG3
Weather and Crops137, 153, 176, 186, 202,	- Yield of Upper Canada 2	233	Roads in Lower Canada 79	
213, 239, 250, 269, 287, 362	I Samples 748 2	284 I	man Work on the Farm	THE REPORT OF THE PROPERTY OF
- Indicator169, 184, 345	Which aball no rear-Cattle, Horses or Sheep 2	715	Malch	Woodes in Horses, Treatment of
Weeds to Full, No	Whitchurch Spring Fair 1	104	Treatment of Eheep 360	Tellor In Salling 10
War Against 367	White Crops, Two in succession	19	France in	" Letter to
Weevil or Borer]	104	- Preservation of Cabbage	47
	Whitefish of Canada. 67,	58	Wintering Bees	x
	Whitewashing 1	ן פטו	Wire Worm, Tho	Tavilla - Colmon 101
- versus Compactness 58	Winte Willow for Hedging [with cuts] 187,		Write Distinctly 264	184
— of Drain Tiles 233	220 255, 257, 261, 267, 298, 318, 3	322	Writing in a Hurry 83	Yearling Durhams, large
	White Willow Cuttings 3		Wolf Teeth in Horses	Moltes Amile Trans
West Northumberland Agricultur Isliow 3 9, 349				Yield of Apple Trees
				York Township Agricultural Show
	Wild Oats . 1	130	Ashee Injurious 41, 66	Township Man March 215
	- To Make Demestic Animals . 1	101	Wooden Drains	Township Ploughing Match
	— Lupina seed 2	သော	Wool Samples	Young Cattle, Breaking in 121
ails some of our wheat I and. 163	Lands for Sale	.55	Good 184	10db2 1.colio mong with
Wheat, Good. J. J. Mechi	Willow, Varieties of the	317	Clip, the Coming 197	•
Crop, Failure of Spring	Willed Polatoes, Panting	140	- Trade, Increase of	4
Culture, Experiments in 66	wind Gail, How to Curo	123	Wools, A Cabinot of	71m - 17111- Pane
Midgo	window Garoching	78	Woolly Lamb, A	LIBC MIK LEBS



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Forest Management.

SETTLERS in a now country very generally wage a war of extermination against the "trees of the wood." They come to look upon them as natural enemies and cumberers of the ground, whose inevitable doom is to be cut down and cast into the fire. Since their removal is the first step toward making a farm out of the wilderness, they sweep them away as rapidly as possible. The consequence is, that many stretches of country have come to be nearly, if not quite as bare as a Western prairie, on which no plant or shrub knee-high can be seen. A monotonous belt of woodland stretches away in the rear of the cleared portions of the farms through which the highways run, but beside that, scarcely a single tree or grove diversifies the scene. This wholesale destruction of the forests of Canada is an evil that begins, at least in many localities, to demand a check. Firewood grows scarce and dear, the landscape is becoming naked, it is difficult to procure timber suitable for various mechanical uses, the shelter needed by many crops in exposed situations is removed, and unfavorable climatic changes are taking place, which can be clearly traced to the wholesale and indiscriminate destruction of timber. A little exercise of judgment, forethought and taste, would mend matters very much. For example, why cannot some of the young wood be preserved when land is cleared, to form groups that shall at once ornament the landscape, furnish shade for stock when the scorching summer sun pours down its almost tropical rays, and act as a wind-break when cold and biting blasts sweep over the fields? It seems absurd to destroy every green thing and then set about planting anew. There are many choice forest trees that transplant with difficulty, but which, left while small where nature placed them, become objects of surpassing beauty and great utility. What is to hinder the settler from availing himself of that best natural protection in bleak situations, the woody and leafy screen which he finds ready to his hand? How much comfort might be secured to the tenants of the dwelling and the farm-yard, if the house and barn were surrounded by a grove? Why cannot the standing wood which is kept as a reserve for fuel be gradually thinned out, and so managed that it shall be an ornamental appendage to the farm and a favorite run for the stock? Moreover, is it not important that secondgrowths of timber needed by the carriage-builder, cooper, cabinet-maker, and others, should be encouraged, and, in fact, forest culture made a depart ment of farm economy and management? If we mistake not, these hints and queries open fields of reflection which many of our readers would do well to look at, especially at the present season of the year, when it is so common to "cry haves and let slip the dogs of war," in the shape of ruthless axes. wielded by relentless choppers, beneath whose fell strokes every twig and sapling quickly disappears.

There is not only great need of incelligent forest there is a likelier chance of securing the crop,

management on the farms scattered up and down the land, but the preservation of trees upon the sites of towns and villages is a most important matter. Nature has made many of these sites indescribably beautiful. Centuries have been occupied in the growth of graceful and magnificent trees; hill, plain and valley diversify the surface of the land, and sparkling rills flow musically through the sylvan dells. All is lovely till man invades the scene. Full of utilitarian ideas, bent on speculation, and having no eye for natural beauty, the founder or founders of a new town or village allow, unchecked, raw emigrants and ignorant day-laborers to begin and carry on the work of spoliation and disfigurement. Grand old oaks, graceful elms, beautiful pines, hemlocks and balsams, which furnish ornament and shade, such as generations must wait for from human planting, are mercilectly felled; the royal head of every monarch of the forest is humbled to the earth, and no vestige of a tree is left, except the unsightly trunks that, piled one upon another, form the habitations of the Goths and Vandals that have conquered the region. When the destruction is not thus complete at first, and here and there a few trees are left, some idle shanty-man or stupid road-master will destroy what settlement and time have spared. We have in our eye at present a Ganadian town of some size and age which has many noble clms, maples, beeches, balsams and hemlocks in its environs, which are rapidly disappearing in the way just hinted at. Surely proprietors and municipal authorities ought to interfere and put a stop to the wholesale destruction and pillage of beautiful and valuable timber.

Cost of Fences.

Mr. Cornell says :- "To fence a farm into square fields of two and a half acres each, crediting balf the fence to the adjoining field, requires forty rods of fence, or sixteen rods per acre, which at \$15 per thousand for rails, and \$10 per thousand for stakes, will cost at least thirty cents per rod, or \$4 80 per acre, and entail an annual expense in the interest of mency, natural decay of material, and labour for repairs, of nearly or quite \$1 per acre. Fields of five acres each require eleven and a half rods per acre, costing \$3 45 per acre. Ten-acre fields require ein trods of fence per acre, costing \$2 40 per acre. Tw-aiy-sere fields reduce the fence to five and a half rods per acre, at a cost of \$1 65 per acre. Forty acres in a field require but four rods to an acre; and one hundred acres may be enclosed in one field with two and a half rods per acre, costing 75 cents per

CEREALS, should be reaped before they are chinery for the manufacture of linen. At their oldest fully ripe. There is a gain of four per cent. in favour establishment, viz., in Doon, they are laying out some of cutting wheat a fortnight before it is actually ripe. ten thousand dollars in this direction, and we hope by Besides this, the straw is of a better quality, and you want to be able to announce the manufacture of there is a likelier chance of securing the crow.

Cultivation and Manufacture of Flax.

PERINE'S WORKS.

Convinced that the growth and manufacture of flax is destined to take high rank among the industrial in terests of Canada, and being determined to use all the means in our power to direct public attention to a subject of such manifest practical importance, we take pleasure in laying before our readers some of the results of a personal visit of inspection to one of the establishments carried on in the western part of this Province, by the Messrs. Perine. These gentlemen deserve most honorable mention, for the persevering and successful energy with which they have introduced and fostered the culture of this valuable textile fibre. It is now about ten years since Mr. W D. Perine located himself at Doon, Upper Canada, for the purpose of commencing an enterprise, the resultof which fairly entitle him to a place among the benefactors of Canada. The farmers of Waterloo could not not at first be induced to try the experiment of flexgrowing. Nothing daunted, Mr. Perine rented a quantity of land, imported seed, and while the crop was growing, prepared a scutching mill. Gradually the surrounding tarmers relinquished their scepticism, and began to attempt flax culture on a small scale. Beginning with half an acre or an acre, their confidence grew with the growth of the new product, until now many who were originally unwilling ') devote a single rood to flax, regularly cultivate their 15 or 20 acres annually.

As actual trial demonstrated the practicability and profitableness of the undertaking, other points beside Doon were sought as centres of operation, and Mr. W. D. Perine was joined by his two brothers, the trie forming the firm now carrying on business as Perine Brothers. They have at present four scutching mills at work in Upper Canada, located respectively at Doon, Conestogo, Drayton, and Baden. At Baden the premises are rented, but at the other places the vorks are owned by the firm. They consume at these establishments the product of about 1500 acres of land annually, tilling about 200 acres themselves, and depending upon the adjacent farmers for the balance. They have enlarged their business to its present dimensions mainly by a quiet exhibition of the advantages of flax-culture, in the way of personal intercourse with the farmers, whom they visit, and encourage by placing facts and figures before them, loaning them seed, and pledging them a market for the crop. They have no difficulty now in obtaining all the raw material they want. The results on the whole have been such as to encourage the Messrs. Perine, and induce them not only to increase the number of their scutching mills, but to import machinery for the manufacture of linen. At their oldest establishment, viz., in Doon, they are laying out some ten thousand dollars in this direction, and we hope by linen from Canadian-grown flax, as an accomplished that Already they are making rope, cordage, and twine at their Doon works. We shall watch the progress of the projected pioneer linen factory with the product interest, and rejoice in due time to chronicle as completion and success.

A way words now in reference to the raising of flax as a tarm crop, and the stages and processes of its preparation for manufacture, may not be uninterestme to our readers. This most useful plant accomodates used to almost all the climates of the world. and may be grown successfully upon any soil of ordinary productive capacity. After thorough trial of every description of land from light sand to heavy clay, the Messrs. Perine are of opinion that flax does best on a strong loam, somewhat inclined to clay. They recommend about 70 lbs. of seed per acre as the quantity to be used when the plant is raised for both seed and fibre. In this chinate the last week in April or the first week in May, may be set down as the proper time for sowing. Seasons vary, however; and nothing is gained by harrying in the seed before the land is in proper tilth, which is sometimes as late as the second or third week in May. About the middle or end of July, the crop will be ready for pulling, a process usually performed by hand. In Ohio it is a very common practice to cut flax with a mowing machine, but this is objectionable, as it wastes a portion if the fibre, and teaves butt ends which are troublesome to the spinner and manufacturer. A flax-pul-ting machine which will supersede the necessarily slow hand process is greatly needed. The inventor of such a machine would be sure to make a fortune by his patent. In the meantime, hand-pulling must needs be the prevalent mode of gathering the crop.

The average yield of flax is from one-and-a-half to two tons of green straw per acre,—or about one ton when rotted,—and 12 bushels of seed. Green straw a worth about \$6 per ton, at the scutching mill, and rotted straw \$10. Flax seed is worth on the average \$1 25 per bushel. At present it commands a higher 3gure, the market price being \$1 50 per bushel. The above is, according to the experience of the Messrs. Perine, a safe, and if anything, a low estimate. In me instance, five acres of flax grown in the township of Waterloo, U.C., yielded 725 fbs. of dressed fibre per acre, and 15 bushels of seed, value \$49 75 per acre. This was an unusual yield. The crop grew in a rich field, close to the farmer s barn,—the season was every way favorable,—pains were taken to harvest the straw properly, and on the whole, this must be taken as an instance of maximum success. Four to six hundred pounds of dressed flax to the acre is by no means uncommon, and while 12 bushels of seed per acre is perhaps about the average, as high a yield as 24 bushels has been obtained.

In reference to the cost of this crop, and its profitableness, the testimony of the Messrs. Perine is highly satisfactory. They do not consider that more labor is required for a crop of flax than for a crop of winter wheat,—indeed the most of what has been raised under their inspection has not received one-half the attention as to preparation of the land which is usually bestowed upon fall wheat. Doubtless deeper ploughing and more thorough preparation of the soil barvesting a crop of flax and preparing it for the scutching mill does not exceed \$7 per acre, while the preparation of the land costs lutter if any more than that of any spring crop. The average of the producer's profit, exclusive of harvesting and preparing for scutching, is something more than \$30 per acre. All who have grown flax under the auspices of the Messrs. Perine, admit that it is far more remunerative than wheat, while it is perfectly safe to affirm that it is 25 per cent less risky than spring wheat, and 50 per cent less than fall wheat in this country. No instance of a failure in the flax crop has taken place when the seed has been put in at the right time, and the land has been in a proper state of cultivation. What poor crops have been raised, have been more the result of mexperience or neglect on the part of the producer than the fault of the crop itself.

The Messrs. Perine purchase the straw either in its green or its rotted state. They also receive it, and put it through the scutching process for the growers, as flour mills grind small lots of wheat for the family use of the farmer. Those who get flax scutched for their own use, spin and weave it into towelling, linsey woolsey, table-cloths, grain bags, shirting, and

other articles of wearing apparel. Most of the straw sold by the farmers at the mills is dew-totted by themselves. Some of them are beginning to be quite au fact at the rotting process, while many are so inex perienced in regard to it, that the straw they offer commands only an inferior price, from the imperient manner in which it is prepared.

All the mills carried on by the Messrs, Perine are on what may be styled the old principle. The straw is broken between heavy fluted iron rollers, and scutched by means of steel-bladed knives fixed in a cast-iron wheel. The flax is first passed in handfuls between the rollers, then a man exposes the seed end to the action of the scutching knives, a process peculiar to the Messrs. Perine, and by which the seed is separated from the tow. Unless the seed be removed, it makes rough places in the manufactured article, even in cordage. In the next place, the handful passes to the roughers, who partially scutch it. the finishers then take it and complete the process of the infisiers then take it and complete the process of scutching. By a very simple arrangement of a framed stool and lever, the soutched flax is made up into bales, when it is ready for shipment and sale. Most of the fibre produced at the Messis, Perine's mills finds its way to the American market, while the seed not required for next year's crop, is sold to Lyman, Clare & Co., of Montreal, who manufacture linseed oil, oil-cake, &c., from it. The works of the Messrs. oil, oil-cake, &c., from it. The works of the Messrs. Perine are simple, and might be regarded by connoiscurs as rather primitive in design, yet in the opinion of the proprietors, they are superior to some of the more modern arrangements. They prefer their own method to the much-enlogised Rowan machine, more particularly for the following reasons. The Rowan machine they think fails in securing evenness of length, and leave, the flax "rattailed." It also breaks the ends of the bunches too much, and does not break the middle sufficiently. This arises from the fact that first one end, and then the other is put into the machine, leaving the middle only partially broken. Whether this opinion as to the merits of Rowan's machine be correct or no, certain it is that the Messrs. Perine succeed in turning out an excellent article of marketable flax. Specimens of it were kindly fi raished us at our request, and will be on exhibition at the office of the Canada Farmer, so that any parties who feel an interest in this important subject, may at any time call and inspect them. In conclusion, we have to express our sincere acknow-tedgements to Mr. J. S. Perine, for the polite and obliging manner in which he set himself to facilitate the object of our visit, and we cordially wish him and his enterprising brothers all the success they so richly deserve.

Rolling Pasture Lands.

The rolling of pasture lands is advisable in all cases where it is judiciously performed. The effect of the roller upon grass lands is beneficial, not merely from the fact that it smooths and consolidates the surface, but it protects the roots from the injurious effects of drought, destroys and prevents the forma tion of ant-hills, and will often prove destructive to moles, as well as many other enemies to pasture lands. But in order to secure these beneficial results, the greatest caution should be exercised. On this subject Dr. Wilson says:-"Rolling must be judiciously performed under suitable circumstances of the ously performed under suitable circumstances of the tand, else it will bruise the herbage, damage the roots, close the pores of the soil, and, in general, do vastly more harm than good. It ought, if circumstances permit, to be performed about a fortnight before the field begins for the season to be depastured; and it ought never, in any circumstances, to be performed, except when the sward is quite dry, and when the soil, or the seat of the roots is sufficiently yielding to prevent the bruising of the leaves, or the rupture of the roots beneath the pressure of the roller. Sandy and semi-clastic soils, may be rolled at any time when and semi-clastic soils, may be rolled at any time when their sward is dry; but clay lands may be rolled advantageously, only when any little lumps or inequalities on their surface erumble with the pressure of the foot and are not flattened and consolidated, but enter softly and wholly into the combination with the surrounding soil. But whenever a sward is in the compact and tenacious condition, which is technically known as hide bound, rolling even under the most favorable circumstances, would injure rather than improve it, and scarifging must be practiced instead, to loosen the surface, to give the roots new facilities for absorbing food and producing herbage, and, if thought desirable, to serve also as a powerful precurrent aid to the beneficial operation of a topprecurrent aid to the beneficial operation of a top-dressing of manure."— Gelhurist.



The Lield.

Under this head we propose to discuss the various matters pertaining to crops of all sorts. Though the present is not the season for field operations, vet it is an excellent time for forming plans to be carried out when the proper period arrives. Now, when there is comparative leasure, the farmer should study such matters as the laying out of his farm to the best advantage, the adoption of a good rotation of crops. and the establishment of a system of keeping farm accounts. These are points of much importance, and by giving timely attention to them, work will be done more effectively when the rush of spring business comes on. To carry forward the labours of the farm systematically and seasonably, requires no little prior consideration. Our seasons are short and limited, much must be crowded into them, and just as a good packer will put far more into a box than a careless person will do, so will a good planuer put far more work into the year, and get far more profit out of it, than his disorderly, slip-shod neighbour. Then here is immense satisfaction connected with having work under control, so that however busy one may be, he drives his work instead of letting it drive him. A skilful farmer will aim to carry on all his labors with clock-like regularity, and thereby secure efficiepcy and comfort.

Winter is also a good time to provide choice seed for spring sowing. When this important matter is left to the last moment, in too many cases either the favorable opportunity for sowing is lost, or seed of inferior quality must be put into the ground—both of them evils to be sedulously avoided if possible.

By chopping and hauling a supply of firewood and fence timber, getting implements into thorough repair, providing labor-saving contrivances and conveniences, and in various other ways, the thoughtful, diligent farmer, may make even the dreary season of winter contribute largely to the profits of the year.

Culture of the Grasses.

One of the most important operations of the farm is the cultivation of the various grasses for pasture and hay. Grain, grass and roots comprise the means of keeping up, without exhaustion of the soil, or loss of time by fallowing, a judicious and profitable rotation of crops. When land is in proper heart for producing heavy crops of the improved grasses, most other products will grow well upon it. A thorough discussion of this branch of periculture is a larger task than we propose now to undertake: but as an important topic, to which we shall from time to time have occasion to advert, a few words in our first number seem to be appropriate. The management of meadow and pasture lands is a matter on which too many farmers bestow very little thought and attention, from the general prevalence of the idea that man has but a very small part to play in securing a good forage crop. It is usually regarded as almost wholly a question of wet or dry weather. If the spring he showery, a good growth of pasture and a large yield of hay are expected as matters of course; and if the spring be dry, fallure is looked upon as certain. Without now alluding to artificial irrigation as a remedy for drought, further than to say it is in many cases a very practicable expedient, and by no means the Utopian affair many think it, there are several ways in which the uncertainties that beset the grass crop may be lessened. Deep culture, indicious selection and admixture of seeds, top-dressings of suitable manures both natural and artificial, care in admitting stock only at proper times, timely elternation with other crops, and culture of grass for green manure-are points upon which a great deal of thought and attention may and ought to be expended by every intelligent and prosperous tiller of the soil. Drainage is one of the best antidotes against the evil effects of drought. A meadow or pasture that is closely swarded over will bear continuous dry weather far better than one in which the grass is bunched or tufted; while top-dressing acts both as a mulch and a fertilizer. While we cannot wholly prevent those fluctuations in the grass crops, which discourage many from going largely into them, it is possible much more nearly than is generally supposed, to equalize the yield from year to year.

Care in the selection of suitable and clean seed, of good quality, is also a very important matter. Our farmers are pretty well acquainted with the merits of timothy and clover; but there are other grasses valuable to mix with these, and well suited to the soil and climate of Canada, which are not much used in this country. To these and other matters connected with grass-growing, we shall have occasion to draw attention in future issues of the Canada Farmer.

Shuneage of Har.—The loss upon hay weighed July 20th, when cured enough to be put in the barn, and again February 20th, has been ascertained to be 27½ per cent. So that hay at \$15 a ton in the field is equal to \$20 and upward when weighed from the mow in winter.

Good Wheat.—J. J. Mechi, of England, writes to the Mark Lane Express that he has threshed three fields of wheat: the first two yielded 58 bushels per acre, and the third field 52 bushels per acre. Part of t was red wheat, and part white wheat. The red wheat weighed 66 pounds, and the white wheat 64 annuls per hyshel. pounds per bushel.

Top-Dressing Meadows.—A farmer in this neighbourhood says he top-dressed a three-acre meadow, a vear ago lastfall, by way of experiment. He allowed the cattle to remain on it till the 28th of May, when they were taken out; and in five weeks from that time he cut two tons of good hay per acre. He thinks there is no way of using manure more profitably than as a top-dressing for grass.—Genesee Furmer.

Sorghun vs. Wheat.—A writer in the Wisconsin State Journal tells of a Dane County farmer who kept an exact account of all his farming operations during the past year. He found his sorghum and wheat crops to compare as follows:—After paying labour, rent of ground, expenses of marketing, &c., his wheat crop paid \$2.50 per acre net profit; sugar cane, \$14.00; thus making the net profit of cane as compared with wheat in the ratio of five and three-fifths to one.

Sorghum at the Western States.—Owing to the great drouth of the past summer, and the early frost, the crop of sorghum at the West has turned out badly. Mr. Mason, of the Illinois Central Railroad, planted 250 acres, and obtained from it only 105 barrels of syrup and 400 barrels of vinegar. The cost of raising and manufacturing was \$2,300. After deducting the market value of the vinegar, the cost of the syrup would be about 40 cents a gallon. In an ordinary season he would have had 1,000 barrels of molasses, instead of 105 barrels, and the cost per gallon would have been very trifling. Notwithstanding the unfavorable results of the past season, Mr. Mason has concluded to plant this year from 250 to 400 acres.—Genesee Furmer.

PREMICK TURNIT CROTS.—The Hamilton and Wentworth Agricultural Society having offered prizes for the best four fields of turnips, of not less than two acres, the following award was made by the judges after due examination of the crops entered for competition:—The first prize was awarded to Thomas Stock, of East Flamboro', for a field of eight acres. The yield was twenty-five tons six cwt. and forty five lbs. per acre. The second prize was awarded to John Weir, of West Flamboro', also for a field of eight acres. The yield was twenty-five tons, no cwt. and eighlyfive pounds. The third prize was awarded to W. A. Ccoley, of Ancaster, for a field of five acres of Purple-PREMIUM TURNIP CROPS.—The Hamilton and Wentlive pounds. The third prize was awarded to W. A. Cooley, of Ancaster, for a field of five acres of Purpletop Swedes. Yield, twenty tons, eighteen hundred and ninety-five pounds per acre. The fourth prize was awarded to John Kelly, of Ancaster, for two acres of Skirving's and Laing's Swedes. Yield, twenty tons, fifteen cwt. and ten pounds per acre.

RAISING BRANS.-Beans can be raised where other trouble cither. The white bean will cover your barren knolls, and benefit your pocket—and be not much trouble either. The worst is to dry them, to those who are not initiated in the mysteries; and these who are not initiated in the mysteries; and these mysteries are simple—only to get your beans when ripe above the ground, with a chance for the air to circulate readily. This secures your bean. The usual way is, to drive a stake into the ground, and put your beans around it, raising the column as high as you like, and can do with safety from the wind. This is shelter, air and freedom from the ground. Uniformity of size and ripening should be aimed at in selecting seed. This uniformity will be seen in the crop if fairly cultivated. A uniformity of size gives a good appearance to the beans—so does equal ripening. appearance to the beans—so does equal ripeuing.
In a word, every bean clear and hard—all alike—
this is what is wanted. Select them accordingly.—St. Louis Furmer.

GREEN CORN AS MANURE.—The following mode of increasing the fertility of land might prove useful where it is difficult to get manure:—

A farmer in Bucks Co., Pa., a few years since, made some experiments going to show the value of growing coru for manurial purposes. On a field of orty-seven acres—part of a farm that had been rented for more than len years, and had become as most rented farms do, very much impoverished—he sowed ten acres to corn in July, at the rate of two bushels per acre. It was left to grow until it was four feet high, and then ploughed under about ten inches deep. No manure was put on this part, but the remainder of the field was heavily manured, and the whole sown to wheat. The crop averaged 34 the whole sown to wheat. The crop averaged 34 bushels per acre, that on the ten acres fully equal to that dressed with manure. We believe that lime was applied to the whole field before sowing en the grain—assisting, with the deeper ploughing, very materially in restoring the soil to a highly productive state.



The Apiary.

"So work the honey bees Creatures that by a rule in nature, teach, The art of order to a peopled kingdom."

Thus wrote England's greatest poet respecting the insect, which is universally known through one of childhood's simple rhymes, as the "little busy bee." But without stopping to dwell on the lessons in prose or poetry which have been drawn from the ways of this wonderful insect, or the pleasure which may be derived from observing its habits, our present duty is simply to introduce it as one of the workers of the farm, and to speak of its management as a not unimportant branch of rural economy. Bee-keeping may be successfully practised in most, if not all parts of Canada, and made a source of considerable profit. Honey is an important article of commerce, in universal demand, and capable of being put to many useful purposes in every household. There is no other branch of industry which requires less outlay of capital, or brings a better return from the small amount of money and labor expended in its prosecution. The profits of bee-keeping are derived from the vast domain of nature, and may be secured without the least interference with any other operation of the farm. Least such any other operation of the farm. Least such as a surpaid to bee-keeping, every square mile maintains its hundreds of colonies. A German writer asserts that in the winter very advantageously and profit abundreds of colonies. A German writer asserts that in the winter very advantageously and profit abundreds of colonies. A German writer asserts that in the winter very advantageously and profit abundreds of colonies. A German writer asserts that in the winter very advantageously and profit ably. And while they do this work, they are taking a very important step towards introducing a renovating system of farm management, and of improving the fertility of their soil, not only for grain, but for grass or vegetables. Where the water from the caves of the buildings is permitted to fall into the manure-yard, cave-troughs should be put up as soon as may be practicable, as a few heavy showers will often injure the value of manure enough to pay the expense of good eave-troughs to a barn. The skillful farmer's motto must be, in the winter, to save all the manure, and raise large crops next season.—B. Educarls Todd.

tions and improvements render all appreliension on this subject needless. Principles have been ascertained by observing which the most timid may handle bees with the utmost freedom, and manage them with the most complete success. Mr. Langstroth, in his recent work on this subject, says .- "Acquaint yourself fully with the principles of management detailed in this treatise, and you will find that you have little more reason to dread the sting of a bee than the horns of a favourite cow, or the heels of your faithful

In future issues, we shall endeavour to inform our readers as to the most approved methods of bee-management, in the hope that they will be encouraged to give this department of rural economy the attention it deserves.

Wintering Bees.

DIFFERENT methods are practised in wintering bees. It is necessary to protect them especially from two things: from being frozen and from being starved. The latter happens when they collect together closely in the coldest weather, and the comb becomes covered with frost and ice, the moisture from their bodies and from the air being there deposited and frozen, excluding them from the honey. The entrance to the hive is liable to be stopped with ice, and the been thus suffocated. The bee never passes into the torpid state in winter like some other insects; it perishes at a degree of cold low enough to freeze it. As in the case of other kinds of farm stock, it requires less food when kept warm and comfortable. If the hives are to be carried into a house or cellar, the place for them should be cool, dry, and dark. The best method is to house them, unless sufficient protection can be given them on the stands. The Russian and Polish bee-keepers, who manage bees as extensively and successfully as any, winter their hives on the stands; but they make their hives of inch-and-half plank, and wind the upper part with twisted ropes of straw or cordage to increase the protection against extremes of the heat and cold. If left on the stands, hives made of common boards need additional covering; the entrance should also be narrowed, so as to leave only space enough for a single bee to pass. This must not be allowed to become stopped with frost and ice, or dead bees and filth. Light snow may cover the hive without danger. The practice of bee-keepers is about equally divided between these two modes of wintering. The success of out-door wintering would be greatly increased by making better hives, and by exercising more care in protecting them from severe cold, and from changes of temperature. It is easier and preferable, when the number of hives is very large, and there is no danger of theft, to manage them out doors than in-doors. With a small number it may be otherwise.—New Am. Cyclopedia.

ACCLAMATIZATION OF HONEY BEES .- Dr. A. Gertsacker, in concluding a very extensive memoir on the distribution of the honey-bee, observes that the most valuable form for Europe would be the Egyptian, partly on account of their beauty, and partly because of their unwillingness to use their stings, which appears to be common to all African bees, and is also one of the recommendations of the Italian bee. The Syrian bee agrees so closely with the Egyptian that it may prove equally valuable; and next to these in value are the bees of the coasts of Asia Minor.

237 PROTECTING manure by erecting cheap sheds er it, is an item of labour that farmers can work PHORTHORN AT THE UPPER CANADA PROVINCIA!

We commence today our Portraits of Thorough - bred Stock with that of Baron Solwar, the property of Mr John Saell, of Edmonton. one of our most enterprising and successful breeders. Baron Solway, as a calf, carried off the First Prize at the Provincial Exhibition at London; he carried off the First Prize at Toionto, in 1862, as a yearling; and last year he not only percived the Prizo at Kingston as the lest two year old on the ground, but also the Society's Diploma for the best Dorham Bull of any age. Baron Solway was calred on tho 9th Oct., 1860. He was bred by Mn

Robert Syme, of

chased by Mr. Snell in 1861, and imported to Canada. chased by Mr. Snell in 1001, and imported to chandle. Ho was got by General Havelock (16130), bred by Mr. Unthank Netherscales, dam Snowdrop, vol 2nd page 699, by Strathmore (5647), grand dam Catherino 'rd, by Play-fellow (6297), g.g.d. Young Catherine, by Sir William (12102), g.g.g.d. Catherine, by Empere (1974)

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peror (1974).
Mr. Snell commenced with Short Horn cattle in Mr. Snell commenced with Short Horn cattle in 1852, by purchasing the cow Red Rose, got by Young Briton, 275, in the Upper Canada Stock Register. Dam imported Lady Jane, descended from the famous stock of Mr. Booth in England. In 1857 he purchased from Mr. F. W. Stone, of Guelph, at very high figures the cows Fairy, Fancy, Polyanthus 2nd, and Lady Barrington 11th. Fairy was imported in 1854, by Mr. Stone. Fancy from Tairy and got by John O'Gaunt 2nd, imported in 1853, and bred by

BARON SOLWAY

Gaunt 2nd has been a successful prize-taker at several Provincial Exhibitions. Polyanthus 2nd, got by John O'Gaunt 2nd, dam Polyanthus imported in 1853; bred by Messrs. Morton, Skelmergh Hall. Lady Barrington 11th, by John O'Gaunt 2nd; dam Strawberry, by Kirkleavington 2nd.

In 1861, Mr. Snell purchased from Mr. William Miller, of Pickering, the three imported cows, Syren, Sybil, and Rosa. Bred by Mr. Robert Syme, Red Kirk. Dumfries, Scotland, all got by Baron Kidsdale (11156). Bred by Mr. M. Stewart, Dumfries, Scotland. Also Bessie Bell, by imported Young England, dam Rosa.

Mr. Snell has lately added to his stock by purchas ing from James Metcalf, Esq., near Toronto, the cow Conquest, bred by the Hon. Adam Fergusson, got by by Victor, (12268). Also, Nanny, from Conquest.

and got by General Havelock, bred by Mr. Edward Ladd Betts, of Preston Hall, Kent, England Imported by the Hon. John Ross Toronto.

Mr. Snell's herd has been brought to its present standing by using the following bulls. First. "Belted Will 4th," No. 68, in Upper Canada Stock Register, and (12461) English Herd Book Bred by Mr. Ralph Wade, senr., of Port Hope, C. W., got by Robin Hood (13608) dam Duchess 2nd. Belted Will 4th was the winner of two first prizes at Provincial Exhibitions. Second, "Prince of the West," got (in England,) by young Scotland (13681), dam imported

Redkirk, Dumfries, Scotland, from whom he was pur- | Mr. J. S. Tanqueray, Hendon, England. John O'- | "Cherry Pie," bred by Mr. Jonas Webb, of Babraham. Gaunt 2nd has been a successful prize-taker at several | England, by Lord of the North (11743)—by the Duke of Northumberland, bred by Mr. Bates. Prince of the West took the first prize at the Provincial Exhibition at Kingson, in 1859, as a three-year old. Third, "Cobden," 460, got (in England,) by Emperor, bred by F. Jordan, Esq., Yorkshire, Emperor by Ali Pasha (12378), dam imported Jenny Lind, bred by F. Jordan, by Lord Grey (10446), bred by the Earl of Carlisle. Cobden took two first prizes at Provincial Exhibitions. Fearth, "Baron Solway," whose pedigree is given above.

Mr. Snell's herd of Evort Horns now comprises thirty-five animals, twenty-eight females, and seven of Northumberland, bred by Mr. Bates. Prince of

Mr. Shell's herd of Evolt forms of the thirty-five animals, twenty-eight females, and seven males, descended from some of the bost herds in England and Scotland, including those of Messrs. Booth, Bates, Tanqueray, Morton, Betts, Webb and

Syme.



The Breeder and Grazier.

THE keeping of live stock to consume on the farm a large portion of the products raised is an important branch of agricultural economy. It is a very common, but most erroneous practice to grow chiefly grain crops, especially wheat, because they can be most readily turned into cash, and larger profits for the moment realized. To a great extent, hay, straw, and grain instead of being consumed on the farm, and fertilizing material for the land provided, are sold off without any regard to the necessity of keeping up the equilibrium between fertility and yield, by a liberal supply of manure. In the peighborhood of large towns and cities, it is doubtless good policy for the farmer to sell off all he can raise in the market which has close to his own door, but when he does this, let him take care that for every load of produce he drives into town, a load of manure is teamed back to his arm. If this be neglected, the land will infallibly become more and more impoverished. Both farm and farmer grow poor on such a system. Unquestionably one of the worst characteristics of Canadian farming is the lack of attention to manufacture. This feature is so conspicuous as to excite the attention and provoke the comments of the state. How been derected at he land as poverty-

following statements on this subject in a recent Amefollowing statements on this subject in a recent American paper. They are full of truth and reproach: "I have just returned from Canada, and it is a splendid country. But they are running the land pretty hard. They do not keep stock enough. It is all grain. I was on one farm of 150 acres, and the whole stock on it consisted of 15 sheep, 3 cows, 3 head of young cattle, and 3 or 4 horses. The farmer head of young cattle, and 3 or 4 horses. The farmer had a stack of peas as long as a freight train, but he seemed afraid to buy sheep to cat the straw." New land, rich in the food required by plants, bears this kind of treatment for a time, but must at length succumb to a mode of tillage so exhaustive and suicidal. The early settlers in a new country, finding that abundant crops reward even the most careless husharder, are very and to think the victin soil income. bandry, are very apt to think the virgin soil inex-hausible. But, sooner or later, they will discover hausible. But, sooner or later, they will discover that they have made an egregious mistake. In proof of this, many facts might be given. For example, the State of Virginia, one of the most fertile of the earlier settled States, yielded at first immense crops of corn, wheat, and tobacco. But no manure being supplied to the soil, a process of deterioration set in which has gone on until now thousands of acres of what was once the best land in the State, have been abandoned altogether, or if worked at all, only give

stricken from some occult cause only to be sought in the realms of meteorology and climatology. But the solution is nearer home and far simpler. The land has been taxed until its resources have failed. The nature of the evil suggests the knoremedy. Manure, as afforded by animals, is the great source of continued fertility, and the best means of thorough renovation. Its production depends upon the rearing, keeping, and feeding of kive stock, whereby we are enabled to give back to the soil in the state of plant food, a large proportion of what is taken from it by keeping, and reeding of the stock, whitesy we can bled to give back to the soil in the state of plant food, a large proportion of what is taken from it by the processes of vegetation. Norneed the farmer's gains be even temporarily diminished by a resort to the more roundabout method of raising live products for the uses of the dairy and meat market. In the long run, heavier growths and larger profits will reward a policy, which if somewhat slow, has the grand merit of being sure. By alternating forage and root crops with crops of grain, a large number of sheep and cattle can be kept, and their droppings applied to the land. It is thus that British agriculture has of late years achieved its remarkable results. Not only by the cultivation of forage and root crops, but by the outlay of almost fabulous sums upon oil-cake and other purchasable articles of food, do the more advanced agriculturists of Britain maintain their astonishing averages of wheat per acre, and still keep their vanced agriculturists of Britain maintain their astonishing averages of wheat per acre, and still keep their land in vigorous heart. One of their number, Mr. Alderman Mechi, lets out the secrets of successful farming by saying, "My farm is overflowing with plenty, and promises a grateful return to drainage, deep tillage, plenty of manure and irrigation." Canadians must imitate such examples, or it will be impossible to maintain that place in the front rank of agricultural countries, which has been assigned us by nature, and can only be forfeited by our culpable neglect of the appliances a bountiful Providence has put into our hands.

To keep this important matter prominently be-

To keep this important matter prominently before the farmers of Canada, will be one of the prime objects for which this journal will zealously and con-

stantly labour.

A sow kept on hay alone at the rate of 30 lbs. per day, would be required to secrete about 150 lbs. of saliva to prepare it for deglution, but if 60 lbs. of ruta bagas are substituted for an equivalent of the hay, redacing the latter to 13 lbs., the draft upon the system for saliva would be but 100 lbs., thus saving in this secretion alone an amount equal to the entire pages of the blood in the system. mass of the blood in the system.

Large Oxes.— At the Smithfield Club show the following were the measurements of the first-prize animals :--

	HER OX KAN YEARS		PRIZE OX HREE YEARS.
HERETORD	4 ft J in 5 ft 4 in	9 ft. 4 in. 9 it. 1 in. 9 ft. 8 in.	Length. 4 ft. 10 in. 5 ft. 6 in. 5 ft. 6 in. 5 ft. 4 in. 5 ft. 1 in.

The Devons appear to be looking up.

ZT Calves should be fed in winter very differently rom the manner in which, we may say, they are almost universally treated in this country. They should be fed on fine English or Interval hay, with a quart of oats apiece, or an equivalent in turnips or carrots. They should be fed regularly and allowed to run loose, with enough bedding to keep them dry. Observant farmers say one quart of grain per day, during the first winter, will do more towards fitting the animal for the butcher when it is rising three, than four quarts a day fed at that period. This is a fact well worthy of attention, and one, the conomy of which cannot be questioned.—New Brunswick Furmer.

BEAUTY IN STOCK has no invariable standard. In the estimation of some it results from small boucs and close, compact frames; while others consider that structure the most perfect, and therefore the most beautiful, which is best adapted to the use for which it is destined. With such, beauty is relative. It is not the same in an animal designed for beef and in one designed for the dairy or for work. The beauty of a milch cow is the result of her good qualnies Large milkers are rarely cows that please the eye of any but a skillful judge. They are generally poor, since their food goes mainly to the production of milk.—Jennings' Cattle and their Diseases.

FEEDING OATS TO HORSES.—A correspondent of the Rural Register gives his experience as follows, or feeding horses. He says:—"the same quantity of eats given to a horse produces different effects according to the time they are administered. There is, cording to the time they are administered. Incre is, decidedly, a great advantage in giving horses water before corn, and an injury in giving water after corn. There is a bad habit prevalent, namely, that of giving corn and hay on their return to the stable after hard work. Being very hungry, they devour it eagerly and do not masticate, the consequence is, it is not so well digested. When a horse returns from work, perrest for a time, then give a little hay, a half an hour afterward water, then cats. By this plan water may be given without risk of cold."

NEGLECT OF CATTLE IN WINTER.-The Maine Board of Agriculture forcibly remarks on the above sab--" Agood-sized one-year-old, in usual flesh at the ject:—"A good-sized one-year-old, in usual flesh at the commencement of winter, will weigh about 600 pounds, a four or five year-old ox, 1,500 peands. It is not so uncommon as it ought to be for them to fall off during the winter, from one-fourth to one-third in weight, for want of proper food and shelter. The result is the owner has lost on the year-old 200 pounds, and on the ox 500 pounds of beef during the winter, which is worth in the one case \$8, and in the other \$20. The animals have really consumed one-third of themselves to carry them through the winter. Often our neat cattle are fed in the winter on beef and tallow, sheep on mutton, logs on pork and lard, horses on horse-flesh – all expensive articles of food, compared with hay, grain, and the various root crops."

Overfeeding with young succedent clover produces indigestion, resulting in what is termed "hooven." The best preventive is to allow them to cat but moderately of this material; and the best remedy is to give about half a teacupful of finely pulverized charcoal to each animal—to large animals a teacupful may be given. It must be fresh, and must be prepared for the occasion by taking live coals from a wood fire, and pounding them immediately in a mortar. Hard wood, such as beech, maple, and oak, is too hard to mularize easily; and very rest wood. mortar. Hard wood, such as beece, maple, and cak, is too hard to pulverize easily; and very soft wood.

Two of the greatest mistakes, if not the greatest of the present day in the breeding and training of the der; an intermediate hardness is best, such as soft maple, white wood or tulip tree, &c., but this is not a maple, white wood or tulip tree, &c., but this is not a matter of great consequence, as any kind will do matter of great consequence.

upwards as usual, by throwing the halter over a beam. The cure which this medicine accomplishes, will be effected in a surprisingly short time.—Country

20 We find an article going the rounds of the papers upon the use of salt for fallening swine. The writer states that he "selected two pairs of barrow writer states that he "selected two pairs of barrow hogs weighing 200 c..ch. One pair received, with their daily allowance of food, two ounces of salt; the other, similarly fed, none. In the course of a week it was easily seen that the salted pair had a much stronger appetite than the others, and after a fortinght it was increased to two ounces a piece. After night it was increased to two ounces a piece. After four months, the weight of the salted hogs was 350 pounds, while that of the unsalted, five weeks later, reached only 300 pounds. The experiment was repeated with almost precisely the same results." Another neglect of swine—and sometimes it must be a cruel one—is that of not giving them a plentiful supply of pure cold water. Why it is supposed that the hog should not need water as well as the cow and sheep is more than we can tell. They do require it. When water is not given them, although fed with swill, they will drink heartily of the water collected it. When water is not given tuem, annough sea wish swill, they will drink heartily of the water collected in the yard or barn-cellar, after visiting their trough several times, and finding it empty and dry. Nocking is more grateful to them in a hot day than a bucket of cold water, drank from a clean, sweet trough.

able system of agriculture, is from its nature involved in considerable complexity, and variously affected by prejudice, self interest and a traditionary routine. Instead of blindly adopting the dogmatism of empiricism, as is too frequently done, the enlightened and progressive farmer will be careful to form correct habits of observation on the varied phenomena presented in the breeding and rearing of the different kinds of live stock in their relation to soils, climate, markets, &c.

In the breeding and rearing of cattle and sheep, the principal qualifications to be considered have re-ference to the production of food and clothing for man. It is not so with the Horse. He is mainly regarded as a beast of burthen or draught, and forms regarded as a beast of burthen or draught, and forms an indispensable instrument in aiding man to develop the latent resources of the soil. The Horse, therefore, occupies the highest position in the agricultural scale, as he does also in that of field sports and the turf.

As this noble and most useful animal, everywhere the servant and companion of man, has to perform so many different duties under an almost endless variety of physical conditions, Providence has wisely endowed it with a capability, greatly nided and improved by human art, of adapting itself, however slowly, to the different states or circumstances in which it may be placed. Hence the different breeds and varieties which are found adapted to different climates and the varying wants and purposes of man. In point of size, for instance, what a contrast does the tiny and beautiful Shetlander present to the lunge and powerful dray horse, and in regard to the power of locomotion, how different is the latter to the swift-footed motion, now uncerent is the latter to the swilt-looked racer! It is from the study of these differences, and the laws which govern them, that we are enabled to form a proper estimate of the qualifications of the various breeds for the race-course, field sports, or the labors of the farm. All that can be done within the limits of a single article is to seize on a few of the more salient points of so extensive and complicated a subject, and to offer such suggestions as seem to have a practical application.

Two of the greatest mistakes, if not the greatest of

has been coming of late years over the once beautiful and valuable breed of Irish horses, so well adapted to the pleasures of the chase, or the ordinary work of the farm. In consequence of the aeglect of the above mentioned conditions, we are told that it has become a matter often of no small difficulty to select in that country, (and the remark will apply, with certain limitations, to other portions of the United Kingdom,) well-suited and unexecutionable animals for the dimitation, to other portions of the United Kingdom,) well-suited and unexacptionable animals for the chase, the plough, or the carriage. Speaking of the former races of the Irish horee, a modern and most competent observer remarks:—"They had neat and lively looking heads; light and well-set up necks; elevated, sharp, and far-back shoulders; full and very down chasts attentions and sure standards. clevated, sharp, and far-back shoulders; full and very deep chests; strong, sinewy, and sound legs; good feet; short backs; and all-powerful quarters, which were so placed under them that they could spring with ease over any fence. Their size, strength and shape fitted them, in an eminent degree, for the field, the road and the farm. Besides, they were never trained till they were four or five years old. Their constitutions had then arrived at a pitch of great per fection. The extremities of the long bones were then completely solidified, and, consequently, were less liable to become diseased from the effects of labour than they would have been at a previous period, when in a state of cartilaginous softness."

The severe work to which young horses are now subjected is the chief cause of their present great liability to disease. If they were well fed, and allowed to mature their constitutions before being trained, they would, in all probability, remain sound for a considerable time. Blood hereas enforcement.

Animals—The Best Breeds for Canada,

THE HORSE.

11 is proposed within the limits of two or three short papers to consider some of the more prominent characteristics of the Domesticated Animals, not so much with a view of determining which breeds or varieties are absolutely the best for Canada, as to clicit information and the results of experience of practical men in different parts of the country. Dy carefully collating facts, comparing notes, and guarding against hasty generalizations, safe and valuable conclusions may be ultimately reached. The Cattle question, in its relations to an improving and profitable system of agriculture, is from its nature involved.

Sheep Husbandry.

Sincer should be kept under sheds, and their fine condition maintained by a feeding of about half a pint of corn daily to each, giving less early in winter, and more towards spring. A small regular feed-ing of roots would assist in keeping up their excellent condition .- Genesee Farmer.

Damage to Sheep.—In the report of the State Board of Agriculture for Ohio it is stated that the number of sheep killed by dogs, in 1862, was thirty-six thousand seven hundred and seventy-eight, and during the same period, twenty-four thousand nine hundred and seventy-two were injured—the total value of the canine destruction being \$136,347.

Water for the Sheef.—A very false notion prevails among farmers as to whether sheep require water in winter; some asserting that they have need of none at all, in any form, and others that they are able to slake their thirst by cating snow. No theory could be more erroncous. The physical constitution of the sheep, in this respect, differs not from that of other domestic animals, and it has immunity from thirst no more than they. By certain experiments on this point, recently made by Mr. Lawes, of England, it was clearly established that sheep do require a considerable amount of water—the average being 40½ lbs. per week, or nearly 6 lbs. per day for such as were kept on dry feed.

Salt —Salt is not perhaps quite as necessary to the health of sheep in winter as in the summer, but still all good shepherds regard it as indispensable. It should be fed as often as once a week, in the feeding troughs, or by brining a quantity of hay or straw. The Vermont breeders almost universally keep it standing constantly before their sheep in boxes placed in the sheep-houses. My friend Gen. Otto F Marshall, of Stueben County, Now York, has an excellent and economical mode of feeding it. The orts when taken from the sheep racks are thrown inte a box-rack, wider and considerably higher than the common ones, and placed under a shed. The orts are sprinkled with brine, and the sheep when hungry for salt go to the ort rack and consume them. Then all the hay is saved.—Practical Shepherd.

One Cake for Ewes.—John Johnston writes to the Country Gentleman says: "You may feed oil cake meal to ewes with perfect safety, and thought nothing I ever fed made such good lambs, or so much wool. I also feed some to my enws every spring I answered a letter from Pennsyli ania a few days now, asking all who read to is need make no farther meaning of October to the 1st of March, they gained nearly 13 pounds each per week. They were full-blood Meahour read to is need make no farther meaning of October to the 1st of March, they gained nearly 13 pounds each per week. They were full-blood Meahour read to is need make no farther meaning of October to the 1st of March, they gained nearly 13 pounds each per week. They were full-blood Meahour read to is need make no farther means of October to the 1st of March, they gained nearly 13 pounds each per week. They were full-blood Meahour read to incore fall not those with the large cratals around their teeks. I have fed sheep for the eastern markets for more taken 30 years, and I always made a profit out them except in 1841-2. I then fed at a loss. It was a tight squeeze in 1850-1 to get their dung for fattening cattle or sheep I don't know but it may be better to feed half oil meal and halt corn meal; but, and the sheep in 1860-1 to get their dung for fattening cattle or sheep I don't cost more may be better to feed half oil meal and halt corn meal; but, as I have often with the large cratals around their teeks. I have fed sheep for the eastern markets for more than 30 years, and I always made a profit was a tight squeeze in 1860-1 to get their dung for fattening cattle or sheep I don't cost more than 20 years, and I always made a profit was a tight squeeze in 1860-1 to get their dung for fattening cattle or sheep I don't cost more than 20 years, and I always made a profit was a tight squeeze in 1860-1 to get their dung for heat corn the cost more than 20 years, and I always made a profit was a tight squeeze in 1860-1 to get their dung for heat each from the 20th of the tot On Case for Ewes .- John Johnston writes to the substitute for oil meal to mix or alternate with corn. Oil meal keeps both cattle and sheep in good health. I am feeding it this year at \$40 per ton the first I fed (about 25 years ago) I paid \$9 for same quantity."

Dividing Sheep Flocks for William In latitudes where sheep are fed dry feed, and are kept confined to stables and small yards in winter, even Merinos will not bear herding together in large numbers. They should be divided into separate lots before, and preparatory to going into winter quarters. It is better that these lots be made as small as convenience permits, and not exceed 100 each. The sheep in each should be as nearly uniform in size and strength as practi-cable, or otherwise the stronger will rob the weaker. cable, or otherwise the stronger will rob the weaker, both at the rack and trough, and drive them about whenever they come in contact. Breeding ewes, wethers and weaned lambs, should always be kept in separate parcels from each other, in well regulated flocks. Sheep which are old and feeble, late born lambs, etc., had better be sold at any price or given to a poor neighbor who has time to nurse and take care of them. But if kept by the thock-master, they should be put by themselves in a particularly shettered and comfortable place where they can receive extra feed and attention. This is usually called "the hospital." English sheep should be divided into still smaller parcels, and with the same regard to age, condition and sex.—Randall. condition and sex .- Randall.

BEST CLIMATE FOR SHEEP -Sheep can stand cold weather without injury if it is dry. andden changes and cold rains are very injurious. We believe sheep and cold rains are very injurious. We believe sheep require shelter quite as much in the South-west as at the North. The weather is not as cold, but is more changeable, and the sheep frequently get thoroughly soaked to the skin. In this condition, a cold, raw wind and adampsoil can not help but carry off much of the heat which is necessary to the well being of the sheep. The natural heat of the body of sheep (105°) is much higher than that of horses and cattle. This much higher than that of horses and cattle. This heat is kept up by the consumption of food (or burning of fuel) in the hings, etc., of the animal. To prevent this heat from flying off, the sheep are provided with a good warm coat of wool. To be effectual, however, the coat must be kept dry. In a cold, dry climate, if the wool gets a little wet on the ontside it is soon frozen, and this acts as a coat of mail, with a good warm lining of dry wool inside, so that the heat from the warm body within does not fly off. It is said that the Scotch Highlanders, in olden times, when exposed during frosty nights, wet their plaids before lying down to sleep, and by holding them a short time from their bodies they were frozen in a stiff hard board, sufficiently thick and impervious to defend them from the cold. The slight coat of frozen wool acts in the same way. But in wet weather there is no such protection, and so it is that you will find it equally important to provide shelter in the warm, it equally important to provide shelter in the warm, but wet and changeable climate of the South-western States.—Am. Stock. Journal.

Fattenino Sheep in Winter.—The present ordiary mode of fattening sheep in winter in New York, a thus described in a letter to me from John Johnton, Esq., of Geneva, New York, who is one of the oldest and most experienced feeders, as well as grain farmers in the United States.

"I generally buy my sheep in October Then I have good pasture to put them on, and they gain a good deal before winter sets in I have generally had to put them in the yards about the first of December. For the last twenty-three years I have fed straw the first two or two and a half months, a pound of oil cake, meal or grain to each sheep. When I commonce feeding hay, if it is good, early cut clover. I generally reduce the quantity of meal or grain onecommonce feeding hay, if it is good, early cut clover. I generally reduce the quantity of meal or grain one-half; but that depends on the condition of the sheep. If they are not pretty fat, I continue the full feed of meal or grain with their clover, and on both they fatten wonderfully fast. This year (1862-3) I fed buck wheat, a pound to each per day, haif in the morning and half at 4 o'clock, P. M., with wheat and barley straw. I found the sheep gained a title over a pound each per week. It was never profitable for me to sommense fattening lean sheep or very fat ones sheep should be tolerably foir mutt in when yarded I keep their yards and sheds thoroughy littered with

Mr. Johnson by under-draining and by the manure obtained by fattening sheep, has almost created one of the fluest farms in New York. I think his land is not adapted to turnips.—Practical Shepherd.



The Dairy.

The care of milk and the manufacture of butter and cheese, constitute an important part of indoor farm management. These products differ greatly in quality and are so affected in value by the modes in which they are prepared for market, that it becomes highly necessary for all engaged in their production to escertain if possible, and to put in constant practice, the best methods of doing dairy work. The exfreme sensitiveness of milk to all external influences, renders it needful to secure thorough cleanliness and sweetness in the room, pails, pans, and strainers, while the delicacy of the processes by which it is transformed into butter and cheese, renders the most vigilant attention indispensible. On large farms where a dairy house furnished with every convenience can be had, the task is much easier of accomplishment, and there is little excuse for not turning ont a good article; but the mass of our farmers are straitened in building accommodation of all sorts, and dairying, like the other operations carried on must be performed under difficulties. Still, despite this very general drawback, there is a possibility of no little improvement being effected. With that improvement, would come an advance of price for dairy products, which would greatly increase the profits of many a farm. Quality is everything in such articles as butter and cheese. We forbear farther enlargement on this subject at present, in order to save space for some selections which will amply repay careful perusal.

Dairy Farming.

We urge upon dairy farmers the importance of their bestowing more attention upon the feeding and general comfort of the cows and of the stock reared upon the farm, as by improved management of the dairy stock the farm may be rendered a source of profit, and not of loss, and from those farms from which a small profit was realized, a larger profit may be secured.

The yield of rich milk being chiefly dependent upon the quality and amount of food caten by the cows, the dairy farmer should calmly consider the best methods whereby an increased amount of nutritious food is to be secured, and at an outlay which will

most suitable time for applying any of these fertilizers is in autumn. The manure can be put on the field previous to commencing harvest operations. The cows should be changed to another field for not less than two weeks. Fertilizers, such as Peruvian guano, sulphate of ammonia, and nitrate of soda, should be sulphate of ammonia, and nitrate of soda, should be applied to the pasture early in spring, but not until the grass has commenced to grow. April will generally prove a suitable period. Of the fertilizers, the most permanent in its effects is bone-dust; next to it are phosphatic guanos, and as these are generally to be had at lower rates than bone-dust, they are to be preferred. The quantities of any one of the enumerated fertilizers to apply, must be regulated by circumstances. A mixture composed of more than one manure should be preferred. In Cheshire, bones have generally produced such decided changes in the growth of pastures that bone-dust has acquired a high position as a fertilizer for dairy farms. The phosphoric acid removed in the milk, and in the bones of the animals reared upon the lands, is thus restored to the soil. It is now considered essential in the best dairy districts to manure with bones or with fertilizers dairy districts to manure with bones or with fertilizers prepared from bones. It will generally prove a satisfactory method of top-dressing to apply bones or phosphatic guano in autumn, and afterwards to supplement this with a small quantity of nitrate of sodar Bernviller, generally specific solutions.

plement this with a small quantity of nitrate of soda or Peruvian gnano in spring.
Good pastures should not be ploughed except there are imperative reasons for breaking them up for a course of cropping; but had pastures can be broken up with advantage, provided means are adopted to improve the condition of the soil by draining, deeper entitivation and liberal manuring during the period the land is under corn and root crops. The re-seeding with superior grasses can be best effected by sowing out without a grain crop.

with superior grasses can be best effected by sowing ont without a grain crop.

Pastures should not be overstocked. Sometimes this mistake may be made. To meet such a contingency, provision should be made to supplement the pastures with green forage, such as rye, clover, [and Indian corn.] Nothing is more common than to stock up to the utmost limit the pastures will furnish full keep for. If the season proves a good grazing one, the cows continue in fair condition, and yield an abundant supply of milk. When the season proves somewhat adverse to the growth of grass, owing to an excess of moisture with a low temperature, the consequence is the cows are half starved, they lose condition, and while the flow of milk is diminished it contains less butter or casein. Nothing is to be gained by overstocking, except by the experience a gained by overstocking, except by the experience a sounder practice is resolved upon. Not frequently, however, the practice continues from some vague impression that the ensuing year will prove a more

impression that the ensuring year with provide favourable one for grass.

Were the sound principle more generally acted upon—the largest return of produce from each cow—dairy farming would prove much more profitable than it is at present.—North British Agriculturist.

Cheese Making.

Ar the meeting of the Massachusetts Board of Agriculture held at Springfield lately, S. L. Goodale, the Secretary, read a valuable paper on cheese-making, the following brief notes of which we take from an exchapge :-

" He said that a milch cow furnished the best and cheapest method of getting human food. The feed necessary to make a pound of meat will make at least 25 pounds of milk. Eight and a half pounds of milk on an average make .. Dound of cheese. In Herkimer county, N. Y., the cows average 600 pounds of cheese per annum. A cow that will make less than her dressed weight of cheese in Scotland is sent to the nutcher. England is our great cheese market, for the English eat more cheese than we; 200,000 cows are kept in the single county of Cheshire. Herkimer county, N. Y., first taught the English to use American cheese, and now we ship there more than forty million pounds a-year. Cheese factories are modern but labor-saving inventions. They require the milk of at least 500 cows to make them profitable, and a force of five or six persons to do the work. There are more than thirty such factories in Oneida county, N. Y., and the cheese commands a higher price than leave a profit after the money expended has been that made in families. Carrying milk from one to five miles in a waggon improves it for cheese as much as it hurts it for butter. There is little difference in the labor for a pound of cheese or a pound of butter. Gime, lime compost, farm-yard manure, bone-dust, fermented make two and a half pounds of the former. Hay bones, phosphatic guano and superphosphate. The cheese is less valuable than that made from grass."

Mr. Pratt's Dairy Farm.

COLONEL PRATT, a very successful dairy farmer at Prattsville, Green County, in the State of New York, is in the habit of sending annually to the Country Gentleman, a statement of the product of his farm. He has just done so for the year 1863. Colonel Pratt's farm contains 365 acres, and the average number of cows during the dairying season of eight months was eighty. The following is Colonel Pratt's statement for 1863 :--

Pounds.

Gallons.

	1 Out	us.	Gailons,
Whole product,	362,87	1 40	5,731
Average per cow,	4,53	5	'504 I
Average per day,	1,34	3	
Average per day for each			i.
com.	1	16 7-10	2 1-10
Greatest average in one day			
per cow,	2	25.2	3.2
RUTTE	R.		- 1
Whole product, -		. 17 97	6 pounds.
Average per cow,			4.7 do.
Average per day,		. 6	6.5 do.
Average per day for each co	и	. 1	3.3 ounces
Av ge milk to 1 lb. batter, 20	. i.10 1	bs or I	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
and Be ming to 1 to butter, at	, 1-X0 I	04. OI I	0 3-10 (113.
rork.			1
Amount made,		10.38	9 pounds.
Average pork for each cow n	nilked.	12	9 do.
• •	•		1
SALES			1
Butter, at 27c. per 1b, -	•		\$4,853.52
Pork	•		571.39
Calves,	•		16.00
Poultry			110 04
Deacon skins,	-		60.00
,			
			\$5,620,85
Penanca at reading form a	*	annile.	**,***
Expenses of working farm, or	ver pro	engani	1
of same, not enumerated al ing \$700 for interest on in	00ve, 1	mi oc	i
\$10,000 in farm and stock,	rvesum	che oi	1 010 45
Sto,000 in larm and stock,	-		1,916.45
Net profit,	-		\$3,701.40
Amount realized for each cow			
For butter sold.			200.00
For Dutter Sold,	-	•	\$60.66
For Pork sold,	-		7.14
			\$67.80
OTHER PRO	DUCTS.		

1,107 bus. of Corn in the ear from 8 1-4 acres. 1,500 bus. of Carrots and Beets.

139 loads of Pumpkins. 80 tons of Hay. 100 bus. of Oats.

\$54.16 value of Honey sold and on hand. \$74.00 value of new Hives of Bees' increase.

We would be very glad to receive a few such state ments from some of our Canadian friends.

Feed Cows Well.

The farmers in the dairy districts make a great mistake in not feeding their cows with richer food. If it requires twenty-five pounds of hay per day to keep a cow in a condition in which she can neither lay on fat nor give milk, it is evident that the butter and cheese which we get is derived from the food she cats over and above this twenty-five pounds necessary to keep her in a stationary condition. To feed only twenty-five pounds would manifestly be absurd. Twenty-five pounds would manifestly be absurd. Twenty-five pounds of hay are required to keep the cow alone going, and if we feed another five pounds all the milk is derived from the five pounds extra feed. You feed thirty-pounds of hay per day, but it is only the five pounds that produces milk. Now do you not think it would be better to feed another extra five pounds, and get as much milk for it as you have from the first thirty pounds? But, you say, the cow's stomach will only hold thirty pounds of hay or straw. Very well, then take out a few pounds and supply the place with some richer food, such as pea or bean meal, mixed with a little corn meal or shorts. In this way you can get the cow to cat the other extra five pounds. way you can get the cow to cat the other extra five pounds. You will get more and richer milk, and more and better manure. When the cows have plenty of food their milk is richer in butter and cream, or ourd, in the fall of the year than at any other season. Dr. Voelcker found the milk of a dairy in August contained 3 1-2 per cent. of butter and 3 of curd. In November the milk of the same cows contained 6 per cent. of butter and 5 1-2 of curd. One gallon of the November milk would make nearly twice as much saleable cheese as a gallon of the August milk. Furner.

The great aim of dairy farmers should be, therefore, to provide the cows with a sufficiency of good food at this season of the year. I have never tried it, but it strikes me that oats cut while green would make ex-cellent fodder for mileh cows. I know they are ex-cellent for horses, and if a few peas are sown with the oats it is quite an improvement.—Joseph Harris, of Rochester.

NOTE BY EDITOR "CANADA FARMER."- Oats, Peas, and Tares mixed are better still. We have tried it.

TURNITY TASTE IN MILE.—The unpleasant faste given to milk and butter when the cows are fed upon turnips, is effectually corrected by the use of a little common nitre, or saltpetre, but the common mode of using this preventive is not the best. It has been usual to put a lump of saltpetre into the milk-pail, but it sometimes happens that the nitre remains undissolved, and the milk retains the objectionable flavor. Instead of this, make a strong solution of saltpetre—say a pint of boiling water upon an ounce of saltpetre; when thorougly dissolved, put it in a bottle and stand in a cool place. Before milking, put into the milk pail a spoonful of this solution, or more, according to the quantity of milk expected, and the turnip flavor will be entirely destroyed. It also, in a great degree, destroys the bad flavor given to butter by the yellow crowsfoot or buttercup. This has been tried in our family, and found serviceable.—Country given to milk and butter when the cows are fed upon tried in our family, and found serviceable.—Country

AYESHIEE Cows.—Probably no breed of cattle, unless we except the Jerseys, is superior to Ayeshires as milkers; but the obstacles in the way of making up a dairy of Ayeshires are several: First, being blood stock and bred at considerable expense, they cost too much to compete with well selected native cows, which can be picked up at half the price, and will give nearly or quite as much milk. Second, after their milking days are over they will not lay on flesh for beer, ke grade short horns, and consequently cannot be useded to so good profit. Where feed is plenty, as it is in all parts of Ohio, we suppose that an infusion of short horn blood, is the best in all respects for diary purposes, taking into account the beef to be made from the old cows when they are no longer fit for the days. But the cheanest and most cost too much to compete with well selected native beer to be made from the old cows when they are no longer fit for the dairy. But the cheapest and most popular mode of making up a herd of dairy cows, is to select natives, which had proved themselves to be good milkers. The idea of breeding dairy stock is little thought of. Cows which prove good, are kept for the dairy, and the rest turned over to the butcher.

—Ohii Cultivator.

CLEANING MILE VESSELS .- A correspondent of the Cincinnati Guzette says there is no product of the farm that pre ents so much difference as butter. This arises that pre ents so much difference as butter. This arises chiefly from using vessels for holding milk, and utensils in making the butter, which are soured. Milk has a peculiar acid, very easily formed, which entirely takes away that rich, sweet flavor belonging to good butter. A very little soured milk or cream on vessels rapidly generates enough acid to take it away. To avoid this, great care is requisite. Cleanliness only is not sufficient, in having the vessels well washed, but they must be carefully washed in boiling hot water, and should be boiled in it also. But as cream is very ant to stick, even in good washing, when the water, and should be boiled in it also. But as cream is very apt to stick, even in good washing, when the vessels are boiled in water, come pearlash or soda should be put in it, which destroys any acidity that may be about the vessels. They should then be sunned. I have known some good butter-makers who dispensed with the sunning when seda was used, but better recommended. both are recommended.

TURNING HEAVY CHEESES has always been a severe tax upon the strength of most dairy women. I saw a device for accomplishing this work in a safe and casy manner, in the cheese factory of Mr. Cox, Mesopotamia. In his curing room, Mr. Cox uses, as supports for his cheese, two stringers of scantling, some ten inches apart; on these scantling stand the cheese, and the property of the cheese of a size cach upon the inverted cover of a cheese of a size a trifle larger than the size of the cheese. When the attendant goes to turn the cheese, she takes another cover of the same size, and puts it on the top of the cheese to be turned, then, with one hand on top of this cover and the other hand at the bottom cover, flore the cheese over with only the strength of a this cover and the other hand at the bottom cover, slops the cheese over, with only the strength of a child, since, when the cheese is tilted up a little to one side, the opposite side balances down between the two scantling, and the cheese goes over easily. Another and greater advantage of this method of turning cheese, is that there is no danger of bruising or breaking the corners in turning, as they are perfectly protected by the rim of the cover. This mode of handling is equally applicable to cheese on shelves, but in that case you do not have the advantage of self-balancing, the same as on stringers.—One Burner.

Churning it. Winter.—The frequent inquiries for a sure method of always churning butter as quickly and of producing as good an article in winter as in summer, we cannot well answer, for the substantial reason that we knew of no such method. Good mixed feed for the cows, keeping the milk and cream from freezing, and bringing the cream to a proper temperature before beginning to churn, comprehend about all we can say on the subject. A lady at Locust Valley, Queen's County, New York, communicates to the American Agriculturist her method of making butter inwinter, which she thinks far surpasses any other plan which she is acquainted with. She writes that "by this method the full quantity of butter is obtained, the quality is equal to that of grass butter, the buttermilk is rich the full quantity of butter is obtained, the quality is equal to that of grass butter, the buttermilk is rich and remains sweet for drinking or culinary purposes, such as making rice puddings, and the process is certain and simple, and attended with little trouble. It is as follows: The cream is skimmed each day, and placed at once in a kettle, and the kettle put into hot water (to prevent scorching), and put over the fire. The cream is allowed to scald, without boiling. It is then put into a vessel and set aside; each day's cream being in like manner scalded, and added to the mass, until enough for a churning is obtained. The churning is commenced immediately after adding the last day's cream, which brings the whole to a proper temperature, without thinning by the addition of per temperature, without thinning by the addition of hot water."

Canadian Farm Architecture.

ARCHITECTURE is perh s a complimentary word when used in reference to most of the structures which have been erected upon the farms of Canada. There are not wanting here and there excellent farm residences which, in accommodation, form, proportion, picturesqueness, colour, light and shade, are all that can be desired; together with out-buildings in admirable keeping, and marked by convenience. spaciousness, neatness. But, as might be expected in a comparatively new country, it is the few, and not the many, of which this can be said; while the style of building in general is such as leaves vast room for improvement. A well-planned, harmonious, agreeable-looking edifice costs no more than an unsightly, ill-planned one; nay, there are often large sums expended in unsuitable and tawdry ornament, which would have been much better turned to useful account. It is rather a matter of study before building than additional cost in building which makes the difference between the pleasing and ungainly in architecture. Want of a true appreciation of the beautiful has, no doubt, much to do with the evil under consideration. But taste needs educating, and the misfortune is that so many set themselves up as educators of it who have yet to learn its first principles themselves. As to the result, many of our more costly buildings consist of monotonous, commonplace work, loaded with attempts at decoration and ornament; while the most important and self-evident rules of architecture are often glaringly violated.

To gnard against these and other mistakes, those who intend to build should go about the matter deliberately, and avail themselves of all accessible helps, such as consultation with those who have had experience in the matter, study of one or more of the many excelthe matter, study of one or more of the many excel-lent and cheap works on the subject of rural archi-tecture, inspection of buildings already erected, &c. In most cases, if the contemplated structure be of considerable size and cost, it will be well to call in considerable size and cost, it will be well to call in the aid of a thoroughly-competent architect. If he be properly qualified for his business, his fees for the clevation, plans, specifications, and, if need be, superintendence, will be more than saved in the avoidance of unnecessary expense, to say nothing of the satisfaction resulting from having a job done that will bear criticism. The maxims of a correct teste are not arbitrary. Wherever there is truthfulness, harmony, naturalness in architecture, universal admiration and pleasure will be excited.

Let no one dismiss this subject with the reflection that since his means are small, and the buildings he thinks of erecting humble in character, and limited in accommodation, all that has been said is inapplicable to him. A log-house may be built tastefully. A wood-shed, poultry-house, piggery, or dog-kennel

A wood-shed, poultry-house, piggery, or dog-kennel even, may be either an ornament or an eye-sore.

By the publication of occasional articles, engravings, plaus, &c., we hope to do somewhat toward improving the style of rural architecture in Canada.

Corresnoudence.

COMMUNICATIONS INVITED In our Prospectus, we state it to be one of the main objects of this journal "to afford the Farmers of Canada an ever-open medium for addressing their brother Agriculturists throughout the Province," and we earnestly desire to make this a leading feature of the Canada FARMER. In order to be enabled to do so, our readers must betake themselves to the pen, and send us jottings on all manner of subjects connected with farm experience and rural life. Topics are plentiful, and there are thousands of practical, experienced, and observant men in Canada, who are quite capable of discussing them in an interesting and instructive manner. Various binderances, however, are apt to deter those who are every way fit for the task. Modesty, fear of criticism. horror of appearing in print, conscious defects of etyle, grammar, spelling or handwriting, a spirit of procrastination-these, and the like, prevent many who ought to write, from doing so. We beg our readers to lay aside all excuses, and do their best. Note down whatever you think likely to be useful to your fellow-cultivators, give us your facts, figures, experiences, observations and suggestions—never mind if the style be homely, the grammar defective, the spelling incorrect, or the writing ungraceful. It will be our eare to whip into shape whatever may need improvement. We do not, of course, promise to publish whatever may come to hand. Several communications may be sent on the same topic, or a contribution may be of value, but may require abbreviating or condensing. Our cor-respondents must not conclude that they have wasted their labour, even though they may not recognize their productions in our columns. They may indicate subjects, supply ideas, furnish facts and suggestions, which may form material for editorial articles, and in that shape be helpful and valuable in promoting that end for which, we trust, all our readers will earnestly co-operate with us, viz the advancement of Canadian Agriculture.

LEACHED ASHES .- A correspondent in the County of Oxford wishes to know what is the chemical analysis and manurial value of wood ashes after lixiviation or leaching, and whether it will pay to haul a hundred loads from an ashery eight miles distant from his farm? Ashes consist of salts, such as silicates, phosphates. sulphates and carbonates. The carbonates and sulphates of potash and soda, as found in ashes, are soluble, and are dissolved out by the leaching process. The silicates, phosphates and carbonates of lime, magnesia, iron, and manganese, are insoluble. and thus remain in leached ashes. A portion also of silicate of potash remains undissolved. Far the larger part of leached ashes is carbonate of lime. The next is phosphate of lime or hone dust. The quantity of this constituent varies much in different kinds of timber. The ashes of oak contain only about 6 per cent. of phosphate, while those of the beech have been found to yield as much as 20 per cent. of their whole weight of this valuable fertilizer. The askes of the fir and the pine contain from 10 to 15 per cent. of phosphate. A cord of leached wood askes (or 100 bushels) contains 50 to 60 lbs. of potash. In one cord of leached ashes, dry weight, there are, according to Dana:

117 lbs. Phosphoric acid Silex -Oxide of iron 17 · · 51 · · Oxide of manganese Magnesia 119 " Carbonate of lime 3072 "

in more concentrated form. But there are plenty of Cauadian farmers within half a mile or a mile of an ashery who could not do better than devote their spare time to hauling and applying leached ashes to their land. On this general subject, and especially on such points as the value of leached ashes compared with barn-yard manure the description of soil and crop to which they are best adapted, and the quantity to be applied per acre, we shall be glad to receive communications from our readers who have had ex-perience in these directions.

DRAINING .- J. B., of Tyrconnel, writes :- "With your permission, if nothing turns out to prevent me, it is my intention to write a piece on draining by-and-by, as I have been doing a little at it this last fall, and may I ask you if you would be so good as to give it a touch of your pen to correct my mis-takes and fix it in a reasonable shape to come before the public, should you find it worthy a place in your paper?" Certainly: with the greatest of pleasure. Tell us all about your drain-laying, both with wood and tile, and whatever seems likely to be a stimulus or a guide to others, we shall gladly insert.

"OUTSIDE CONTRIBUTORS."-W. T. G. asks :-" Will you receive articles on Horticultural subjects, including Pomology from outside contributors?" Ans. Yes, very gladly.

W. S. Woburn. Your letter on "Planting Apple Trees" will appear in our next.

The Canada Larmer.

TORONTO, UPPER CANADA, JANUARY 15, 1864.

TO THE FARMERS OF CANADA!

In presenting the first number of THE CANADA FARMER to the Agriculturists of Canada, THE PUB-LISHER desires to say a very few words by way of introduction.

The publication of this Journal has been commensed under the earnest conviction that the fature prosperity of Canada must rest on the condition of her Agriculture; and that every Canadian, whatever his occupation, is personally and deeply interested in having the Agricultural capabilities of our country fully understood, and the system of husbandry brought to the highest possible point of excellence. THE PUBLISHER is fully convinced that the circulation of a first-class Agricultural Journal in Canada would tend greatly to promote these ends; and he is resolved that THE CANADA FARMER shall be such a Journal.

Time FARMER will be exclusively devoted to the advancement of the Agricultural interest. All party political questions will be stadiously avoided. The desire is to establish a Journal which Farmers and Horticulturists of all parties and creeds can support with confidence; and through which they can send their views to their brother Agriculturists throughout the Province. In the discussion of Agricultural questions, a candid and conciliatory tone will be aimed at; and while the aids of science will be systematically invoked, the great end constantly kept in view will be to gather up the matured opinions of practical men on practical matters.

No labour and no reasonable expenditure will be wanting to make the paper a worthy representative

SMITH, a highly qualified professional man from the schools of Edinburgh, presides over the Veterinary department. Mr. Surru, a successful and rising Architect of Toronto, will make important contributions to the Architectural department. Artists have been engaged to prepare illustrations; and a number of Reporters, Contributors, and Correspondents have promised their valuable aid in making THE CANADA FARMER a true reflex of the best Agricultural minds of our country.

It is gratifying to THE PUBLISHER that the Provincial Board of Agriculture heartily sustain the enterprise. He has purchased from the Board the copyright and good-will of the Canadian Agriculturist, their official organ—it is now merged in THE CANADA FARMER, and the official announcements of the Board will hereafter be sent to the public through these columns.

It is for the Agriculturists of Canada to say whether THE CANADA FARMER shall receive a fair trial at their hands. If the paper is to be made what it ought to be, it must be generously, unitedly sustained. It is the only Agricultural Journal published in Upper Canada-and a very little exertion on the part of those interested will place it in a position of unsurpassed efficiency.

The Farming Interest of Canada.

In commencing our labors as the special advocate of the farming interest of Canada, it may not be without advantage to show the enormous extent of the agricultural productions of our country, and the commanding position occupied by the Agriculturist in the industrial progress of the Province. The official census taken in January, 1861, fortunately furnishes reliable data for prriving at the agricultural condition of the country, and an official Report from the Bureau of Agriculture, issued in 1863, provides us with estimates of two years' later date. From these returns, it appears that the number of persons in actual occupation of land in Upper Canada, in the year 1860, was not less than 131,983, and in Lower Canada, 105,671. The quantity of land held was as follows :-

Persons holding in U. Canada, L. Canada, 6,822 10 acres and under - -4.424 10 acres to 20 - - - -2,675 3,186 20 acres to 50 - - -26,630 20,074 50 acres to 100 - - - -64,891 44.047 100 acres to 200 - - - -28,386 24,739 Above 200 acres - - -5.027 6,809

Total occupiers - - 131,983 105,671 It thus appears that there were, three years ago,

not fewer than 237,654 persons in Canada who cultivated their own land; and if we add the army of form servants, choppers, corpenters, blacksmiths, waggon-makers, harness-makers, &c., directly employed on farm-work, it will be seen at once how vast a proportion of the half-million of male adults in Canada are directly employed in the cultivation of the seil.

Then as to the capital employed. The estimated cash value of the farms and farming implements was, in January, 1861, as follows :-

In Upper Canada - - - - \$ 306,442,662 In Lower Canada - - - -178,870,271

which the live stock of the country is increasing in number and value can readily be seen by a compari-on of the ecosus returns of 1851 and 1861.

But perhaps a more satisfactory idea of the agricul-tural industry of the Province can be gained from a atement of the annual product of our farms. In the Year 1860 the crop was as follows :-

Wheat, bushels, 21,620,425 L. Canada 2,651,354 2,281,674 844,192 2,821,962 973,181 9,601,396 21,220,874 5,103,636 1,817,373 12,250,173 38,772,170 2,498,662 2,591,151 Barley, do. Rye, Peas, do. 2,648,777 17,551,296 Oats, do. Buckwheat,do. 1,248,637 2,256,290 15,325,920 1,250,025 331,861 12,770,471 Ind. Corn, do. Potatoes, do. 28,096,391 Turnips, do. Man. Wurz. do. Carrots, do. 18,206,959 546,971 1,905,598 892,431 207,256 293,067 19,099,393 751,227 2,198,665 Beans, do. Clover and Tim-49,113 21,384 70,527 othy Seeds, bsh. Hay, tons -Hops, do. -Maplo Sugar, lbs. Cider, gallons -Wool, lbs. --61,818 861,844 247,052 689,977 53,387 1.551,821 300,439 9,325,147 21,011 1.967,388 15,906,949 16,295,752 1,588,842 6,970,605 - 1,567,831 - 3,659,766 - 26,828,264 - 2,687,172 5,627,154 Butter, lbs. - Cheese, lbs. -42,735,213

Flax and Hemp, 1,225,931 2,201,761 975,827 the total value of these products of the farm in 1860 was close upon one hundred millions of deliars! And if we add the increase of that same year on the live stock, the improvements made on old farms, and the new lands brought into cultivation, a pretty good cetimate may be formed of the highly satisfactory condition of the farming interest in Canada.

And then—the work is but begun. The total num-

3,373,469

686,297

ber of acres that have passed from the Government

into private hands is— In Upper Canada - - - - 13,354,907 - - - - 10,375,418 In Lower Canada

Total acres sold 23,790,325

Of this, there are in cultivation, acres:—
In Upper Canada - - 6,051,619
In Lower Canada - - 4,804,235 10,855,854

Leaving yet wild - - - 12,874,471

Not one-half of the land already in private hands, therefore, is yet cultivated, to say nothing of the many millions of wild lands still undisposed of by Government. The war on the wilderness has but begun, and assuredly the prospects before our agriculturists is encouraging enough, and the field of exertion wide enough to stimulate the best and most ambitious among us to active and persevering exer-tion for the advancement of this greatest interest of

Our Pedigree.

THE first Agricultural Journal published in Upper Canada was, we believe, The Brilish American Cultivator, started by the late Mr. W. G. Edmundson in the year 1842, and printed for some years at THE GLOBE office. It was published up to the year 1818, when it was incorporated with a paper that had been started the previous year by Mr. Wm. McDougall and Mr. Charles Lindsey. The title then became The Agriculturist and Canadian Journal, and the proprictors were Messrs. Edmundson and McDougall.

In 1849, Mr. Edmundson ceased his connection with the paper, and it was continued by Mr. McDougall and Mr. (now Professor) Buckland for about eight years, under the title of The Canadian Agriculturist. The Board of Agriculture used this journal for the publication of their transactions; and Mr. McDougall desiring to retire from the enterprise in 1857, the Board became the proprietors and publishers of the paper. The journal has been in their hands over since, under the editorial conduct of Mr. Hugh C. Thomson, Secretary of the Board, and Professor Buckland.

The proprietor of The Canada Farmer having purchased from the Board of Agriculture the copyright and good-will of The Canadian Agriculturist, that paper has become merged in this journal. The CANADA FARMER is now the only Agricultural Journal in Upper Canada, and it has the cordial support of the Evard of Agriculture. The official announcements of the Board will be sent to the public through our columns.

No Postage on The Canada Farmer.

Br the 6th clause of the 13th section of the Post-Office Act, it is provided that "periodicals printed and published in this Province other than News-"papers, when specially devoted to Religious Edu-"eation, to General Education, to Agriculture, or to "Temperance, or to any branch of Science, and ad-"dressed directly from the office of publication, shall " he transmitted from the Post-Office where mailed to "any other Post-Office in this Province free of "postage." Under the terms of this section The CANADA FARMER will pass tree through the mails.

The Post-Office department has added to the clause a regulation that journals passing free of postage shall not publish any advertisements which do not relate to the subject to which they are devoted. We regret that our journal should be thus deprived of a large source of income, the proceeds of which would have been spent for the benefit of Agriculture, but the rule of the department it seems is imperative, and we have therefore been compelled to keep out a very large number of general advertisements that were sent in for publication in The Farmer.

THE "CANADIAN AGRICULTURIST."

The Editors of this late periodical desire to tender an apology to their readers for the great delay in the issuing of the last number. It was owing partly to negotiations connected with the transfer of the copyright of the paper to the proprietor of the CANADA FARMER, and still more to an accident that befel the press on which the paper has been printed, entirely ready for working off.

ASSOCIATION WILL DO NOT THE ANNUAL MEETING OF the Fruit Growers Association will be held at the Mechanics' Institute Hamilton, on Wednesday, the 20th day of January, 1864, at two o'clock p.m. Members are requested to bring samples of fruit for exhibition.

THE TOBONTO GARDENERS' IMPROVEMENT SO-CIETY will hold its first Annual Meeting at the Board of Agriculture Rooms, Agricultural Hall, on Monday evening, the 18th inst., at half-past seven o'clock, when the Directors will submit their Annual Report, and Professor Buckland will deliver an Address on the Relations of Science to Horticulture. All interested in Horticultural pursuits are respectfully invited to attend.

Fat Shehr from Canada.—Robert Burrows, of Winter Hill, Medford, exhibited in this city a few days since, forly long-wooled sheep, which he purchased near Guelph, C. W. They were from a year to three years old last spring. Some were of the Leicester breed, some Cotswold, and some a cross of the Leicester and Colswold. They were a very fine lotestimated by some to weigh 200 lbs. each. The owner refused an offer for them of nine cents per pound, live weight.—Boston Cultivator, January 2.

The Quebec Agricultural Society has recently brought out from England the Short-horn bull, "Sweetmeat," roan, calved in 1861; bred by Mr. Robinson, of Clifton Pastures, England; got by Duke of Leinster, (17724)—dam Sweetheart 2d by Earl of Dublin, (10178) &c., being a direct descendant of the famous cow "sylph." Also the thorough-bred horse "Canwell," by Stockwell out of May Bell; bred by Lord Northport. By last accounts from England, Stockwell was standing for £100 a mare.

IMPORTED CLYDESDALE STALLION .- A fine stallion has been recently imported from Scotland by Mr. Andrew Harvie, who resides in the neighborhood of Galt. Mr. Harvie bought him last summer, from Wm. Kirkwood, Harvie bought him last summer, from Wm. Kirkwood, Esq., of Shankston farm. Patna, Ayrshire, Scotland, after a thorough inspection of some of the finest specimens of horse flesh to be found in that or adjoining districts. He is of the Clydesdale breed, was got by Sir Charles Napier, who was purchased for the Australian market at a handsome price, his dam being a superior brood mare in Mr. Kirkwood's possession. His helg: it is 16 hands 1 inch—he is only 3 years old. His colour is dark brown, slightly dappled, and he possesses extraordinary bone, powerful muscle, and good action. good action.

LECTURES ON AGRICULTURE AND THE VETERINARY Ant.—This course, under the auspices of the Board of Agriculture and University College, will commence of Agriculture and University College, will commence January 21st. 186t, and will be completed in four or five weeks. The subjects embraced will be the leading facts and doctrines of Chemistry, Geology, Botany, and Meteorology, in their relation to the Science and Practice of Agriculture, in which Professor Buckland will receive important assistance from the respective will receive important assistance from the respective Professors of these departments of Science in the Provincial University. Mr. Smith, the able Veterinary Surgeon to the Board of Agriculture, will treat on the anatomy, physiology, and diseases of farm animals, and give practical instructions in dissecting.

This course, like that of last winter, will be specially adapted to the wants of young men practically engaged in the work of the farm, with a view of eliciting a spirit of enquiry, and the love of knowledge, in relation to their every day pursuits: a principal object being to put them in a way of observing and studying for themselves.

ing and studying for themselves.

The course will be open to all, free of charge; so that the only expense, except for a few text works, would be board and lodging for a few weeks. Further particulars may be obtained by addressing Professor Buckland, University College, Toronto.

Mr. Georgi Miller's Sale of Thorough-bred STOCK .- On the 17th ult., Mr. George Miller, of Markham, had a sale by auction of his surplus stock, and a number of animals were disposed of at very reasonable prices. Mr. W. B. Telfer, of Elora, carried off a short-horn yearling Bull for \$56, and a Bull Calf for \$50. Mr. Robert Calicot, of Tyrone, purchased a Short Horn Bull Calf for \$80. Mr. James Somerville, of Vaughan, got a Short Horn Bull Calf for \$71. Mr. J. J. Davidson, of Ashburn, bought a three-year old Durham Heifer for \$84. Mr. John Thomson, of Whitby, got another for \$69. Mr. William Weld another for \$78. and a third for \$1313. Mr. Weld also got an Ayrshire by which it has been kept back a fortnight after being Rull Calf for \$28, and a Yearling Ayrshire Heifer for \$50. Mr. G. Story, of Brougham, carried of an Ayrshire Yearling Bull for \$55, and Mr. Robert Miller, of Brougham, a Cow of the same breed for \$20. In the Galloways, Mr. Wm. Hood, of Guelph, picked up a Bull Calf for \$70, a three-year old Heifer for \$80, a Yearling Heifer for \$523. Mr. George Sheppard, of Thornhill, bought a Galloway Bull Calf for \$42, and a three-year old Heifer for \$421; Mr. Alex. A. Brodle, of Unbridge, a three-year old Galloway Helfer for \$13; and Mr. R. L. Denison, of Toronto, a Galloway Yearling Heifer for \$41, and a three-year old for \$45.

A number of Grade Cows and other stock, went off at fair prices.

"LADIES' COLUMN" AND "BOYS' CORNER."-" Frank Fuirfield" has our best thanks for his lively letter. He will see that we have anticipated his wishes to some extent in the Household Department. Our Correspondent says :-

Correspondent says:—

"A certain Gallic King once said, 'I rule France, and the Queen rules me!' Now, without saying we 'men' are all in the delectable position of his French Majesty, it must, nevertheless, be admitted that the ladies are not without great influence; many of them are admirable gardeners and florists; and many a beautiful residence in Canada owes its perfection to their superintendence and care. Then the boys—they are to be the men of twenty to thirty years hence—if they are to be imbued with principles of improvement and progress, and taught physical as well as moral beauty, it is all-important to interest them as early as possible. If, therefore, you wish your little journal speedily to become 'Familiar in our mouth as Household Words' in every family throughout the country, do not overlook devoting a space to matter interesting to these important sections of the community.

tions of the community.

"The lighter department, in which really much useful advice and suggestion, much 'fact and fancy,' may be contained, occasionally prettily illustrated, need not occupy any inordinate space; and funny little things suitable for the boys, likely to attract their attention to graver things, bye-and-bye, would follow. And if it be true that even

"A little nonscuse now and then "Is relished by the wise; men,"

how much more likely by the boys and the little misses, not forgetting their mothers and grown up sisters. Therefore, provide mental food suitable for all. Papa may, in the first instance, send in his subscription, but if not reminded by those about him he may happen to forget to renew it at the year's end. Only interest all his household and they won't let him.

Horticultural Department.

In assuming the duty of conducting this Department, we hope to be able to make it indispensable to every one who cultivates a rood of ground in Canada, and to so fill these columns that our readers shall turn to them with the assurance that they are faithfully devoted to their interests, and that here they will be sure of finding the latest and most reliable information upon all subjects affecting Canadian Horticulture. If the Ladies desire to plant a Flower Garden, we hope to be able to give them valuable hints to aid them in the selection of suitable plants and seeds, and in the best method of growing them, so that there shall be no want of beautiful flowers from earliest Spring to latest Autumn. Is it desired that the Lawn should be set with Ornamental Trees and Flowering Shrubs, we hope to be of service in guiding to the choice of those that are not only desirable for their beauty but for their hardihood and ability to endure the rigor of our climate. In the Fruit Garden also we shall try to make ourselves useful, by showing which are the most luscious and prolific kinds of strawberries, rasberries, currants, grapes, and other fruits, and by giving some practical suggestions as to the best methods of planting and training. And in planting an Orchard we expect to be of essential service, by showing what fruits and which kinds have been found to be hardy and productive, or may be expected to prove so in the several parts of the Province; by giving the results of our own and of others' experience upon the most suitable soils and aspects, the best mode of planting, pruning and cultivating, the kinds to be selected for family supply, or those to be chosen with a view to profit for marketing

Profits of Apple-Growing in Canada.

THE products of horticultural skill have already assumed commercial relations of no inconsiderable magnitude, and the trade in fruit, even now a large business, is increasing in importance with every year. The growing of fruit for market has been found in many parts of the adjoining Republic to be a very profitable employment, and it may not be amiss if we here inquire whether we might not hope to find it equally remunerative. In the examination of this question we will, for the present at least, pass by the finer fruits and consider only the apple. Not that pears, peaches, grapes, strawberries, &c., cannot be grown with profit, but because we are all better acquainted with the raising of apples, and knowing something of what is the usual yield, and for what they will sell, will be able to form an opinion upon the correctness of our estimates. To write about pears and estimate their value at from eight to fifteen dollars per barrel, or about strawberries, and estimate the yield at one hundred bushels per acre, might seem to some as anything but a satisfactory basis for rational calculation.

That there are portions of the Province eminently adapted to the cultivation of the apple is abundantly shewn by the beautiful samples of this fruit that are exhibited every Autumn, and which, on being sent home to the Exhibition of the Royal Horticultural Society, elicited expressions of admiration and surprise. Which those sections are is even now in a good degree indicated by the recent Report of the Fruit Growers' Association of Upper Canada, and their more exact limits will before long be determined by actual experiment The selection of the right locality, one where the climate is such that the trees grow well and bear regularly, and where the oil is adapted to the perfect development of both tree and fruit, is a most essential element of success. Another important element will be the selection of the proper varieties, those that combine in the highest attainable degree attractiveness of appearance, excellence of quality, exemption from injury in transportation, and from decay by keeping, com-

bined with vigor of the tree and early and continued fruitfulness. On these points much might be said, and at some future time we may recur to them, but for the present we must content ourselves with supposing that all these things have been duly considered and judiciously decided.

In submitting the following estimates we are aware that it is impossible to make them strictly accurate, but we believe they are placed so low that no one can be misguided; that, in fact, the experience of the careful cultivator will prove the growing of apples to be much more profitable than we make it to be; but we prefer, if we err, to err on the side of caution, and to base our estimates upon no questionable assumptions. We will therefore suppose that such land as is require; I for a good orchard will bring the large rental of eight dollars per acre per annum. Taking a piece containing twenty acres, it will require to plant it, at forty feet apart each way, six hundred trees. These can be had of reliable nurserymen, of the very best quality, for twenty dollars per hundred. We will put down the cost of planting them at forty dollars, and the cost of keeping the ground thoroughly cultivated at \$150 per annum. The expense for the first year will be :rent of 20 acres, \$160; cost of trees, \$120; planting, \$40; cultivating, \$150; total, \$470; for the second and subsequent years the expense will be, rent and cultivation, \$310. We will suppose that no crop is taken from the ground after it is planted with trees, and that the trees do not yield any fruit for the first five year. At the end of five years we shall have five year. At the end of five years we shall have expende:—first year, \$470; four subsequent years, at \$310 each. \$1,240; total, \$1,710. Taking the sixth and seventh years together, we may expect enough fruit to make the average yield for each year from each tree to be worth twenty-five cents, and that the yield will now begin to increase, so that we may safely estimate the value of the fruit from each tree to be, for the eighth year, fifty cents; for the ninth year, one dollar; for the tenth year, one dollar and fifty cents; and for the eleventh year, two dollars. Should we realize this cery moderate sum from each tree we shall have received at the end of the eleventh year from our orchard the sum of \$3,300. the eleventh year from our orchard the sum of \$3,300, and it will have cost us for the first year \$470, and the subsequent ten years \$3,100, making in the whole \$3,570, leaving only a balance of \$270 against the orchard. Suppose we allow another year's crop, or \$1,200 more, to cover this balance, and any unforescen casualties, errors, or other unestimated expense, then at the end of twelve years we shall have an orchard that has produced enough to repay the first cost of trees, planting and cultivation, and an annual rental of eight dollars per acre. If the orchard should now die would the investment prove a failure? How many farmers make their crops of grain, extending over a period of twelve years, to yield a clear annual rental of eight dollars per acre? An orchard at twelve years from planting is in

truth but at the commencement of its productiveness, and having upon our supposition, been well cultiand having, upon our supposition, been well cultivated, may now be expected to yield for the next twenty years an average annual crop of four barrels to each tree. This fruit is worth, on the tree, not less than fifty cents per barrel, and in some seasons is worth twenty-five or fifty per cent. Force. But we will not increase the estimated value of the crop beyond the sum set down for the twelfth year, and will suppose that the cost of cultivation is now increased to two hundred dollars a year. We shall then be received from this twenty areas a clear annual reputal. to two hundred dollars a year. We shall then be reaping from this twenty acres a clear annual rental of fifty dollars per acre, or the enug little income of ten hundred dollars per annum.

But twenty years is a long time, and perhaps apples will not be worth fifty cents a barrel on the tree during all that period. Perhaps they will not; but do apples sell for any less now than they did twenty years ago? Are you aware that we are each year consuming two hundred and fifty thousand dollars worth of fruit beyond what we produce? and that this excess of consumption over production is steadily increasing? By looking into the trade returns it will be seen that the importation of fruit into Canada for the year 1859 was \$252,000; for 1860, was \$285,000; for 1861, was \$310,000; and for 1862, was \$454,600. During the year 1861 the value of the fruit exported was \$12,258, and in 1862 it was \$18,032, thusshowing that in 1861 we imported more than we exported to the value of over \$297,000, and that in 1862 our importations of fruit exceeded our exportations by over \$436,000. How much of this is fruit that might have

been grown in Canada may be inferred from the fact that of this the amount that came from the United that of this the amount that came from the United States, under the operation of the Reciprocity Treaty, was \$284,500 in 1860, \$309,000 in 1861, and in 1862 \$431,600. There can be no doubt then that we have been consuming in Canada, at a cost to the country that has risen from \$270,000 in 1860, to \$413,000 in 1862, a quantity of fruit that might have been grown by our own farmers. Were we to reduce been grown by our own farmers. Were we to reduce the amount imported for home consumption in 1862 to apples at the prices allowed in the above estimates, it would be equal to 826,000 barrels of apples, requirwould be equal to \$20,000 parters of appress, requiring, at the yield per acre above estimated, six thousand eight hundred and eighty-three acres of apple orchard to meet the present deficiency of production. It is no doubt true that a considerable part of this importation consists of peaches, pears, grapes, &c.; how much, it is not in our power to show; yet we know enough to be certain that we are importing we know enough to be certain that we are importing or home consumption a quantity of apples alone, that will require many hundreds of acres of orchard to be brought into full bearing before our own home wants will be supplied. And when we shall have succeeded in meeting the full measure of the home demand, what an illimitable field stretches beyond! To fruit growing region—that in which the apple can be produced in perfection—is comparatively very small. The apples of Ohio, of the entire West and South-west, will not keep throughout the winter, as do those of Western New York and Canada. The as do those of Western New York and Canada. The whole of the vast Prairie country has been found to be not well adapted to the growing of apples. The fruit dealers of Boston, New York, Philo clobia, Chicago and St. Louis, now look for their surely of long-keeping varieties to a few counties of Vestern New York. Besides all this, away across the Atlantic, the Home Country even now can afford a satisfactory advance upon apples worth a dollar and a half per barrel at our own door. And yet we have made no allowance for increase of population. Are our cities to grow no larger, our villages not to become towns, and our towns cities? The fear, in truth, is not that we shall have too much fruit, but that we not that we shall have too much fruit, but that we shall not be able ever to come up with the demand that has already got so far the start.

But if the price should fall, what then? How much must it fall to make the apple orchard an unprofitable investment? It is not like a fall in most articles of commerce, where a decline of twenty-five per cent. is a very serious affair, and a decline of fifty per cent. Is a very serious affair, and a decline of fifty per cent, involves bankruptcy; but after sustaining a decline of fifty per cent. it will still yield a clear annual rental of twenty dollars per acre. So that in all the con ingencies that seem likely to happen, we find that an apple orchard of good fruit, judiciously selected and carefully cultivated, promises to be a desirable investment. to be a desirable investment.

But it is objected that not many of our farmers can afford to spend three thousand dollars and wait twelve years for their returns. This may, indeed, seem to many to be a formidable difficulty, but it is only in the seeming. Only a very small part of this sum is actually money spent. The land is his own upon which the trees are planted, the horses and implements are his with which it is cultivated. His only real outlay is one hundred and twenty dollars for the trees, and perhaps an extra band on the farm for six months in the year, to cultivate them. He is cultivating twenty acres, against which he writes down for rent \$160, and \$150 for cultivation each year, expecting that at the end of twelve years they will have yielded him a sum equal to the sum total of these amounts in return for the labor he is bestowof these amounts in return for the labor he is bestowing. And who that deserves to be called a farmer is not doing the same continually? He builds a barn at a much larger immediate expense, not expecting the cost to be returned until after years of patient waiting. He purchases choice stock at high prices, looking to the improvement of his herd and flock in coming years for repayment. He lays down draining tile at considerable immediate outlay, hoping to reap it again in larger and better crops to be grown in years to come. In like manner he plants an orchard and waits for the returns. If he seem to wait long, is years to come. In like manner he plants an orchard and waits for the returns. If he seem to wait long, is he not well paid for his waiting? A clear yearly income of ten hundred dollars, from twenty acres, that have already paid back all outlay, is worth how many years of waiting?

THE AGRICULTURAL COLLEGE IN PENNSYLVANIA is now in successful operation. It is situated near the Alleghany Mountains. Four hundred acres of land are connected with it. The college building is immense, costing one hundred thousand dollars. The course is four years, and students are educated for practical and scientific farming.

When to Plant Fruit Trees—Fall or Spring?

The Fruit Growers' Association addressed this inquiry to every Horticultural and Agricultural society in Upper Canada, besides sending it to many gentlemen interested in the culture of fruit. About fifty replies were received, and the committee charged with the preparation of the report, state that not more than one-fourth of them were in favor of fall planting; a few expressed the opinion that the time when is not of as much importance as the manner how. A letter was received from a gentleman who stated that he had for some time been engaged in selling trees, and had made large deliveries, both in the fall and spring; that on going over the ground the following season, he had invariably found on all soils that the trees planted in the spring succeeded best; and states, as the result of his observation, that the spring is the most favorable by at least twelve per cent. Some of the answers received recommend that the trees should be procured in the fall, laid in by the heel during the winter, and planted out in the spring; others recommend the spring for stone fruit, while some again make it to depend upon the soil—preferring the spring if the sc. be clay; on light soils, the fall. We prefer to set out in the spring; for the reason that the frosty winds, so prevalent during the winter, seem to dry up the trees when transplanted in the fall, thereby injuring and sometimes destroying their vitality. There can be no objection to taking up the tree in the fall and laying it in by the heel, if it be properly done, for in this way it is not exposed to wind and frost as much even as if left standing where it grew. It is often desirable to pursue this method in order to have the trees at hand, ready to be planted at any convenient time in the spring, and that we may obthe answers received recommend that the trees should convenient time in the spring, and that we may obtain a better selection from the nurseries than sometimes it is possible to do in the spring. Before another season we shall endeavor to express our views of the proper method of heeling in, at least in Canada, and so illustrate the matter by appropriate engravings that the merest novice need not err.

Fruit Culture.

NEVER since the settlement of the country, we think, have the fruit growers of Western New York reaped such a golden harvest as the present season. The crop was large, the fruit fair, and the prices have been more than remunerative, for streets in the neighbeen more than remunerative, for streets in the neighborhood of the docks and shipping warehouses have been blockaded with barrels of apples, and we observe the same state of things along the line of railroad and canal, all through the Western part of this State. The local papers in several of the leading villages have given estimates of the amounts received by the farmers in their state. I localities, and also the number of barrels state, but these, in most cases, are quite incomplete. quite incomplete.

we have long thought that the leading business of Western New York would be the production of fruit for shipping. This opinion we have expressed on several occasions, and time only confirms the statement. Many this year will agree with us, who would not have done so before. The farmer who has in his pockets \$500 or \$1000, as the profits of a small orchard has an argument on this subject which he is not anxious to resist.—Rural New Yorker.

Cranberry Culture.

WHY is it that this fruit is not cultivated and sent to market by more of our enterprising farmers? The Boston Cultivator gives an account of a swamp belonging to Dr. A. D. Miller, located about twenty-five miles from Boston, Mass., across which he constructed a dam; in the winter the swamp was flowed, and gravel drawn on to the ice and spread. In the spring the water was let off, and the ground planted with Cranberry plants, in drais, eighteen inches apart. The part planted contained about fourteen acres, and was so arranged that it could be covered with water, retained in a reservoir higher up on the brook, in a little more than an hour; thus protecting the plants from frost at any season. The erop this season was 1,100 barrels of very choice fruit, some of which brought fifteen dollars per barrel, though the average price was about twelve dollars per barrel. If the Canadian producer cannot get more than five dollars per barrel, in what way will he make fourteen acres of swamp yield him a harvest of five thousand dollars more easily than by planting it with cranberries? Boston Cultivator gives an account of a swamp be-Canadian producer cannot get more than five dollars of man, while many farm crops are only the coarser brilliant scarlet; King of Sardinia, a deeper barrel, in what way will he make fourteen acres food of animals, greater care and skill may properly and Evening Star, a scarlet with lemo of swamp yield him a harvest of five thousand dolbe applied in bringing the former forward to a high lars more easily than by planting it with cranberries? degree of perfection.

3. The great amount of family keep up a constant bloom all the winter.

Double Portulaca.



This beautifut novelty is proving itself worthy of all the praises that heralded its introduction last spring. It was hard to believe that we were to have portulacas as double as roses, end of not less than half a dozen different colours. But these ustonishing promises were very satisfactorily fulfilled. About seventy-five of the plants produced perfectly double flowers, nearly an inch in diameter, of several shades of yellow and red, and a few of them striped. In habit, the plant resembles the common portulaca, flowering even more profusely. It does not bloom well in a cool or shady place, and in wet or pro racted cloudy weather, the buds dropping off without opening; but under a cloudless sky, exposed to the full rays of the sun, it flowers abundantly. The seeds do not germinate fully, and, for the present at least, we must be satisfied if we succeed in gettir - more than half of them to grow.

Grape Culture.

THE Maine Furmer, speaking of the cultivation of grapes in that cold State, says that he is more than ever encouraged to believe that they will succeed in raising grapes not only for the table but for wine. and gives as his reasons, 1st, the introduction of new and earlier varieties, such as the Hartford Prolific, Clinton, Concord, Northern Muscadine and Delaware; 2nd, that although the past season was not a favorable one for the grape, the show of fruit was of a superior character; and 3rd, because they now had nurseries in the State where plants could be obtained that had become acclimated, and could, therefore, be planted with but little risk of loss.

It such expectations are correctly based upon such reasons, there surely can be no doubt but that we can grow grapes abundantly in Canada. Care is needed in the selection of vines to procure only those that have been grown from sound, healthy, well ripened wood; else the plants, if they live at all, will be feeble and unproductive.

Protecting Trees in Winter.

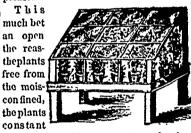
Young trees are liable to the attacks of field-mice at this season, and no time should be lost in securing them from their ravages. Any one who has had a nice young orchard girdled by these little depredators, or even lost some favorite tree by reason of their sharp teeth, will appreciate the amount of mischief they are capable of doing. One very desirable point is to keep the ground in the vicinity of the trees so perfectly clean, free from weeds, grass, and all other material wherewith they can make themselves comfortable, that they will not stay with you, but seek their winter quarters where they can find something wherewith to build their "nests." But if this has not been done, a couple of horse-shoe draining tiles set so as to inclose the tree will prevent them from getting their teeth to the bark, though if the snow should fall so deep as to cover the tile, it would be necessary to add another story, lest they take advantage of the increased elevation afforded by the snow. Common wrapping paper thickly coated with tar, and wound around the trunk of each tree so as to reach from the ground above the snow line, and securely fastened nice young orchard girdled by these little depredaby a little wire, will be found to keep them off.
Heaping the earth around the tree to the height of a foot or so, and trampling the snow around the tree after each fall of snow, may be of some benefit, but is not a size protection. is not a sure protection.

PREPARING SOIL FOR GARDENS.—There are several reasons why the soils of gardens should be made better than for ordinary farm crops. 1. Most of the products of gardens are of a succulent nature, or will otherwise bear high feeding, such as garden roots in general, plants whose leaves furnish food, as lettuce, exhapse the services where which produces here and some cabbages, &c., or those which produce large and suc-culent fruits, as cucumbers, melons, squashes, &c. 2. As nearly all garden crops are the immediate food

supplies which may be obtained from a half acre garden, provided the best soil is prepared for their growth, renders it a matter of equal importance and economy to give the soil the very best preparation.
It rarely happens that there is much selection to be made in soils as we find them in nature, for gardening purposes, unless particular attention is given to the whost in cheesing either the property of the selection. purposes, unless particular attention is given to the subject in choosing a site for a new dwelling. Generally, we have to take the land as we find it. Unless, therefore, we happen to find it just right, we should endeavor to improve it in the best manner. The principal means for making a perfect garden soil, are draining, trenching, and manuring.—Annual Register.

House Plants in Winter.

We present our readers with an engraving of a very neat, convenient, and cheap flower stand. It is made of wood, the sides glazed with ordinary window glass, and the top can be covered with a window sash, either fastened with hinges or not, just as you please.



ter than one, for on that are kept dust, and ture is so that have a humid

stand is

The temperature is also made more atmosphere. uniform, the plants being in this way protected from sudden alternations of heat and cold that may take place in the room. The great difficulties in growing plants in the house are the excessive dryness of the air, the great heat of the rooms, and the frequent air, the great heat of the rooms, and the frequent changes of temperature. All these are in a great degree obviated by this simple contrivance. Let it the the window where the bright sunlight streams in the longest, for plants will not be rigorous unless they have the direct sunlight during some part of the day. Never use a glazed pot or porcelain jar, but always a common clay pot. Let there be an inch of broken crock or charcoal at the bottom of the pot, that any surplus water may readily drain off; and never allow water to stand in the saucer, if you use one. At night, if there be danger of the plants being one. At night, if there be danger of the plants being chilled by remaining near the window, the stand may be rolled out into the middle of the room. In this way there may be no lack of flowers all the winter. way there may be no lack of nowers are the which.

A few of the profuse-blooming roses, such as Hermosa, which is a pale rose colour; Aimee Vibert, pure white; Gloire de Dijon, beautiful creamy yellow; and Sanguinea, a rich deep crimson; with the scarlet Tom Thumb geranium, and a few of the most distinct Vorbenas, such as Africa, a dark purple; Defiance, a brilliant scarlet; King of Sardinia, a deep crimson; and Evening Star, a scarlet with lemon eye; will make a most delightful collection of plants that will

The Planting of the Apple Tree.

BY WILLIAM CULLEN BRYANT.

Come, let us plant the apple tree!
Cleare in tough greenward with the space,
Wido it its hollow bed be made
There gently lay the roots, and there
Sift the dark mould with kindly care,
And press it o'er them tenderly,
As round the sleeping infant's feet
We sofily fold the cradie sheet,
Bo plant we the apple tree.

What plant we in the apple tree?
Buds, which the breath of summer days
Shall lengthen i-to leafy sprays;
Bughs, where the thrush with crimson breast
Ehalh hunt, and sing, and hide her nest
We plant upon the sumpy isa
A shadow for the neontide hour,
A sheller from the summer shower,
When we plant the apple tree

What plant we in the apple tree?
Sweets for a hundred flowery springs,
To load the May wild's resiless wings,
When, from the orchard-row, he pours
Its fragrance through our open doors,
A world of blossoms for the bee;
Flowers for the sick girl's silent room
For the glad: Ant springs of bloom,
We plant with the apple tree

What plant we in the apple tree? Fruits that shall swell in sunny June And redden in the August need, And drop, as gently airs come by That fan the Liue September sky, While chi'dren, wild with Lory glee, Shall scent their fragrance as they pass, And search for them the tufted gras. At the foot of the apple tree.

And when above this apple tree
The witer stars are quivering bright,
And winds o howing though the might,
Girls whose young eves o'erflew with mirth,
Shall peel its fruit by cottage hearth
Ard guests in prouder homes shall see,
Hesped with theorange and the grape,
As fair as they in tint and shape,
The fruit of the apple tree

Fach year shall give this above tree. A broader flush of restate becom.

A deeper maze of verdirous glo m. And loosen when the frest-et leds lower, The crisp brown leaves in the ker shower. The years shall comound pass, but we Shall hear no longer, where we he, The summer's songs, the autumn's sigh, In the boughs of the apple tree.

And time shall waste this apple tree,
O, when its aged branches throw
Thin shadows on the sward byow,
that shall the trick of inercy te
Amid the toils, the strifes the ters
Of those who live when length of years
Shall waste this apple tree?

Atlantic Monthly for January

Varieuated Hemour.—Quite an addition has been made to our variegated evergreens by the accidental growth of a variegated variety of our hardy and well-known hemlock. This beautiful plant originated at the Evergreens, the residence of Dr. E. G. Kelley of Newburyport. The discovery of this silver Hemlock a hedge of small seedling hemlocks, this one showing wasas follows—In the Spring of 1856 Dr. Kelley set out a marked difference in appearance, but not enough to discard it. Supposing it to be less healthy than the rest, he gave it a close trimning. The new growth was still so very white and apparently fading, that he cut it the second time, and again every shoot was so destinte of the normal green that he concluded it would only savive for that year. The next spring the obstinate little tree grew more rampantly than ever, but with the same persistent haracter, and it then, for the first time, occurred to the proprietor that it was a distinct variety. It was however, too late to incur the risk of losing it by removal, and it was not till the following spring after growing it in the hedge-row two years, that it was transplanted to where it could receive proper attention and development. The tree is now about seven feet high, in a very flourishing condition, and, indeed one of the most beautiful specimens of silver or variegated foliage. This is probably the only known variety of Abies Canadensis, the most grace—all and hardy of all our indigenous evergreen trees. It is Maga_inc.

AN Cons keeps best on the cob. Shell such only as is needed for winter use. The second quality, or smaller ears, if kept in narrow, well ventilated cribs, will make good food for commencing the fattening of twine next autumn.—Genesic Furmer.



Loultry Nard.

THE production and rearing of domestic fowls though one of the lesser interests of the farm, is well deserving of more attention than it usually receives. It is an old proverb, that what is worth doing at all is worth doing well, and comparatively insignificant as this branch of rural economy may seem, it can be made to pay a handsome return for the time and trouble devoted to it. Moreover, a good supply of poultry and eggs all the year round, is no mean item among the conveniences and comforts of the firmer's home. No agricultural interest, however small, can pessibly be thrifty and prosperous if left to take care of itself. Many a farmer shakes his head in grave doubt whether it is profitable to keep poultry and what wender if the hens are left to steal their nests; rats, &c., permitted to rob them of their eggs and the only taste of chicken ever got is now and then a half-starved biped, that has lived precariously, and been caught and killed "premiseuously" Every tiller of the soil has the facilities for keeping positry profitably, and can, if he will, make them comfortable and thrifty. But in order to this, he must be willing to take a little care and trouble, in the way of providing houses, nests, and other conveniences. With simple, inexpensive, yet suitable reimgements, very little attention will be required to make poultry-keeping both pleasant and profitable. The daily care of the poultry-yard,-feeding, watering and otherwise attending to the comfort of its inmites, may usually be left to the farmer's household. Properly managed, it will be rather an ammusement than a toil to them.

Taken in the angregate, poultry and eggs form important arches of commerce, and could we get at the exact value of their annual production and consamption we should be surprised at the accumulathere is he had into immense totals. It is, however, only approximate estimates that can be made, yet these give some idea of the real importance of a branch of agricultural economy, which at first strikes the mind as trivial. Thus it is computed from reliable data, that the annual production and consumption of poultry and eggs in the United States cannot be less than \$15,000,000. Monsieur de Lavergne carimates that the poultry of Great Britain for 1861-2 was of the value of twenty million francs (\$4,000,000); while the total value of the two products—poultry and eggs—in France, at the same period, reaches two hundred millions of france (\$10,000,000.) This last estimated product leaves a large margin for exportation from France over and above the requirements for home consumption, which surplus is sent chiefly to England. In 18th, the whole value of poultry and eggs imported into England was £385,000 stg., or nearly \$1 s00 000. This, of course is independent of the large quantities raised by England on her own soil large quantities raised by England on her own soil These figures are quoted briefly, to show the importance of this branch of rural economy in other countries, and thus to suggest its magnitude in our own. In relation to Canada, the only figures at hand are those furnished by the Trade Returns for 1862, viz.: Ponitry exported, \$20,546; Eggs ditto, \$53,940; total, \$74,486. All the poultry, and nearly all the eggs, were sent to the United States, and but for the unfavourable state of the money market, an immense poultry and egg trade might have been done in that direction. If there be added to the export returns poulty and egg trade might have been done in that direction. If there be added to the export returns the quantity and value of these articles consumed at home, it will be seen that the tenants of the poultry-yard are by no means to be despised, but are entitled to more appreciation and encouragement. While, therefore, we dilate on the merits of the Short-horns and Galloways, Southdowns and Cotswolds, Suffolks and Berkshires, we shall not forget the Dorkings, Spanish and Cochins, and their congeners of the noultry-yard. poultry-yard.

Friesh Eoos all Winter.—Hens will lay about as well in winter as in summer, if "circumstances" permit. To produce eggs well, fowls must be comfor's ble, and must have animal food. When the ground popen, and worms and insects abound, they get their own material. They must have gravel to keep their grist-mills in good working order, and lime to make the shells. Sometimes a hen drops a shell-less egg, but she is ashamed of the skinny, unprotected thing, and selden does it twice. Sometimes she will drop an egg where its life is sure to be frozen out, but her instruct teaches her better, and she stops doing so, if possible. Here is the whole secret of having plenty of eggs all winter,—we have tried it long, and so have others, with good success always; and as eggs will sell well this year, owing to the high price of meats, we advise attention to the matter:

1. Give the fowls some warm, thoroughly sheltered place of retreat, and keep it clean. Take out all the droppings at least once a week: they are excellent guano, worth half the cost of the food. (We have a nice, plaatered, warm room in the sunny scuth-east sorner of she second story of the barn, provided with roosts and laying boxes, having the entrances turned so as to be out of sight of the rest of the poultry. Hene are modest animals, always seeking hidden places for nests A narrow enclosed stairs leading up from the barn-yard is freely used.)

2. Let them have unfrozen water always accessible.

2. Let them have unfrozen water always accessible. Semi-fluid eggs cannot be made out of dry grain.

3. Hens are not gluttons. Let them Lave grain in abundance, and they will eat only what they need.
4. Provide a wide box of gravel, earth, sand, ashes, and old plaster, or finely-broken oyster shells, for them to roll in, and to pick out such materials as

they require.

5. Give them two or three times a week, if not daily, a moderate supply of fresh meat, (never any salt.) Nothing comes amiss—bits of cartilage, intestines, any waste scraps. They will pick bones very clean We depend upon a cake of scraps from the bone or glue boilers. The hard scrap-cakes, of 50 to 100 lbs. each, which are sold at \$\frac{1}{4}\$ to \$1\frac{1}{2}\$ cents a pound, are just the thing. This material does not decay, and the hens amuse and feed themselves by picking off little bits from time to time. The waste vegetables, clippings from cabbages, potato skins, cold potatocs left over (if not cooked in salt water,) are relished by the noultry, and turned to account.

are relished by the poultry, and turned to account.

The above simple directions, it rightly followed, seldom if ever fail to secure a full and profitable supply of eggs all winter.—Am. Agriculturist.

A Prof. Table Stock of Fowls.—The boston Cultivator of December 12, makes the following stactment:—Knowing that Hiram W. Jones, of Dover, Mass., had for several years paid considerable attention to the raising of chickens and the production of eggs for market, we requested him to furnish a statement in regard to the business. In compliance with that request, he has given us certain memoranda, from which it appears that on the first of January last he had 15 hens and two cocks, worth \$8.50. From January 1st to November 30th, (eleven months,) the cost of food, consisting of Indian corn, buckwheat, and boiled potatoes, consumed by all the fowls on the place, was \$23.75, making the outlay \$32.25. During this period he sold 123 7-12 dozen eggs for an aggregate amount of \$27.95. He also sold during the same time, 101 fowls of various ages, for \$50.80. The stock on hand on the 30th of November, was twenty-seven hens and one cock, worth \$14. The aggregate returns are therefore \$92.75, deducting from which the value of the original stock and expenses, \$32.25, and there remains \$60.25.

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No account was made of all the eggs required by a family of eight persons, which may be offset against the care of attendance, this being given by Mrs. Jones. All the eggs and chickens were taken by the market-man, who sold them in Boston, and the sums named were returned to Mr. Jones. The highest price obtained for eggs was 30 cents per dozen, and the lowest 18 cents, the average being a fraction less than 24 cents. More than half of the chickens were hatched before March 13th, and the sales commenced on the 6th of May, when six chickens were sold for \$4.20. Of the eggs set 70 per cent, hatched, and of the chickens brought out, 90 per cent, were saved.

Mr. Jones states that his fowls are a cross between the Dorking and "old-fashioned barn-yard fowls."

Mr. Jones states that his fowls are a cross between the Dorking and "old-fashioned barn-yard fowls." They have heavy bodies, with short, yellow legs. They are kept most of the time in their house and and yard, which is warm in winter and cool in summer.

A man's boots get tight by imbibling water, but the wearer never does.

LADIES, please be sweet, but don't be too formal. Be roses, but dont be prim roses.

Wur is wealth left by a miserly varent like a grab'



The Rousehold.

"Good husband without it is needful there be, Good housewife within Is as needful as he."

So wrote, two hundred years ago, Thomas Tusser, a noted farmer and poet, in a quaint old book entitled, "Fine Hundreth Points of Good Husbandry, vnited to as many of Good Huswiferie." lapse of time has not diminished a whit the truth of this homely couplet. The maxim, "if a man would succeed well in his livelihood, he must ask his wife," is more applicable, perhaps, to the farmer's calling than to any other. No matter how well things may be carried on out of doors, unless there be thrifty and judicious management within doors, all will go wrong. The exercise of skill, prudence, and good judgment on the part of the farmer's wife, is called for in a great variety of ways. The poultry are usually her charge. She must superintend or personally perform the operations of the dairy. The flower-garden is also her sphere. Items of information concerning these matters, will be found under their appropriate headings in this journal. But there is also the department of the household proper, which we cannot but regard as quite important enough to claim a distinct place. Bread-making, the realm of cookery, and the entire round of domestic economy, furnish a vast number of topics on which it will be our aim from time to time to furnish useful and valuable information. The farmer and his family should thoroughly understand, and if need require, as it does in most cases, be able themselves to perform the duties respectively of the farm and farmhouse. There is a happy medium between unintelligent drudgery and genteel contempt for household work, at which the farmer's wife and daughters should aim. They should be equally at home in the spheres of labor, and of intelligence and taste.

Among Hone's works there is this rhymed advice to the agriculturists of the date 1722 -

Man, to the plow.
Wife, to the cow;
Girl, to the cow;
Boy, to the mow;
And your rents win be netted.

. These lines were happily travestied in the Times newspaper under the title of The Farmer's Centenary Contrasted, in 1822-in illustration of the causes of agricultural distress:

Man, tally ho!
Miss, plano;
Wile, silk and satin;
Doy, Greek and Latin;
And you'll be Gazetted.

The above rhymes exhibit the two extremes between which there is a golden mean, whose realization is the true conception of a well-regulated farmer's household. We would by no means deprive the miss of her music, the wife of her nice dresses, or the boy of his classics,-but to aspire to these in ignorance and neglect of the essential every-day duties of busy prosy life, were folly indeed. Henry Coleman, one of the most distinguished of agricultural writers, after describing a farmer's daughter perfectly at home in the accomplishments of the parlour, but deplorably ignorant of the manipulations of the kitchen, and unwilling to touch broom, scrubbing-

brush, or wash-board—the vulgar things l—very well observes, that Lot's wife would be of more use as a help-meet to a young farmer than such a dressed-up doll,—"for she could at least sall his bacon."

The best legacy parents can leave their children is the knowledge and ability to help and tabe care of themselves. This is far better than a large fortune. In any circumstances, they will always have a couple of excelent servants ready to do their bidding, viz.: their own two hands. Ignorant incana' lea who need to be waited two hands. Ignorant incapa' les who need to be waited on, are indeed belpless and pitiable beings, easily disheartened at the troubles and difficulties of life, while the well taught and self reliant rise above

them, and push forward to success.

As a first instalm at 14 what we intend to do in the department of The Household." we subjoin a number of items culled and condensed from our exchange papers, and from various other sources.

Sausage-making.-As this is the time for making sausages there are many who would be glad to see the following recipe, which has been tried and ascer-tained to be good:—10 lbs. meat; one pound of salt; three oz. pepper; half-pint of sage after it is pulver-

GERANUM LEAVES FOR CUTS.—Miss Fry says it is not generally known that the leaves of geraniums are an excellent application for cuts, where the skin is rubbed off, and other wounds of that kind. One or two leaves must be bruised, and applied on linen to the part, and the wound will become cicatrized in a

TREATMENT OF BURNS AND SCALDS.—Cold water is the readlest, surest, most plentiful, and for these reasons thebest remedy for burns and scalds. Use it instantly, it will remove pain and smarting; keep a cloth wet and cold upon the affected part four or five hours after the injury has occurred, a blister will never rise, and the skin will be quite free from pain

To MAKE HEAD-CHEESE, on POTTED-HEAD.—Take the heads, tongues, feet, and other pieces, if you choose. Make them clean and soak them. Then the heads, toughes, nee, and soak them. Then choose. Make them clean and soak them. Then boil until they will slip from the bones ensily. Chop and season with salt, black pepper, cloves, sage or sweet marjoram rubbed fine. Mix well and place it in a pan; set a tablet on the top with a weight upon it. In two days it will be cold and fit for use. Turn it can and out it in slices for ten. or suppers. it out and cut it in slices for tea, or suppers.

it out and cut it in slices for tea, or suppers.

Winter Sour.—Take carrots, turnips, and the heart of a head of celery, cut into dice, with a dozen button onions; half boil them in salt and water, with a little sugar in it; then throw them into the broth; and, when tender, serve up the soup; or use rice, dried peas, and lentils, and pulp them into the soup to inicken it. With many of these soups, small suet dumphings, very lightly made, and not larger than an egg, are boiled either in broth or water, and put into the tureen just before serving, and are by most persons thought an improvement, but are more usually put in plain gravy soup than in any other, and should be made light enough to swim in it. light enough to swim in it.

Salting and Packing Pork.—A correspondent of the American Agriculturist gives the following directions on this subject:—"I will tell you my mode after an experience of forty years. I allow the hogs to cool after killing; take out the bones [ribs and spine;] SALTING AND PACEING PORE .cool after killing; take out the bones [ribs and spine;] cut off the hams and shoulders; then cut the side pork into strips of convenient width; put in a quantity of salt in the bottom of the cask; then put in acourse of meat, laying the pieces on the edges; then a covering of salt; then another course of meat, and sc on until the cask is full. The whole is carefully kept covered with brine as strong as salt and boiling water will make, skimming the boiling brine so long as anything rises. The brine is put on cold, and I am careful to know that there is always undissolved salt in the barrel. It is not found necessary to scald the brine barrel. It is not found necessary to scald the brine in spring. I sometimes use saltpetre and sometimes not. Ifams and shoulders are salted in separate casks."

CARPET SWEEPING.—Take a common wash-tub or some vessel large enough to admit a broom freely, and put in clean cold water to the depth of a foot or more then take a broom (one partly worn, so as to be a little stiff, is the best), dipit in six inchesorso, and hold over the tub, or go out of doors and knock off all the drops of water. This can be done most effectually by holding it in one hand and rapping it with the other on the broom corn above where it is wet. Commence brushing lightly at first, going over with it a second brushing lightly at first, going over with it a second time, or more, and if your carpet is very dusty, do not sweep more than a square yard or two before dipping your broom into the water again; this will rinse off all the particles of dust adhering to the broom. Rap off the drops of water, as before, and begin again; continue to do so till the whole is cleaned. Should the water get very dirty before completing the room, it can be changed. One who has never tried the experiment will probably be surprised at the quantity of dirt which will be washed from the broom into the water. A carpet can be cleaned more effectually in this way than it can possibly be done with a dry broom, as the particles of dust adhere to the broom instead of rising to fall back on the carpet. There is no danger of injuring even a fancy carpet, if the drops of water are thoroughly removed from the broom. Let no one try this who has not time and patience.

How to Mare Good Coffee .- "Thick as mud," muttered the husband of a shiftless wife who never made good colice "How is it that at C.'s and B.'s we always get such delicious coffee. Clear as amber, dashed with real cream, it is a dish fit for the gods—but this!" and a wry mouth, made in expressive silence, finished the remark. His wife fretted, and made some peevish reply. Had we known the parties we could have told them how clear, good coffee may always be had with little trouble or expense—thus:—To have good coffee it is best to have inay aways be had with little trouble of expense—thus:—To have good coffee it is best to buy a bag—if your purse be large enough—and roast it yourself, as required. When ground, beat it up well with a little cold water and white of egg, (one egg wil do for three times), pour boiling water on it; then boil ten minutes; after which again pour in about a cup of hot water, and stand aside to settle for five minutes. In this way you cannot fall to have good

THESE HISTS FOR THE SEASON.—Be sure and cover the bits of your bridles with leather, to prevent the frost making the mouths of your horses sore. It is downright cruelty to put an iron bit into a horse's mouth on a cold morning. If you doubt it, bit yourself some day when the mercury stands below zero.

When you cut India rubber, keep the blade of your knife wet, and you can then cut it without difficulty. We have heard of and tosted a great many kinds of

knife wet, and you can then cut it without difficulty.

We have heard of and tested a great many kinds of waterproof blacking for winter boots. Let us tell you what we have tried for two winters, and found to be the best article we know of. When your boots are stiff and you think need oiling, wash them in castile soap-suds—oil before the leather dries, (you may use blackball or any kind of grease;) have a saturated solution of gum shellac in alcohol—anybody can make it, as all there is to be done is to dissolve in a pint or half-pint of alcohol just as much shellac as the liquid will take up—and apply this solution with a sponge to the oiled boots. In two or three minutes the shellac will dry and harden, and you will have a coating on your boots through which the water cannot by any possibility penetrate. Try it, reader.—Germantown Telegraph

A DARK HOUSE.—A dark house is always an unhealthy house, always an ill-aired house, always an ill-aired house, always an ill-aired house, always at dirty house. Want of light stops growth, and promotes scrofula, rickets, &c., among children. People lose their health in a dark house, and if they get ill they cannot get well again in it. Three out of many negligences and ignorances in managing the health of houses generally, I will here mention as specimens. First, that the female head in charge of any building does not think it necessary to visit every hole and corner of it every day. How can she expect that those under her will be more careful to maintain her house in a healthy condition than she who is in charge of it? Second, that it is not considered essential to air, to sun and clean rooms while uninhabited; which of it Second, that it is not considered essential to air, to sun and clean rooms while uninhabited; which is simply ignoring the first elementary notion of sanitary things, and laying the ground for all kinds of diseases. Third, that one window is considered enough to air a room. Don't imagine that if you who are in charge dont't look to all these things yourself, these under you will be more exactly they won are in charge. those under you will be more careful than you are. It appears as if the part of the mixtress was to complain of her servants and to accept their excuses—not to show them how there need be neither complaints nor excuses made.—Florence Nightingale.

Malaria.—This atmospheric poison has been proved to be caused by the decomposition of organized matto be caused by the decomposition of organized that ter, and it exists to some extent everywhere. Vegetation both grows and dies, and in the soil its decomposition goes on at various rates. Soils generally are but a rich, highly-manured, warm soil is position goes on at various rates. Soils generally are acidulous; but a rich, highly-manured, warm soil is alkaline. Where most alkali exists, there is a greater facility for the escape of vapours, such as we suppose to be hurtful. The extreme condition of putrescence may be very readily produced in a soil by artificial means; the use of a little ammonia, for example, more than vegetation will bear. The substances putrify until the whole becomes fetid in the highest degree. We have then a soil rich in organic matter and undrained—a swamp of the worst form if the soil be not very noor: worse, perhaps, than was ever soil be not very poor; worse, perhaps, than was ever seen in nature. It is artificial malaria. We can, then, produce malaria from the soil by fostering some of its tendencies.

Cold weather tends to produce acidity of the soil; hence malaria is always diminished with a lower temperature. When a warm alkaline soil is washed with water and exposed to the air, decomposition is stopped, and it sends forth less malaria. Drainage is the most effectual method of preventing malaria arising from swampy districts.

Why is a tender hearted person like a housekeeper with little furniture?

Desme is the bud, hope the flower, and enjoyment

Curing a Kicking Cow.

Ayong the early purchases, and among the animals that promised well, was a dun cow, which it was found necessary, after a few weeks of full feeding, to cumber with a complicated piece of neck furniture, to forbid her fliching surrepticiously what properly belonged to the pail. Self-milkers are not profitable. I have faith in the doctrino of rotation, and the quick reconversion of farm products into the elements of new growth. But here was a case of reconversion so supid, as to be and to all the laws of economy. It suggested nothing so strongly as that rapid issue of government money, which finds immediate absorption among the Governmental officials. Does the Government really milk itselft and can no proventive be found in the way of

itself? and can no proventive be found in the way of neck machinery, or other?

Another animal was admirable in every point of view. I found her upon one of the North River wharves, and the perfect outline of her form and highbred action, induced a purchase, oven at a long figure; but the beast proved an inveterate kicker.

The books recommended gentleness for the cure of this propensity; so does humanity; I concurred with both, in suggesting that treatment to Patrick.

"Gintle is it? And bedad, sir, she's too ould for a cure. I'm thinking we must tie her legs, sir; but if ye orders it, bedad i's meself can be giutle."

"Soh, Mooly—soh—(and a kick;)—soh, ye baste,

"Soh, Mooly—soh—(and a kick;)—soh, ye baste, (a little livelier,) soh (and a kick)—soh, blast ye;—soh, Mooley—sou—Katy—SOH—(and a crash;) och, you oul | baste ye,—take that!" and there is a thud of the milking stool in the ribs.

The "gintleness" of Patrick is unavailing. But the contact are accordant onimal and not to be leastly discorded.

cow is an excellent animal, and not to be hastily dis-carded. Milker after milker undertook the conquest. carded. Milker after milker undertook the conquest, but with no better success. The task became the measure of a man's long-suffering disposition; some gave over and lost their tempers before the first trial transfer of the confirmal days the state of the confirmal days. was finished; others conjured down the spirit by all sorts of endearing epithets and tenderness, until the conquest seemed almost made, when suddenly pail, stool and man would lapse together, and a stream of curses carry away all record of the kindness. We came back at last to Patrick's original suggestion the legs must be tied. A short bit of thick tope passed around one foot and loosely knotted, then passed around the second and tied tightly in double knot, rendered her powerless. There was a slight struggle, but it was soon at an end; and she made no opposition to the removal of the thong, after the miking was over. With this simple provision, the trouble was all done away; and for a whole year matters went well. But after this there came a reformer into control of the dairy. The rope was barbarous; he didn't believe in such things; he had seen kicking cows before. A little firmness and gentleness would accomplish the object better; God didn't make cows' legs to be tied. The position was a humane one, if not logical. And the thong was discarded.

"Well, Patrick," said I, two days after, "how fares

the cow?"

the cow?"

"And begorra, it's the same ould baste, sir."

A few days later I enquired again after the new regimen of gentleness and firmness.

"Begorra," said Patrick, "she's kicked him again."

A week passed, and I repeated the enquiries.

"Begorra, she's kicked him again!" screamed Patrick; "and it's a divil's own bating he's been giving the ould baste."

Sure enough, the near cow was injured soilly the

Sure enough, the poor cow was injured sadly; her milking days were over; and in a month she went to the butcher. And this advocate of gentleness and firmness was one of the warmest and most impassioned philanthropists I ever met with.

The moral of the story is—if a cow is an inveterate kicker, tie her legs with a gentle hand, or kill her. Beating will never cure, whether it come in successive thuds, or in an explosive outbreak of outrageous violence. I suspect the same ruling is applicable to a great many disorderly members of society.—Ik Marvell.

GIVE THE BOYS TOOLS .- We have so frequently spoken of the importance of a good set of tools on every firm, that we fear our readers will think the subject a favorite one with us. So it is, and at the risk of trespassing upon the reader's patience, we again present it. There is, in man, what may be termed, a "making instinct," and our houses, garments, ships, machinery, and in fact, everything we use, are the practical results of this instinct. How important then that this faculty be caltivated, and that the idea be at once and forever abandoned that none but mechanics require this great element of use-fulness and happiness. Whatever a man soccupation, whether he be a farmer, a merchant, an artist or a mechanic, there are hourly occasions for its practical application. Being thus general in its usefulness, the cultivation of this constructive faculty should be a primary consideration with parents, but more parti-

cularly with farmers, who have sons whom they design to be their successors upon the farm Skill in the use of tools is of incalculable advantage to him who tills the soil—It enables him to do many things which others cannot well do for him, and do them better and cheaper. It gives usef upployment to many an otherwise idle hour. It protapts him to add many an otherwise fulls hour. It produpts him to add a thousand little conveniences to the house and farm, which but for this skill would never be made. In a word, it is the carrying out, in a fuller sense, of the design of the Creator, when he implanted this faculty of constructiveness within him. Let it then be cultivated in children. Indulge the propensity to make tivated in children. Indulge the propensity to make water-wheels and miniature waggons, kites and toy boats, sleds and houses, anything in fact which will serve to develop it and render it practically useful. Give the boys good pocket knives, and what is bettep, give them a good workshop. Employed in it, they will not only be kept out of mischief, but they will be strengthening their muscles, exercising their mental powers, and litting themselves for greater usefulness, when they shall be called upon to take their places in the ranks of men.—Philadelphia Callurist.

Care or Harness.—T. Oliver Ayres, a practical harness-maker, Kent Co., Del., contributes to the American Agriculturist the following suggestions: "Harness should be kept hung up on wooden pegs in a clean dry room with a plank floor, so that it may be free from dampness. When soiled, it should be washed with castile soap-suds. Harness that is in constant use needs oiling four times a year; if only occasionally brought out, as carriage harness, etc., twice a year will be sufficient, if the washing be not neglected. To oil harness, separate all the pieces, and lay them in water until thoroughly wet through. Then wash them clean, and allow them to dry sufficiently. To know when they are in good condition for oiling, bend a strap, and if the water does not for oiling, bend a strap, and if the water does not ooze out, it is dry enough. Train-oil (whale oil) is sometimes used, but neats foot-oil is much better. Wix with it a little lamp-black, and with a brush apply it to be did not the terms. it to both sides of the straps. About six hours after oiling, wash the whole with Castile sonp and warm water, let them dry, rub well with a woolen cloth, and buckle them together."

Markets.

Toronto Markets.

"CANADA FARMER" Office, Jany. 11, 1864.

The supply of grain on the market is light. Flour better demand for home consumption. Wholesale The supply of grain on the market is light. Four in better demand for home consumption. Wholesale—Superfine \$3 60 to \$3 70 per bbl; Fancy \$3 90 to \$1; Extra \$1 25 to \$4 40; double Extra, \$4 70 to \$5. A good family flour may be had at retail for \$1 25 to \$4 75 a bbl., and Extra at \$5.

Fall Wheat—in limited supply but good demand at from \$00 to 45c for comments good. 95c to \$1.03 for

from 80c to 95c for common to good; 95c to \$1 03 for good to choice; \$1 01 to \$1 05 for extra.

Spring Wheal—very active and firm at 75c to 80c for common to good; 80c to 82c for good to choice.

Barley—steady and firm at 70c to 78c per bush.: extra complex bring 80c to 89c.

tra samples bring 80c to 82c.

Peas—very active at 50c to 53c per bush.; extra 5 ic to even as high as 56c per bush.

Oats—in good demand at 40c to 42c per bush

Beef—on the street by the quarter 3c to 32c per lb
for fore-quarters; 4c to 42c per lb. for hind-quarters;
extra, 5c per lb. Retail 32c to 62c per lb.

Mutton—in the carcase on the street 32c to 4c per

Ib.

Pork—in good demand, but the supply has been short for the last week, it is in consequence firmer and a shade higher; \$4.37½ to \$4.50 per 100 lbs. for common to good; \$4.00 to \$4.90 for good to choice; extra choice and heavy brings \$4.90 to \$5.

Isay—\$9.50 to \$10 per ton for good; \$10.50 per ton for extra

ton for extra.

Braw—in good supply at \$5 to \$6 per ton.

Bran—\$10 per ton; Shorts, \$13 to \$15 per ton.

Hides—(green) 5c to 6c per lb.

Calfskins—7c, 8c, and 9c, per lb.

Sheepskins—\$1 60 to \$1 90. Lambsking at this

Season of the year the same price as Sheepskins. Pelts 30c to 45c.

Calves—\$1 and apwards.

Butter—scarce. Fresh, wholesale at 11c to 15c per lb., retail 15c to 25c per lb. Tub butter, dairy packed, wholesale, 15c to 18c per lb. for choice—inferior life to 14c per lb.

10c to 11c per lb.

Figs.—wholesale, 121c to 17c per dozen; retail, 18c to 20c and 25c per dozen.

Potatoes-25c to 40c per bush wholesale, 50c to Chickens—plentiful at 25c to 40c per pair.

Duckes—30c to 45c each.

Geese—30c to 60c each.

Salt—\$1 50 to \$2 per bbl. Water Lime—\$1 50 per bbl. Apples—common to good \$1 to \$1 75 per bbl : exra \$2 to \$3 per bbl.

London Markets. London, January 9, 1864.

Pork trade brisk. Current rates \$4 to \$1 75. Fall

Wheat 90e to 95e per bushel. Spring, 70e to 75e for
extra. Oats, 35e to 40e. Peas, 50e to 53e. Beef, \$3
to \$1 50. Ituller, fresh, per lb., 14e to 17e; do. keg,
por lb., 12e. Potatoes, 75e to \$1. Eggs, per doz. 20e

Wood, per lb., 39e to 40e. IEdes, dry, per lb., 09e to
10e; do. green, 01e. to 05e. Sheepskins, \$1 25 to \$2.

—Free Press.

Montreal Markets.—January 9th.—Flour.—Pollards, \$2.25 to \$2.50; Middlings, \$2.60 to \$2.90; Fine, \$3.20 to \$3.40; Super. No 2, \$3.70 to \$3.80; Superine. No. 1, \$4.20 to \$4.30; Faney, \$4.50 to \$4.60; Extra, \$1.80 to \$4.90; Superior Extra, \$5.25 to \$5.50. Wheat.—U. C. Spring 90c. to 93c. ex-cars; U. C. Winter, 95c. to \$1. Uatmeal.—\$5.00 per brl. of 200 lbs. Barley.—70c. to 75c. per 60 lbs. Peas.—Good, 65c. to 70c. per 66 lbs. Oats.—About 40c. per 32 lbs. Buller.—Fair to choice, 15c. to 18c.. Pork.—Mess, \$13.50 to \$14; Prime, dull, \$10 to \$10.50. Drrssed Hoys.—\$5 to \$5.50. Lard.—Steady; barrels, 9c. to 94c.; kegs 94c. to 10c. Tallow.—84c to 94c. Fair business doing. Cul-Maxis.—Hams, sugar-curcd, canvassed, 9c. to 10c.; do. smoked, 6c. to 8c., 18acon, 5c. to 64c.; Shoulders, 4c. to 6c. Prices strictly nominal; nothing doing. Ashes per 100 lbs., Pots, \$5.174 to \$5.20; Inferiors, \$5.20 to \$5.224; Pearls, \$5.50 to \$5.65. Petroleum.—Dull, at 35c. to 40c.—Wilness.

Chicago Markets—Jan. 6.—Sales were at the range of \$1 17½ to \$1 18½ for No. 2 spring, and \$1 11½ to \$1 12 for No. 2 in store—closing firm but quiet. Corn—92c. to 92½c. for No. 1, and 91c. to 91½c. for No. 2 in store. New corn was in demand at 82c. to 8½c. in store. Oats—Quiet; No. 1 in store at 66½c. to 66¾c. and at 63½c. to 64c. for No. 2 in store. Ryc—\$1 06 to \$1 07 for No. 1 in store, and at \$1 03 for No. 2 in store. Barley—Sales on track at \$1 25 for No. 2, and \$1 09 for rejected. Beef Cattle—firm at 3c to 4c for medium grades. Dressel Hogs-Were in light supply; sales at \$6 10 to \$7 35.—Times.

CATTLE MARKET--*Hogs*—The entered sales to-day at the various yards amount to 2,057 hogs at \$5 00 to \$6 50; but the bulk of the transactions have taken place at \$5 70 to \$6 50 per 100 pounds—the highest range on record for a considerable period. Beef Cattle—The whole receipts to-day amount to about 60 head of beef cattle; and the entered sales to 106, at prices ranging from \$3 25 to \$4 372 per 100 lbs .-Tribune.

Albany Cattle Markets—January 9.—
Beeves of every quality have advanced half cent. per
lb. live weight. Prices ranging from 5c to 63c for
the outside for choice extra. Demand quick. No
premium in market. Receipts 2,500. Sheep—In active request at 63c per lb. for light common to 7c for
fair; 73c to 8c for good to extra heavy fine wooled.
Receipts for week 5,000. Hogs—Selt quick at 73c to
8c. Receipts light. Dressed hogs 9c to 93c.

Brighton (U.S.) Cattle Markets—Jan. 6.

Beef Cattle—Extra \$9 00 to \$950; 1st quality \$8 50 to
\$8 75; 2nd do \$7 50 to \$8; 3rd do \$6 to \$7 60 per
100 lbs (the total weight of hides, tallow and dressed
beef.) Ilides—9½ eper lb. Tallow at 9 eper lb. Lambskins—\$2 25 to \$250. Sheepskins—\$2 25 to \$2 50.

Slores—Two years old \$16 to \$25; three years old
\$25 to \$50. Working Oxen—\$85, \$100 to \$125.

Affich Cours—\$25 to \$60. Sheep and Lambs—Lambs
\$1 50 to \$7. Sheep 6c to 7c per lb; extra 74c. Fat
Hors—7c per lb. Hogs-7c per 1b.

Buffalo Markets-Jan. 8.-Flour at \$6 00 for extra State; \$6 25 for extra Wisconsin; \$6 75 for Canada bakers'; \$7 00 to \$7 50 for double extra Ohio and Indiana. Corn nominal at \$1 15 to \$1 20. Oats— Market nominal at 71c to 72c for Canadian. Western 75c from store. Barley—\$1 30 to \$1 35. Rye—Nominal at \$1 25 to \$1 30. Peas—Quiet at \$1 01 to \$1 05. Seed—Timothy quiet at \$2 75 to \$3 for fair to choice. Clover quiet at \$7 00. Dressed Hogs—Sale 77 Canadian this morning at 84c averaging 220 lbs.

New York Markets.—Jan. 11.—Flour—market firm; superfine State \$6.30 to \$6.50; extra \$4.80 to \$7.00; common to medium extra Western \$6.96 to \$7.65; Canadian flour steady; common \$6.80 to \$6.50, good to choice extra \$7.00 to \$8.90. Wheat firmer; Chicago spring \$1.46 to \$1.50; Milwaukee club \$1.48 to \$1.62; very choice amber Michigan to 56 to \$1.61; winter red Western \$1.56 to \$1.61. Corn opiet; shipping mixed Western \$1.56 to \$1.61. Corn quiet; shipping mixed Western in store \$1 26

to \$1 27. Oals active; Canada \$9c to 91 je; Western 91 je to 93c. Pork firmer; me-a \$-0 25; old mess \$19 31 to \$19 50; new mess \$23 00; old and new prime \$15 00 to \$16 25. Land firm—13c to 13 jc. Gold 152 j. Callle Market—very brisk. Loof Cattle from 3c to 13c per lb. net. The bulk of the stock sells at 10c to 12c per lb. net. The bulk of the stock sells at 10c to 12c per lb. A lot of 40 Ohio Durhams v k the highest figure. Hojs, excited; supply light; prices 63c to 73c per lb. livo weight.

Wool.—The A. I. Journal says:—"There is a good enquiry for fleeces at full prices. Coarse foreign is quiet, while clothing grades are firm and in good request. We notice sales of 75,000 lbs. fleeces at 75c to 80c; 28,000 lbs, super and extra pulled at 72c to 77c; 50 bales Mestiza at 27c to 36c—and 60 bales Cordova on private terms."

Advertisements.



THE BEAVER MUTUAL

FIRE INSURANCE ASSOCIATION,

OFFICE No. 20, TORONTO STREET, TORONTO, NEXT THE MASONIC HALL.

DIRECTORS:

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D. THURSTON, TORONTO, Managing Director.
BANKERS—COMMERCIAL BANK OF CANADA

BANKERS-COMMERCIAL BANK OF CANADA

THIS Company is devoted entirely to Farm and Country Insurances on isolated risks, and is in extensive operation throughout Canada West. To render the payment of claims for fire losses certain and prompt, a special Guarantee Fund has been subscribed, of Ten Tuotsand Dollars, which may be extended to Five Hundred Thousand Dollars if needed, under the Statute. Amongst the contributors to this fund are.—Hon. J. Hillyard Cameron, M. P. P.; Henry Rowsell, Esq., Toronto; Dr. Duncumb, Richmond Hill; W. Henderson, Esq., Toronto, &c. &c.

No Risks taken upon Hazardous Property of any kind whatsoever.

Farm Property is insured for either Three or Seven years. For three years a premium note of from 1 to 2½ per cent. is taken, according to the nature of the risk; and one-sixth is payable thereon in cash. It is not probable that more than one-half of the note will ever be called in, unless extraordinary losses are sustained, and no larger sum will be assessed than is sufficient to cover the Company's expenses. Or Insurers may pay half the amount of the note in cash, and receive a full discharge from all assessments thereon.

The stock of Hay and Grain may be insured, whether on hand or not for two thirds of the second

ther on hand or not, for two-thirds of the average value usually on hand about Christmas time.

OPINIONS OF THE LEADING TORONTO JOHNNALS. From the Globe Feb. 5, 1863.

"British" Inversice Company.—We have pleasure in drawing the attention of Farmers desirous of insuring their property, to the advertisement of the "Beaver" Mutual Fire Insurance Association, which insures nothing but full buildings and stock, and similar country property. The officers of the Association are men in whom our friends may repose full confidence, and whose energetic exertions have, we hear, been attended with unusual success.

From the Leader, Feb. 5, 1863.

**Form the Ledder, Feb. 5, 1805.

**Form the Ledder, Feb. 5, 1805.

**Form the Ledder, Feb. 5, 1805.

**To have recommend to the notice of our country friends the advertisement of the Beaver Idutual Fire Insurance Association, which is devoted sol by to the business of farm insurance. Its affairs are managed by gentlemen whom we know to be reliable, and on principles well adapted to secure the interests of insurers. We are glad to hear that the Association has lately received very large accessions to its list of members, and is in a thriving condition.

CARDS OF THANKS.

AMELIASTICO, September 11, 1863.
To the President, Deaver Mutual F. I. Association.
Sin,—I beg to thank you for the liberal settlement of my claim against your office for loss by fire of my barn.
(Signed) DARIUS ORSER.

Lot 25, & TH CONCESSION, EARL, September 22 ad, 1863.
TO THE FRIEDRAT, BEAVER HUMBLE F. I. Association.
Sin,—I beg to return you my thanks for your prompt and eatls-factory settlement of my claim of \$1.40 35cts, f. T. — of grain and barns destroyed by fire on the night of the 11tt sat, which was caused by lightning.

(Clampal)

Witness, W HOW, Sen., J. P.

Owen Sound, Oct. of 16th, 1863.
To the Directors of the Beaver Mutha harvaner Association.
Genteres,—I beg to return you my thanks for the promptitude and ratisfactory manner in which you have settle. my claim for loss on my House and Furniture amounting to \$100 35c. The Brooccurred through defect in the stove-plpy, on the night of the 8th of October, and immediately on the nected of it being received by you, your inspector came up, and within a week from the time of the fire settled my claim,

I am, Jour obedient servant

LOT UM, OTH CONCESSION, TOWNSIND, December 19th, 1963. TO THE MAXAGER of the Beaver Mutual Fire Association, Toronto Sin,—I beg to thank you for your prompt and satisfactory settlement of my claim for loss by fire on my property on the 11th last, amounting to One Hundred Evilars. The fire was the act of an incendiary.

I am, yours truly,

CHARLES IL GRANJER.

THOS. J. THOMPSON,

Toromo, January 8, 1861.

Secretary 1-1t

POPULAR AGRICULTURAL BOOKS.

ARON Liebeg's Natural Laws of Husbandry \$1 25.

Copeland's Country Life, a Hand-book of Agriculture, Hort'culture, and Landscape Gardening, \$2 50. McVahon's American Gardener's Calendar, Illustrated, \$2.

Berr's Field and Garden Vegetables of America, Illustrated, \$3.

Stephen's Book of the Farm, new Edition, 2 vols.

Johnstone's Agricultural Chemistry, 12 mo., \$1 38. Yaux's Vives and Cottages, a series of Designs,

ROLLO & ADAM,

General Booksellers and Importers Toronto, January 12, 1864.

Farms and Wild Lands For Sale,

N moderate terms, some of them at a considerable sacrifice to effect a sale. Apply (if by letter post paid,) to

T. W. LAWFORD, Land Agent, London, Canada West

January 2, 1861.

1-lt*

FOR SALE, A CHOICE FARM,

83 Acres, 45 Cleared,

OOD FRAME HOUSE AND BARN, 3 miles Of (2 of it on plank road,) from thriving town of Newbury, on Great Western Railway. \$700 cash, and \$1000 mc 3 on time to suit the

purchaser. Apply (if by letter post paid.) to
T. W. LAWFORD,
Land Agent, London, Canada West.

January 8, 1864. 1-lt*

LANDS FOR SALE in the Townships of Plympton, Enniskillen, Moore, Sombra, Tilbury East, Goslield, Medonte, Vespra, Tiny, Eldon, Fenelon, Dunmer, Belmont, and Marmora. Also—Town Lots in Peterborough and Owen Sound. The titles are clear and perfect. Apply to the Proprietor.

ANDREW HAMILTON,

Let Lawright Vestralle.

Jarvis St., Yorkville.

AND FOR SALE. -50 or 100 Acres, being North part of Lot No. 37, 3rd Concession Wawanosh. Apply to

GEORGE PEACOCK.

1-It Port Burwell.

A PPALLING FACT:—It is an ascertained and sad fact, beyond dispute, that there is the proportion of about seventeen cases out of twenty cases in Upper Canada, which are before Coroners, Local and Police Magistrates, and Criminal Courts, having their origin and ending in connection with the sale and PUBLIC use of Intoxicating Drinks. And, moreover, however sorrowful the reflection, these same cases are almost entirely, in strict connection, with those of three religious denominations

J. J. E. LINTON. Stratford, C. W., Jan. 2nd, 1864. - 1-1t.

THE FARMERS

Will save money by purchasing whatever

$\mathbf{HARDWARE}$

THEY REQUIRE AT CUR

Establishment

WE especially provide for the Agriculturist-all he wants in our lige for the

. Homestend. The Fleid, The Bush, The House.

IN BUILDING MATERIALS

WE HAVE THE

HEST ASSORTED STOCK IN THE PROVINCE.

At prices to suit every class of customers.

Orders sent by Mail or Express solicited and promptly filled.

RICE LEWIS & SON.

Sign of the Padlock.

Toronto, January 11th, 1864.

1-1t

DO YOU WANT MONEY?

\$25,000 to Lcan!

INTEREST REASONABLE.

TERMS MOST FAVOURABLE.

Expenses Moderate.

AM prepared to negotiate Loans upon Real Estate. payable by instalments, spread over from

One to Ten Years.

At reasonable rate of interest, with privilege of paying back a part of the whole before maturity, deducting interest for unexpired time.

CROWN PATENTS TAKEN OUT WHEN REQUIRED. Letters of inquiry must be pre-paid.

GEO. F. BURROWS.

Dundas, January 9, 1864.

DUNDAS, C. W.

MONEY TO BE LENT on Farm Property, in sum '29 suit borrowers and at moderate interest.

Apply to,

WM. MORTIMER CLARK, Solicitor, &c.

48 King Street East,

Toronto, January 8, 1864.

1-74*

AGENTS ARE WANTED

IN EVERY TOWN, VILLAGE, & TOWNSHIP.

TO SELL BOOKS & the Great NATURAL WEATHER INDICATOR.

For particulars address, P. R. RANDALL

Toronto, January 8. 1864.

ALEXANDER CHRISTIE.

AGENT FOR SECURING PATENTS,

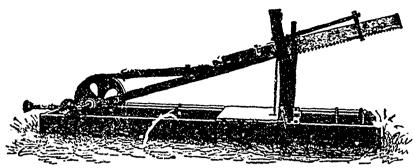
No. 11 King Street West, TORONTO.

Toronto, January 8, 1864.

1-110

TEMPERANCE AND PROHIBITION TEMPERANCE AND PROPHEBITION OF RETAIL.—"THE CHALLENGE"—a Prohibitory Liquor License Paper, is occasionally published by J. J. E. LINTON, of Stratford, C. W., GRATIS. Commenced in April, 1854. Is devoted to the subject of the NECESSITY for a Prohibition of the Retail, in all public places, shops and Larrooms, of Spirituous and Intoxicating Liquors. The issue of the last Number, No. 32, December, 1863, is 5,000. Will Temperance friends in their localities try to circulate, gratis, any Temperance papers? culate, gratis, any Temperance papers?

Japuary 2nd, 1864. 7.74*



PRIZE at the Provincial Exhibition held in Toronto in 1862. It raises the Saw and zigs up the log by 18 own action, and is so simple that a child can operate it. They are not hable to get out of order, and are warranted capable of cutting from 70 to 80 cords of Wood per day.

All orders addressed to us at Ingersoll, C. W., will receive prompt attention.

Ingersoll, January 6, 1861.

J. & S. NOXON.

16 King Stralle.

TMPORTANT TO FARMERS.—Los. Super-Phosphate of Lime a Standard Manure prepared from Bones For all Field and Garden Affairs, can find the best assortment of Agricultural Crops it matures the crops from ten to trenty days Books, &c., at carlier.

AGRICULTURAL BOOKS.—Farmers, Affairs, and all interested in Agricultural Books, &c., at Carlier.

(Testimonial from Mr. Gro. Marriers, Montreal)

Coe's Super-Phosphate of Lime.—Mr. Coe has received the following letter from Mr. Geo. Matthews. a gentleman whose testimony may be taken as conclusive of the value of the excellent fertilizer which Mr. C e has introduced to the attention of the agriculturies of the Paragraphy.

C e has introduced to the attention of the agriculturists of the Province:—
"MONTHEAL, NOV. 3rd, 1863. Mr. Cor., - Dear Sir. I purchased from you last Spring half a ton of your super-Phosphate of Lime. I used it on Indian Corn, Mangolds, Turnips, Carrots and Pumpkins, and at the same time I used a very powerful home made manure on similar roots, corn, &c., the result was, those manured with the home-made fertilizer produced very man craps, but these manured with your Super-Phosphane craps, but these manured with your Super-Phosphane. nue crops, but those manured with your Super-Phos-phate far surpassed them, i., weight, colour and pro-ductiveness generally. I intend for the future to use it liberally.

I am, dear sir. yours truly.
G. Matthews."

Manufactured at Montreal and Toronto by ANDREW COE.

Put up in Barrels containing 250 lbs. each. Offices 38 St. Francois Xavier Street. Montreal.
3 Masonic Building. Toronto St., Toronto. January 8, 1861.

TO DATRYMEN. A Pairy of One Hundred Good Cows, with the right of increase to two burdred, is offered to rent for one or more years. The proprietor will furnish the necessary Buildings, Feed, Pasture, and attendance, and be entitled to the manure and the calves. The tenant to milk the cows, and pay for the milk he gets at a price per gallon to be agreed on, or the proprietor will provide the Cows and Buildings for ayearly price per cow, to be agreed on, and contract to deliver straw, hay and roots, and provide pasture, at fair rates.

on, and contract to deliver straw, hay and roots, and provide pasture, at fair rates.

No one but a thoroughly experienced and successful Butter or Cheese maker need apply; but with a ally competent man, having sufficient means to cargo in the business, a favourable arrangement will be lade. Apply, by letter post paid, to Mr. GLORGE. PROWN, M.P. P., Taronto.

Toronto, January S 1864.

Toronto, January 8, 1864.

EWES WANTED. Wanted Fifty good stock Ewes—Leicesters, pretty well bred. Address, stating ages and price ROBERT GOLLAN care of the Editor of the Canada Farmer, Toronto.

Toronto, January 8, 1861

ST. CATHRARINES NURSERAES.—P.
W. Bradle, Proprietor. Having enjoyed an experience of nearly ten years in connection with the late Dr. Beadle, I hope by careful attention to the wishes of my patrons to maintain the reputation of these celebrated Nurseries. I invite attention to my large Stock of Fruit Trees, Grape Vines, Ornamental Trees, Flowering Shrubs, Plants and Seeds. At the last Exhibition at Kingston I received the First Prize for the best thirty varieties of Apples; the First Prize for the best twenty varieties of Pears, and the First Prize for the best display of Fruit, and trust that these facts will be accepted as an evidence of my determination to furnish articles of first quality. My Salesmen receive a new Certificate every-month. Beware of impostors. Toronto, January 8, 1861 ware of impostors. St. Catharines, January 8, 1864.

Langstroth on Bees,
Quinby on Bees,
French on Farm Drainage.
Barry's Fruit Garden,
Allen's Rural Architecture, 1 00 20 1 20 1 25 Alten's Raral Architecture,
Johnston's Agricultural Chemistry,
Thomas's American Fruit Culturist,
Phin on Grape Culture and Wine Making
Thomson on the Grape,
Dadd's American Cattle Doctor. 1 4

_0 50 1 00 Flax and Hemp. à 25 Tobacco. - -Toronto, January 8, 1864.

SEED AND IMPLEMENT WAREHOUSE.

ESTABLISHED 1836.

AGRICULTURAL HALL, Corner of Yonge and Queen Streets, Toronto.

THE Subscribers by to inform the Farming Com-munity and the Public generally, that they keep an extensive Stock of

Field, Garden, & Flower Seeds, Of the best quality; and in connection with their

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JAMES FLEMING & CO.,

Seedsmen to the Agricultural Association of U. C. Toronto, January 10, 1864

THOROL GIBBRED STOCK FOR SALE.—I have for sale Six Durham and Four trailonay buils, from 9 to 23 months old, and a few Pemales of the above Breeds. Cotswold and Ler-Cemales of the above pressure.

ester Sheep, male and female.

JOHN SNELL.

Edmonton, C. W.

CHEAP LAND. Lot Number Four in the Fourth Concession of Enniskillen, 200 Acres, and the West part of West half of Number fourteen, in the third Concession of Metcalf, 62 Acres - will be sold cheap. Apply to

J. G. HARPER. London, C W.

WINDSOR NURSERIES.—The Stock is very large and finely grown.—I'articular attention is called to the following:—

tention is called to the following:—
DWARF PEARS 2 to 6 years old very fine, best varieties.
DWARF AFFLES 2 to 6 do do do STANDARD AFFLES, extra size, commencing to bear.
Grape Vines, Currants. Roses. Ornamental Trees.
Shrubs, &c.
Will be sold very low. Orders must be sent to the Subscriber, as no agents are employed. Catalogues will be sent to applicants.

JAMES DOUGALL.

JAMES DOUGALL. Windsor, January 9º Y864.

The Canada Karmer, A NEW (FORTNIGHTLY) JOURNAL,

PROSPECTUS

AGRICULTURE, HORTICULTURL,

RURAL AFFAIRS.

THE Subscriber has determined to make the experiment whether a first-class Agricultural Journal can be sustained in Canada. The services of an able agricultural writer as Editor-in-Chief have been secured, and he will be assisted by an efficient Staff of Writers, Reporters, and Correspondents. Firstclass Artists and Engravers have also been retained to prepare Illustrations for the Paper. No exertion or expenditure will be spared to render the new Journal a worthy representative and advocate of the Agricultural interests of Canada.

In the conduct of THE CANADA FARMER, the following ends will be zealously laboured for :-

I -To arouse public attention, by frank and temperate discussion, to all questions scientific, commercial, legislative or otherwise, specially affecting the farming interest.

2.—To stimulate the Agriculturists of our country to adopt an improved system of husbandry, by blending the lessons of modern science with the practical experience of the Canadian Farmer.

3 .- To bring under the attention of our Farmers all improvements at home or abroad, worthy of adoption, affecting the management of Fixed Caors—the Rary rand—the Starts—the Daint-the Orchard-the Poulint Yard-the Ariant-the EMCHEN-CARDEN—end the FLOWIB GLEDEN, and to excite an interest in the progress of Rural Architecture and Landscape Gardening, and in all that concerns the Domestic Economy o' the Farm-house.

.-To mark and report all improvements in Agricultural Machinery-foster new inventions—and promote the adoption of all labour-saving machines in the work of the farm and garden.

-To keep prominently under attention all that specially concerns the Dairy farmer and the Grazier ,—the best breeds of cattle—the best systems of feeding—the most approved process of cheese and butter making—the best mode of packing and the best markets to sell in.

6 .- To keep prominently in view whatever is specially interesting to the Sheep-raiser and Wool-grower—the broods best adapted to our climate—the best systems of winter and summer management-and the varying prospects of the wool

-To afford the Farmers of Canada an over open medium for addressing their brother Agriculturists throughout the Provinos, suggesting matters of common interest and advantage, and eliciting information or advice on practical questions of difficulty or doubt.

8.—To report concisely the Proceedings at Agricultural Shows, Fairs and Sales throughout the Province-note the condition and progress of the Hords and Flocks of prominent Stock-breed ers, record the Importation of Thorough-bred stack from abroad, and publish Engravings of First Class Prize Animais.

and probable prospects of the Produce Markets at home and abroad; and specially promote all movements designed to secure the best prices in the best markets for Canadian Farm Produce.

10.—To afford the Farmers of Canada a common medium where all who have for sale Live Stock, or Seed Grain, or Land, or who may wish to buy such, can make their desires known directly to the shole farming population of Canada.

The Canada Farmer will be published for ONE DOLLAR per annum, POSTAGE FREE, payable urially in advance.

CLUBS

Will be furnished at the following rates: TWELVE COPIES for TEN DOLLARS. FIFTY COPIES forTHIRTY-FIVE DOLO ONE HUNDRED forSIXTY LOLLIRS.

Communications on Agricultural subjects are sayled, addressed to . The Editor of the Canada Furmer," and all orders for the paper will be scat to

GEORGE BROWN,

Turento, Jan. 1, 1864.

Proprietor and Publisher.