Rape culture	Pear and apple blight. 312 Peppermint industry, the 93 Planting evergreens 213	"
for Mr. Gibson	Planting evergreens 213 Plum growing in B. C 530 Potato, diseases of the 214 Potato-growing 52 Potato-growing 52	C
Reconstruction of old roads 474 Road improvement 250 Road rolling 309 Root crops, taking off the 406	Potato scab	
Root harvest, the	Pruning the orchard213 Raspberry and blackberry cul-	D
Rotation of crops	ture	E
Rural schools, agricultural science in	Setting out an orchard185	F
Sacaline not a success	Spraying vs. non-spraying213 The fruit year in Nova Scotia531 Tomatoes, staking253	F
Salt as a remedy 249 Salt on the land 210 Seed time coming 112 Seed time coming 250	What it costs to spray353	F
Silage, good 250 Silo, a big 353 Silo, a cement concrete 8 Silo, another round How to	Young trees, protection of 32	E
Silo at Guelph, harvesting corn for the	HELPING HAND.	I
Silo, a visit to a	A brother farmer helped	HH
silo filling at the Central Experimental Farm	Bags, a handy device for holding.500 Clod crusher 232	H
Sile filling in the NW. T353	Corn binder 16 Corn marker 164 Corn marker, a handy 164 Corn marker, another 189	ŀ
Sile filling in Huron County 330 Sile filling on the Annandale Farm 330 Sile leveling and tramping in	Corn marker, the adjustable width	Ι
Silo, leveling and tramping in the	Dog power	F
Silo, prefers a cement concrete. 70 Silo wall construction, interesting point in	Feed box for colts in the field or yard	I
Sorghum 289 Sorghum sap, extracting 289 Sorghum syrup, big yield and good prices for 309	Gate for snowy countries, a	I
Sorghum syrup, experience in making	Grindstone, a bicycle	
Sow eating pigs, to prevent 163 Sow thistles, eradicating 270 Stables, ventilation of 162	Hog and sheep loader	1
Stock barn, well-arranged	Ice house on the farm, an 53 Improved jack	i
Swine, winter feeding	Land roller	1
Tethering pin. 270 The Agricultural and Experimental Union. 476 The Canadian Horse Show—1896.185	Pig and sheep loader 32 P. O. address wanted 10 Portable hurdle fence 92	1
The farmer's table	Portable hurdle fence	1
Timothy hay	Ram, a hydrulic]
Turnips	Stable scraper]
on	self	
Turnip harvesting, three stages in	Women hands form	1
Two years' experience 91 Uncut corn in a round silo 47	ILLUSTRATIONS	1
Underdraining with tile—How the work is done249	A diploma winning Yorkshire329	1
Vinegar making and evaporating apples	A draft horse parade at the Toronto Show	1
Wagon jack, a good 250 Weeds a benefit 89 Weeds, a good word for 112	Royal	-
Weeds, water in relation to 90 Wheat crop, preparing for another	A group of Brown Swiss females. 45 A group of representative West-	
Wheat experiments, winter309 Winter manuring29, 90	ern beef cattle 45 A high stepper, owned by T. S. Weld, London	
GARDEN AND ORCHARD.	waite and the Shropshire, Barnone	
Apple crop of 1896, notes on the .355 Apple packing	Hackney mare	
Scotia granite	An old Angora goat and a young ewe	
Berry crates, construction of 35 Forestry and forest culture38	Apple - picking in Woodside Orchard, Grafton, the proper- ty of Col. R. Z. Rogers, show-	
Fruit-growers in session 12 Fruit-growers in session 15 Fruit notes from Nova Scotia 272	ing the Page fence erected three years ago	
Fruit production, cold storage and better transportation for 480	other not	1
Grape culture	A Scottish threshing scene 49	
ber 45: Hotbeds 9 How to make a garden on the farm 16:	Toronto Horse Exchange 186 A typical Sussex bull, Saracen 2nd	١
Irrigation 27	A typical Shorthorn group 85 A winner from her Majesty's Shorthorn herd	١
Judging fruits from score cards33 Manitoba Horticultural Society.14	Farm, 1' 4	
Manure	A winning pan, bited by D. J. Lowes, Branch 187	
Onion patch, continuous the	Ayrshires out feet a arade375	

	CONTENTS FOR 1896.	
312	"Calamity Jane," sweepstakes cow in the Ontario Fat Stock	Tra
213 530	Show Dairy Test. Dec., 1895., 25 1	
52 93	Canadian Minister of the Interior, the new	Vie
52 180	G. E. Robinson's "Elbow Park Ranch," Calgary, Al- berta, NW. T	Vie
213	Diploma winning Berkshire sow.329 Driving bees from the box to	Vil
65	the frame hives	Ya
386 333	Fat -tailed hairy Africander	
185 213	sheep	A d
531	First and second prize winners in the aged Shorthorn class328 French-Canadian harvest scene	AfA
353	in Quebec Province534 Fritz Lee, champion Berkshire478	An
32	Half-bred prize winner at Smith- field, a	An
	field, a	Bee
139	Harvesting Gravenstein apples on "Willow Bank" Farm531 Herefords, a typical pair of493	Bed
500	Hiving a swarm	Bre
500	Honey shipping cases	
232 10 164	Horses at water on G. E. Robin- son's "Elbow Park Ranch,"	Ca
164 189	Calgary, Alberta, NW. T526 Inside of barn, showing arrange-	Ca:
164	ment of roof426	"C
189 189	Kilnwick Fireaway, a noted Hackney stallion345 Knight of the Vale, a nonular	Cly
189	Knight of the Vale, a popular English Coach horse265	Do
53	Lock joint chaff hive254 Lord Polworth's Royal Herald, champion of the English Royal of 1898	En
139 500 313	10yar 01 1050	En En
500	Mikado, the great prize-winning Thoroughbred stallion133 "Miss Baker," a typical prize-win-	Fa
52 32	"Miss Baker," a typical prize-win- ning Hackney mare 421 Mr. A. W. Campbell, C.E 207 Mr. E. D. Tilson's farm 268 Mr. G. W. Forrest 528	Hi
92 53	Mr. G. W. Forrest	Но
53	Mr. Robert Davies, Toronto, On- tario	Liv
53	Medal Farm	Ma
32 10	Native maple hedge at Experimental Farm, Brandon, Man. 521	Mo
10 92 139 430	Netherland Consul and Ideal's Lena423 New Brunswick's Secretary for	Ne
10	Agriculture	Po
500	Persimmon, bred and owned by H. R. H. the Prince of Wales, winner of the Derby, 1896 325	Pro
313	winner of the Derby, 1896 325 Portion of plum tree on Experimental Farm, Agassiz, B. C. 530 Poultry at Pine Grove farm 141 Poultry boyes elevet farm 141	
139	1 Touth y house elevation	Sh Sh
. 10	Prize-winning Clydesdale mares from Thorncliffe Farm186 Pure Australian-bred Negretti	Sto
.313	Merino ram	Th
	various stages354	Th
. 329 e	Seventy days' growth167	Th Th To
.401	The Aristocratic Southdown 352 The Farm of Mr. Gairns	Tr Tu
. 351 . 372	The Experimental Farm at Indian Head, Assa., NW. T.522 The '96 graduating class of the O. A. C	U.
.185	O. A. C	w
45	The main building and east wing	
3. ,188	E. view, owned by W. C. Edwards M. P. North Nation	A
1- 2, 448	The new Winning Exhibition	Br
. 157	sheep building	Br Br
.469 g .349	I QUENTER STALLON KALDARN 996	Cl
.187 e	The show-ring and dairy test	Di
r- 7-	winning Holstein Friesian cow, Carmen Sylvia 87 The Standard-bred Clonmore, a	Do
d . 51 e	The Standard-bred stallion Kee	D
$egin{array}{c} 355 \ \mathbf{d} \\ 213 \end{array}$	waydin and two of his set397 The sweepstake Coach horse and	E
.313	The third-prize Shorthorn. 328 The Thoroughbred "Marauder" 369	E
49 ie 186	The Thoroughbred horse, Amster-	F
n . 445	Three representative Costswolds 475	F.
's . 3	breds	Ċ
d st 188	Three representative Lincolns 474	1 13
8, 187	Three representative Oxfords473 Three representative Range	
375	shires	N
1e	Three representative South-	N

	CONTENTS FOR 1896.		December 15.
Pear and apple blight. 312 Peppermint industry, the 93 Planting evergreens. 213	"Calamity Jane," sweepstakes cow in the Ontario Fat Stock Show Dairy Test, Dec., 1895 25	Transferred comb	Perches, the
Plum growing in B. C	Canadian Minister of the Interior, the new	Use of veil and bee smoker293	Poultry diseases and causes 92 Poultry for market
Potato scab. 93 Practical gleanings from Farmers Institutes. 52 Protecting trees from rabbits. 480	G. E. Robinson's "Elbow Park Ranch," Calgary, Al- berta, NW. T	View of the Experimental Farm at Agassiz, B. C	Poultry house
Pruning the orchard	Diploma winning Berkshire sow.329 Driving bees from the box to the frame hives	Yale District, Salmon River Valley, British Columbia525	gestions for the
soil	Fat -tailed hairy Africander	MISCELLANEOUS.	standpoint
Setting out an orchard185 Spraying vs. non-spraying213	sheep	A day at Maple Shade	Poultry, winter management of .431 Plymouth Rocks as layers 310
The fruit year in Nova Scotia 531 Tomatoes, staking 253	the aged Shorthorn class328 French-Canadian harvest scene in Quebec Province534	A famous victory .550 A good furnace 320 A good suggestion 437 American Shorthorn Association	Setting hens
What it costs to spray353 Young trees, protection of32	Fritz Lee, champion Berkshire. 478 Half-bred prize winner at Smith-	at Chicago, meeting of the 513 A monster barn	Turkeys, care of young271 Washing fowls for showing530 Water fountain for poultry—sup-
HELPING HAND.	field, a	ion Swine Breeders' Association	ports for fruit trees
A brother farmer helped 139 Adjustable pens	Harvesting Gravenstein apples on "Willow Bank" Farm531 Herefords, a typical pair of493 Hiving a swarm233	Beet sugar notes	QUESTIONS AND ANSWERS.
Aerator, a cheap	Homemade potato sprayer 430 Honey shipping cases 254 Hon. Sydney A. Fisher 305 Hon. Thos. Greenway 525	362, 393, 437, 461, 489, 512, 513 Breeders' meetings40, 41, 42, 43 61, 66, 76, 79, 80, 82, 83, 219, 263, 277 283, 303	Legal94, 273, 293, 313, 356, 480, 504, 536.
Clod crusher 232 Corn binder 10 Corn marker 164	Hon. W. H. Montague, M.D	Canada Central Exhibition prize	Miscellaneous
Corn marker, a handy	Calgary, Alberta, NW. T 526 Inside of barn, showing arrangement of roof	list	536. Veterinary12, 35, 54, 72, 94, 119, 142, 167, 191, 214, 233, 254, 293, 313,
Dog power	Kilnwick Fireaway, a noted	tary's annual report of the	334, 356, 384, 455, 504
Feed box for colts in the field or	Knight of the Vale, a popular English Coach horse265	American	SHOWS AND SHOWING.
yard	Lock joint chaff hive254 Loru Polworth's Royal Herald, champion of the English Royal of 1896351	ciation .550 English Hackney sales .367 English Shrop-hire sales .398	At the Commercial Metropolis354 A welcome for breeders at the Western Fair311 Canada's favorite—The Western
Grindstone, a bicycle	Mikado, the great prize-winning Thoroughbred stallion	English Southdowns for U. S. shows	Fair, London
methods 430, 500 Hog and sheep loader 52 Hog trough, a handy 32 Horse power, a homemade 92	ning Hackney mare 421 Mr. A. W. Campbell, C.E. 207 Mr. E. D. Tilson's farm 268 Mr. G. W. Forrest 528	pany, the	breeders and other exhibitors.311 Central Canada Fair290 How to win334
Ice house on the farm, an 53 Improved jack	Mr. Henry Wade	Horse sales in New York	Large and small shows311
Land roller 20	Mr. Simpson Rennie's Gold Medal Farm	Live stock shipments of 1896 from Montreal	Montreal to the fore
Nest box to avoid egg-eating 53 Pig and sheep loader 32	Native maple hedge at Experimental Farm, Brandon, Man.524	Madison Square Live Stock Show464 Montreal Provincial Exhibition	Should we have fewer shows290 The glory of the West334
P. O. address wanted 10 Portable hurdle fence 92 Portable wire fence 139 Potato sprayer, a homemade 430	Netherland Consul and Ideal's Lena	Pelant China	The Ottawa show
Ram, a hydrulic	New Year's at the old homestead 1	Poland-China records512 Premiums438, 462, 463, 486, 487 Prince of Wales' stock at auc-	progress
Stable scraper	Persimmon, bred and owned by H. R. H. the Prince of Wales, winner of the Derby, 1896 325 Portion of plum tree on Experi-	tion	STOCK.
self	mental Farm, Agassiz, B. C. 530 Poultry at Pine Grove farm	Sheep Breeders' Convention550 Sheep husbandry in New Bruns- wick	Action a necessary quality 5 A cure for hog cholera
Wagon, handy farm	from Thorncliffe Farm186 Pure Australian-bred Negretti Merino ram353	South America still buying399 Stock-breeders annual meetings.519 The Advocate and advertisers	An appreciative letter 3 As viewed from a British stand- point 29 A typical Hampshire 288
ILLUSTRATIONS.	Queen cells and worker brood in various stages	both endorsed	Australian tick plague, the 426 Ayrshire matters 247 Beef cattle industry, the 449
A diploma winning Yorkshire329 A draft horse parade at the Toronto Show401	Seventy days' growth	The Warble fly 99 Toronto Industrial Fair prize list 414 Trade with South America 283	Better every year
Aggie Grace, champion Short- horn female at the English Royal	The Experimental Farm at Indian Head, Assa., NW. T.522 The '96 graduating class of the O. A. C	Tuberculosis in milk	Blue-grays are popular, why 161 Blue-grays, is a new breed needed. 136 Breeders' annual meeting 68
A great saddle beast from Mt. Forest, N. Y	The great Hackney Jubilee Chief	Western Fair prize list417	Breeders' meetings
A group of representative Western beef cattle 45 A high stepper, owned by T. S.	The main building and east wing in course of erection from N	POULTRY.	Caked udder
Weld, London	E. view, owned by W. C. Edwards, M. P., North Nation	A farm poultry house252	market
waite and the Shropshire, Barnone	The new Winnipeg Exhibition sheep building	Breeders and layers for next season, choosing your 332 Broiler management 212 Broiler raising 52, 71	Cattle embargo, Prof. Williams on the
A new stock barn	The renown d imported Thoroughbred stallion, Kilburn. 226 The Shorthorn sweepstake cow competition	Chicken cholera	Champion cow. the—Mr.Glennie to Messrs. Rice
prize-winning Roadsters187 Apple - picking in Woodside Orchard, Grafton, the proper- ty of Col. R. Z. Rogers, show-	The show-ring and dairy test winning Holstein Friesian cow. Carmen Sylvia	Distemper in fowls, followed by roup	of
ing the Page fence erected three years ago	The Standard-bred Clonmore, a progenitor of speed and beauty	Duck culture 33 Ducklings, fattening 408 Ducks, raising 431	another criticism of
Apples picked from sprayed trees	The sweepstake Coach horse and three of his set	Eggs, more and better 252 Eggs, preserving 454 503	Dairy cattle, a judge's suggestion to exhibitors of
A Scottish threshing scene 49	The Thoroughbred horse, Amster-	Egg tester, a cheap252	show
A stylish unicorn team from the Toronto Horse Exchange 186 A typical Sussex bull, Saracen 2nd	The winners in the aged Clydes- dale stallion class	Flocks on a paying basis, put	Dehorning calves
A winner from her Majesty's Shorthorn herd	breds		Drying beef in South America. 288 Embargo, a permanent
harness class from Hillhurst	Three representative Lincolns. 47. Three representative Merinos. 47. Three representative Merinos. 47.	Laying hens, whole vs. ground	Every copy highly prized497 Ewe flock, the
A winner in the saddle class, owned by S. Waller 187 A winning pan, bited by D. J. Lowes, Brain 187 Ayrshires out 16 373	lambs	Market wanted for early birds332 Moulting season, the 408	Fat stock show at Guelph, Ont., the
Before the grand stand at the	shires 47: Three representative South- downs 47: Three representative Suffolks 47:	Nine ways for a lab hens lay 52 Notes on tradition again a construc-	Fattening cattle, the economical use of grain in

	Perches, the
	Poultry on the farm
	Turkeys, young
	QUESTIONS AND ANSWERS. Legal94, 273, 293, 313, 356, 480, 504, 536.
	Miscellaneous13, 35, 54, 72, 94, 119, 142, 168, 191, 233, 254, 273, 293, 333, 356, 384, 408, 433, 455, 480, 504, 536.
	Veterinary12, 35, 54, 72, 94, 119, 142, 167, 191, 214, 233, 254, 293, 313, 334, 356, 384, 455, 504 SHOWS AND SHOWING.
	At the Commercial Metropolis354 A welcome for breeders at the Western Fair311
	Canada's favorite—The Western Fair, London
	How to win
	Origin of agricultural fairs
2	Toronto's great exhibition now in progress
	Action a necessary quality 5 A cure for hog cholera 531 ADVICATE, preserve the 4 An appreciative letter 3 As viewed from a British standpoint 29 A typical Hampshire 288 Australian tick plague, the 426 Ayrshire matters 247
1	Beef cattle industry, the
3 6	Blue-grays are popular, why 161 Blue-grays, is a new breed needed. 136 Breeders' annual meeting 68 Breeders' meetings 88 Breeds of sheep in relation to soils, markets and crops 248
2	Caked udder 161 Calves, care for the 307 Canadian horses for the British 267 Canadian live stock husbandry 523 Care of the fool 288
2 2 1 8 3	Care of the foal
1 1 3 8 1	Champion Shorthorns, a pair of
1 2 3 2	Dairy cattle, a judge's suggestion to exhibitors of
1 32 01 08	approved
66	Embargo, a permanent
32 08 52	Fat stock show at Guelph, Ont., the
66	Foal, the

Glasgow spring stall
Manitoban's opini
Good demand for goo
Good heavy mares no
Good Roads Associati
Grooming cows, the b

December 15.

Hackneys, 1896.
Half-bred wethers, a phalter-breaking shown Harness galls.
Has no equal.
Heavy drafts, good so thock in horse breeding the surgery surgery.

Hook in horse breeding Home surgery...
Horse breeding, its proceeding practions in ...
Horse breeders' mee the Toronto Fair Horseshoeing examing thorses, winter care of Horse show, the Bos Horse show, the Ham Horse supplies light, How to buy a horse

Judging at fairs.....

Lambs, treatment of Light horses scarce, Lincoln is preferred, Live stock husband Dominion E Farm staff..... Live stock interests. Live stock, ocean car Live stock quaranting

Morethan Shrops, in Mutton breeds, a con Mutton test, that Mutton test by P details of the....

New Brunswick bree New York horse s the—its notable f New Year's greetin land, a......

Old London's meat s Ontario Creameries Ontario Fat Stock S Our extra illustrati Our illustration....
Our new picture....
Our Scottish letter
188, 208, 229, 268,

Parliament and the Parasites of the dom

Prince Edward Isla Provincial fat stock view of former

Rape, precautions i Register pure-bred Reply to Mr. Dun mas article in Gazette . . . Rinderpest in Soutl Royal Herald, the b

Takes the first pla Tar-brauding of si The Bath and Wes The best farmers' The Fat Stock Si Ont.... The 2.10 list up to The portfolio of as