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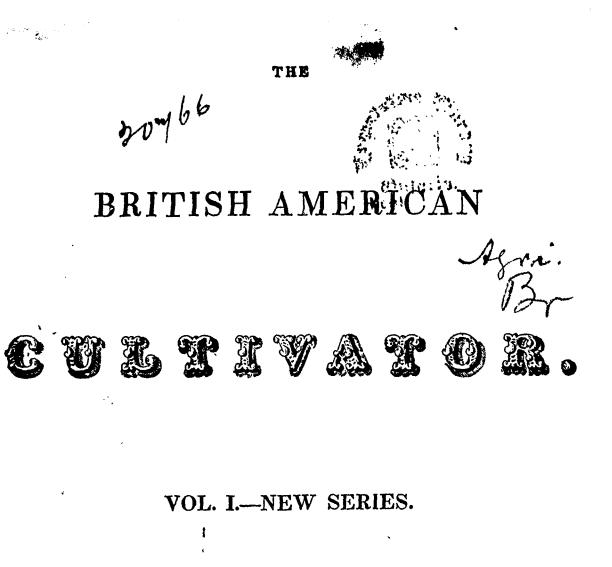
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CONTENTS.

Page	' Pa	ge
	2	
	2	!45
	2	:53
Apples, preservation of 10 A log loader	2	274
Agricultural surveys and reports 12 Agricultural anecdote	2	277
A word to agricultural correspondents . 15 Agriculture in Lower Canada .	2	281
Agricultural clubs	. 33, 3	100
Artichokes, cultivation of	3	310
Artichokes, cultivation of	itain . 3	362
Agricultural club, Newmarket 42, 68		
Agricultural education	• •、	16
Agricultural societies in the County of Borrowing		30
Durham		52
Durham	93, 1	
Agricultural societies in Prince Edward Black ink improved	. 94, 1	
District		94
Agricultural papers and agricultural writers. 86 Blue ink		94
A Delaware farm	-	94
A Delaware farm		103
Apple butter		115
Agricultural society of Whitby 107 Bees, management of		121
Agricultural societies, Government patron- Burns, cure for.		122
age of		126
Agricultural chemistry taught in schools . 108 Barley, cultivation of		130
Agricultural addresses by I, S. Skinner . 112 Buttons, manufacture of		158
Arrow root, how to make		163
Artificial grasses		186
Address by Daniel Lee		190
Agricultural papers increase the wealth of a Balls for removing paint and grease sp		190
country]	190
	• • •]	190
Apple, culture of		190
Agricultural papers should be patronized by Black for miniature painting .		190
the Legislature		190
Advice to mothers		190
Acid for dyeing	. 221, 9	
Agriculturists should be well educated . 176 Broom corn		227
Agriculture	. 247,	
Arrow root, a substitute for 190 Bees, to preserve from worms .		
A burn or scald	. 287,	
A burn or scald		568
Agricultural statistics of France and England 221 Bottle cement	• •	372

CONTENTS.

1	Page	1	Zage
Brown or Red Cheese	276	Choked Cattle, relief of	188
Butter	278	Composition for colouring walls	189
Bridles	281	Chilblains.	191
Blight in Pear Trees	282	Chin or whooping cough.	191
Bee, a Cure for Sting of	283	Cholera Morbus	191
Bed Bugs, to destroy Black Varnish	285	Cheesecake	207
Black Veils, to clean	285	Currant ice water	211
Bleeding of a Wound	285	Canada corn hill	202
Black Paint	285	Cement, cheap and durable	221, 253
Blistering Ointment for Cattle	286	Cleaning silk	249
Blistering Plaster	286	Colic, a cure for	253
Bladders, to prepare for use	286	Chinese cultivation and implements.	254
Barometer Broom Corn	281	Crading	269
Buckwheat.	201	cultural Society	Agii- 271
Bran Beer	295	Coffee, to improve the flavour of.	273
Blasting Rocks	297	Crops, real value of	280
Bread, to make good	315	Coadjulated blood, to dissolve	284
Buckwheat Cakes	315	Cisterns	296
Bathing beneficial to health	317	Colic in horses	310
Burn, a cure for	339	Canker-worm, a cheap remedy	318
Bee Hive.			329 329
Bern Yards	330	Clod Crusher	330
Cure for the Distemper in Cattle	2	Cherry bough, poisonous	339
Cut Worms		Cultivation of the Gooseberry	361
Cut Worms. Chemistry made easy for the use of the Ag-		Coin and cob crusher	364
riculturist		Clover Mills	365
Curing and Packing Provisions	24		
Curing of Hams and Bacon		Do the producers or non-producers rul	A A
Cranberries		Duties of parents	1.12 197
Candles that do not require snuffing		Distemper in cattle Dressing wounds and ulcers	123, 187 221
Compound for Fattening Cattle Cotton Beds		Diarrhoea or scours in calves	252
Cement, fire and water proof.		Diarrhoea, a cure for	314
Cure for chopped hands and lips		Drop cakes	315
Coal Dust for Strawberries	115	Dibbling machine	328
Composition for preserving Paint	115	Deep ploughing	360
Chimneys, the draught of	116		156
Candles, to improve the wicks of	119	Ewes and lamos	156 158, 222
Cure for Croup Copper cooking utensils injurious	192	Eggs, 10 preserve	203
Cheese, to pot	153	English farming	251
Cure for Corns 125,	253	Early rising	284
Clothes, to perfime	126	Essential oils, a test of	285
Culture of Carrots	132	Encyclopædia of domestic economy	327
Clover,	134	English Royal Agricultural Society	345
Cherries	147	772 let ester after Turker A	m
Capital in Farming	156	Finit Trees, bruning of	40 75
Cleanliness Cement for stopping fissures in iron vessels.	100	Fruit, cultivation of	84
Cider, to prevent from fermenting	159	Female education.	88
Cheese for premiums	159	Fistula in horses, cure for	89, 119
Canada Thistles	162	Food for cows,	90
Correspondents to agricultural papers	165	Fly in sheep,	94
Crops, prospect of	166	Fruit Trees, to preserve from mice	
Corn-stalk Sugar 172, 232,	311	Fruit Trees, to force to bear	116
Curcalio, lime cure for	175	Flax culture,	122
Chemical analysis, red rest	119	Fruit Trees, altections for rearing	146, 185
Celery, cultivation of	102	Fruit Trees, from seed	148
Colic in Horses 183, 185, Cement and whitewash	184	Farmer and chemist,	157
Coment	186	Flies, to kill	111, 277
Compost for sandy land 188,	223	Flax, cultivation of	197, 228

.

	Page	1. Page
Film, to remove from the eye		Hemp, water rotted
Feeding of animals	211	Hints to young men
Road of grops a dialogue	218	Habits of domestic animals
Privit suggestions on the cultivation of	234	Homepathetic treatment of horses
Fences, on the management of	243	Hydrophobia
Foot Rot,	276	Hanging the scythe
Fruit, to preserve fresh for a year 28	3. 311	Hydraulic cement
	314	Hollow horn
		Hay, properties of for producing milk 298
	341	Individual offense 1.6
	345	Individual effort
		Importation of Canadian Four in England . 15 Improved breeds of horned cattle 36
Farm of James Gowen,	··· 3/3 970	Industry 69
Fistula and Poll Evil,	314	Industry 62 Itch ointmeut
Guano,	3	Irrigation.
	7	Irrigation
Gapes in chickens, 1	1. 94	Inoculation or budding
	27	Interesting agricultural experiments 250
Guinea Goose.	47	Indian slap jacks
Good yield of butter	51	Iron fanning mill
		Inflammation of the palate, lampas 283:
Grubs in horses, curé for	87	Incombustible paint
Guano, to ascertain the quality of	91	Indian corn
Growth of hair and baldness prevented	94	Influence of knowledge upon agriculture . 307
Grafting	94	Indian meal cakes
Gore District Agricultural Society	114	Ice houses
Glanders, cure for	119	
Grapes, cultivation of	147	Japan for boots and shoes 119
Greatest amount of produce from a give	en 🛸	Jelly, method of making 276
Sunace	178	Keep the best stock
Good butter cow	188	Keep the best stock
Gooseberry	217	Kindness to animals 243
Grafting the chesnut on the oak	241	Tomonoo of a house will be
Grafting enrrants	252	Lameness of a horse, splints *14 Linseed as food 79
Gingerbread, very nice	313 : 910 !	Linseed as food
Good breeding	240	Lucerne 134
		LIPSO COLOUR INGREGIENTS for a set 1500
Home District Agricultural Society	47	Lard 188
Hints to young men		Lamp Black 189
Hen house	. 57	Lemon or orange water
Horse, management of		Lime to destroy slugs 253
Horse, how to treat on a journey		Letters on agricultural improvement 264
Horse, different modes of driving		Large chests 280
Hens, to protect from vermin	• 614	Labels 281
Hove in cattle, remedy for		Locomotive power 283
Home District Agricultural Society, annu		Lime and its compound for agriculture 132
meeting of	. 82	Liquid manure 348
Health and comfort		
Fints to farmers		Manual labour schools 12
		Melons, manure for 23
Horses, management of	• 124	Model farms
Hemp grown in the Western States	. 125	Manure with lime
		Mercantile and General Agricultural Im-
Hiccough	- 120	provement Society of the Johnstown District 10, 78, 144
Health and comfort	157	District 10, 78, 144 Mechanics' wives 89
Hams to huil	150	Maxims of Bishop Middleton 89
Hamilton County A griaultural Sociate	169	Mile, the length of in different countries 92
Hewthorn lences	1681	Manuring and steeping of seeds
Hama, mode of emoling 190	. 200	Magnetic electro light
Hav-making	j j g a	Maize ' 130
Hoof ail	214	Magnetic electro light
Heging razora	. 215	Mushraoms, method of growing, 150, 153, 252
		en in the second s

۰. ۱

CONTENTS.

		F	age			Page
Mercurial ointment			155	Plank floors injurious to horses -	-	- 316
Mustard in convulsions	•	•	158	Purple copal varnish- Pickling eggs Proportion of butter in milk - Pine apple cheese Profitable farming Pickle for meat Prevention of smut		. 331
Murrain in cattle	•	•	160	Pickling eggs	-	339
Mildew . r Manure versus good cultivation,	٠	•	187	Proportion of butter in milk -	• •	· 348
Manure versus good cultivation,	•	•	188	Pine apple cheese		- 360
Meadow lands, management of.	٠	٠	236	Profitable farming	-	- 361
Making compost	٠	•	141	l'ickle for meat	-	- 361
Murrain or red water in cattle .	٠	٠	243	Prevention of smut		372
Missouri cave . Mode of measuring a standing tree	٠		2131			
Mod itch	٠	•	202	Quince, cultivation of Quinsy, cure for	- 100	- 147
Mad itch	٠	•	295	Quinsy, cure for	- 189,	253
Manure action of on soils	٠	•		Repeal of the British Corn Laws		40
Mount Hope Botanic Gardens	•	•	250	Ring worm, a ours for	-	- 40 - 75
Manure, action of on soils . Mount Hope Botanic Gardens . Muffins .	•	٠	377	Ring worm, a cure for Red ink for writing	-	
Native American grape New York Farmer and Mechanic Nutritive qualities of tea Never lose any thing, never forget an Nankin dye Nightmare, to prevent Natural bee hive. New York State agricultural society of	•	•		Rhuberh, cure for dearrhose	_	- 34
Native American grane	_		31	Rutabaga	-	. 129
New York Farmer and Mechanic	•	٠	81	Rasherries	-	- 147
Nutritive qualities of tea			92	Rasherry syruo	-	. 159
Never lose any thing, never forget an	v ť	hing	117	Rasherry iam	-	- 156
Nankin dve	а.		158	Rose, to change the color of -	-	- 315
Nightmare, to prevent			159	Rats, to get rid of	- 183.	254
Natural bee hive.	÷	Ż	315	Rats, to poison		- 184
New York State agricultural society	, re	port		Roses, management of	-	- 185
of			320	Rennet or wine custard	-	- 190
Nitrate of soda on grass lands .		•	349	Ring bone in horses	-	- 299
				Royal agricultural society of Engla	nd 164	. 328
Oil which never corrodes or thickens	-	•	-94	Report of the New York State agri	cultura	1
Orchard grass	-	-	253	exhibition Reaping machines	-	- 364
Orchards, soils and situations for	-	•	3.12	Reaping machines	-	- 364
				Revolving hay rakes	-	- 365
Price of labor	-	-	8	Revolving hay rakes Rotation of crops 170, 31	5, 340	, 368
Provincial agricultural society -	-		-16			
Potatoes, how to get new varieties o	f-	-		Suggestions to farmers' sons -		
Potatoes, how to get new varieties of Potatoe, comparative value of -	1-		62	Saltnetre on seeds and plaster on flo	wers	- 29
Potatoes, how to get new varieties of Potatoe, comparative value of -	1-		62	Saltnetre on seeds and plaster on flo	wers	- 29
Potatoes, how to get new varieties of Potatoe, comparative value of -	1-		62	Saltnetre on seeds and plaster on flo	wers	- 29
Potatoes, how to get new varieties of Potatoe, comparative value of -	1-		62 77 81 94	Saltpetre on seeds and plaster on flo Subsoil ploughing Sunburns and chilblains Shoe blacking	wers - 53 -	- 29 , 242 - 55 . - 57
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of		- - - -	62 77 81 94 130	Saltpetre on seeds and plaster on flo Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men -	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure for Potatoes, culture of Parsnip, cultivation of	1-		62 77 81 94 130 133	Saltpetre on seeds and plaster on flo Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure for Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits -		- - - - -	$62 \\ 77 \\ 81 \\ 94 \\ 130 \\ 133 \\ 145$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure for Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of		- - - - -	62 77 81 94 130 133 145 146	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Peach, culture of			$\begin{array}{c} 62 \\ 77 \\ 81 \\ 94 \\ 130 \\ 133 \\ 145 \\ 146 \\ 146 \\ 146 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Show blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs Silk culture	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Peach, culture of Plums, culture of			$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 133\\ 145\\ 146\\ 146\\ 146\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Show blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs Silk culture Sheep, pine boughs for	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Potatoe onions			$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 133\\ 145\\ 146\\ 146\\ 146\\ 152 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Sheep, pine boughs for Soils, nature of	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Plums, culture of Potatoe onions Pie plant			$\begin{array}{r} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 146\\ 152\\ 156\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Silk culture Sheep, pine boughs for Soils, nature of Slander	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118 - 121
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Plums, culture of Potatoe onions Pie plant Parsnip wine			$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 133\\ 145\\ 146\\ 146\\ 146\\ 152\\ 156\\ 177\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Sheep, pine boughs for Sheep, pine boughs for Soils, nature of Slander	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118 - 121 - 134
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Peach, culture of Plums, culture of Potatoe onions Pie plant Parsnip wine Potash, best wood for -			$\begin{array}{r} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 189\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Sheep, pine boughs for Sheep, pine boughs for Soils, nature of Slander Steeping seeds	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118 - 121 - 134 - 139
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Plums, culture of Potatoe onions Pie plant Parsnip wine Potash, best wood for - Production of different States -			$\begin{array}{r} 62\\ 77\\ 81\\ 130\\ 133\\ 145\\ 146\\ 146\\ 156\\ 156\\ 177\\ 182\\ 186\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Sheep, pine boughs for Sheep, pine boughs for Soils, nature of Slander Sinfoin Steeping seeds Seeds, selection of	wers - 53 - - -	$\begin{array}{cccc} & 29 \\ & 242 \\ & 55 \\ & 57 \\ & 77 \\ & 83 \\ & 91 \\ & 93 \\ & 93 \\ & 93 \\ & 94 \\ & 118 \\ & 121 \\ & 134 \\ & 139 \\ & 153 \end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Potatoe onions Pie plant Potash, best wood for - Production of different States - Poll evil			$\begin{array}{r} 69\\ 77\\ 81\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 189\\ 273\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Silk culture Sheep, pine boughs for Soils, nature of Slander Steeping seeds Steeping seeds Shelter for stock	wers - 53 - - - - - - - - - - - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118 - 121 - 134 - 139 - 153 - 157
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Plums, culture of Potatoe onions Pie plant Potash, best wood for - Production of different States - Poll evil		189,	62 77 81 130 133 145 146 146 159 156 177 1896 273 190	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep fly Silk culture Sheep, pine boughs for Soils, nature of Slander Stanfoin Steeping seeds Seeds, selection of Shelter for stock Strawberries	wers - 53 - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118 - 121 - 134 - 139 - 153 - 157 - 226
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book - Portable thrashing machines - Piles, cure tor Potatoes, culture of - Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of - Plums, culture of - Potatoe onions - Pie plant - Potatoe onions - Pie plant - Potash, best wood for - Production of different States - Poll evil - Peach growers, memorandum for		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 133\\ 145\\ 146\\ 152\\ 156\\ 177\\ 182\\ 273\\ 190\\ 194\\ \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep, pine boughs for Sheep, pine boughs for Soils, nature of Slander Stanfoin Steeping seeds Steeds, selection of Shelter for stock Strawberries Summer fallows	wers - 53 - - - - - - - - - - - - -	- 29 , 242 - 55 - 57 - 77 - 83 - 91 - 93 - 93 - 93 - 94 - 118 - 121 - 134 - 139 - 153 - 157
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Plums, culture of Potatoe onions Pie plant Potash, best wood for - Production of different States - Poll evil		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 182\\ 273\\ 190\\ 194\\ 207\\ \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Silk culture Sheep, pine boughs for Soils, nature of Slander Steeping seeds Steeping seeds Steeds, selection of Shelter for stock Strawberries Strawberries Science and practice of agriculture	wers - 53 - - - - - - - - - - - - -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book - Portable thrashing machines - Piles, cure tor Potatoes, culture of - Parsnip, cultivation of - Prince's catalogue ot fruits - Pears, culture of - Plums, culture of - Potatoe onions - Pie plant - Potatos, best wood for - Production of different States - Poll evil - Paste blacking - Plants. watering -		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 133\\ 145\\ 146\\ 152\\ 156\\ 177\\ 182\\ 273\\ 190\\ 194\\ 207\\ 207\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Sheep, pine boughs for Sheep, pine boughs for Soils, nature of Slander Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Strawberries Steince and practice of agriculture Sheep protection from wolves -	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ 9 & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 93\\ - & 93\\ - & 93\\ - & 121\\ - & 134\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 226\\ - & 161\\ - & 167\\ - & 171\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book - Portable thrashing machines - Piles, cure tor Potatoes, culture of - Parsnip, cultivation of - Prince's catalogue ot fruits - Pears, culture of - Plums, culture of - Potatoe onions - Potatoe onions - Pie plant - Potash, best wood for - Production of different States - Poll evil - Paste blacking - Pant - Paste blacking - Proud flesh, to remove -		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 182\\ 973\\ 190\\ 194\\ 207\\ 211 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Sheep fly Silk culture Sheep, pine boughs for Soils, nature of Slander Steeping seeds Steeping seeds Steeds, selection of Shelter for stock Strawberries Strawberries Science and practice of agriculture	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ 9 & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 93\\ - & 93\\ - & 93\\ - & 121\\ - & 134\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 226\\ - & 161\\ - & 167\\ - & 171\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book - Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue ot fruits - Pears, culture of Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Preservative composition - Potatoe roots Potatoe roots Potatoe roots Potain rusk pudding -		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 189\\ 273\\ 190\\ 194\\ 207\\ 211\\ 229\\ 211\\ 2292 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Silk culture Sheep, pine boughs for - Soils, nature of Slander Stanfoin Steeping seeds Steeping seeds Shelter for stock Strawberries	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ - & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 94\\ - & 118\\ - & 121\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 226\\ - & 161\\ - & 167\\ - & 171\\ - & 171\\ - & 175\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book - Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue ot fruits - Pears, culture of Plums, culture of Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Paste blacking Proud flesh, to remove - Protatoe roots		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 189\\ 273\\ 190\\ 194\\ 207\\ 211\\ 222\\ 269\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Silk culture Sheep, pine boughs for - Slander Slander Steeping seeds Steeping seeds Steeping seeds Shelter for stock Strawberries	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ - & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 94\\ - & 118\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 226\\ - & 161\\ - & 167\\ - & 171\\ - & 171\\ - & 175\\ - & 176\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of Prince's catalogue ot fruits - Pears, culture of Plums, culture of Potatoe onions Potatoe onions Potatoe onions Parsnip wine Potash, best wood for - Production of different States - Poll evil Paste blacking Proud flesh, to remove - Protatoe roots Plain rusk pudding - Plam pudding for the million - Potatoe picker		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 287\\ 194\\ 207\\ 211\\ 297\\ 207\\ 211\\ 222\\ 269\\ 271 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Silk culture Sheep, pine boughs for - Slander Slander Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Strawberries Strawberries Statistics of canals and railroads in ted States Sore teats Salt as a manure	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ - & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 94\\ - & 118\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 226\\ - & 161\\ - & 167\\ - & 171\\ - & 175\\ - & 176\\ - & 180\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of Prince's catalogue of fruits - Pears, culture of Plums, culture of Potatoe onions Potatoe onions Parsnip wine Potash, best wood for - Production of different States - Poll evil Paste blacking Proud flesh, to remove - Prostatoe roots Potatoe roots Plain rusk pudding Plam pudding for the million - Potatoe picker		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 287\\ 194\\ 207\\ 211\\ 297\\ 297\\ 297\\ 275\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Sheep, pine boughs for Sheep, pine boughs for Shander Slander Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Strawberries Statistics of canals and railroads in ted States Sore teats Snut, rust, and choss Sheep, diseases of	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ - & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 94\\ - & 118\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 161\\ - & 167\\ - & 171\\ - & 175\\ - & 176\\ - & 181\\ \end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of Prince's catalogue of fruits - Pears, culture of Plums, culture of Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Proud flesh, to remove - Preservative composition - Potatoe roots Plain rusk pudding Plain rusk pudding Plain pudding for the million Pickling cabbages		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 207\\ 207\\ 211\\ 209\\ 275\\ 277\\ 275\\ 277\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Sheep, pine boughs for - Sheep, pine boughs for - Slander Slander Steeping seeds Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Strawberries Statistics of canals and railroads in ted States Sore teats Snut, rust, and choss - Salt as a manure Steep, diseases of Steep, diseases of	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} - & 29\\ - & 242\\ - & 55\\ - & 57\\ - & 77\\ - & 83\\ - & 91\\ - & 93\\ - & 93\\ - & 94\\ - & 118\\ - & 121\\ - & 134\\ - & 139\\ - & 153\\ - & 157\\ - & 161\\ - & 167\\ - & 171\\ - & 175\\ - & 176\\ - & 180\\ - & 181\\ - & 189\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of Prince's catalogue of fruits - Pears, culture of Potatoe onions Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Preservative composition - Protatoe roots Plain rusk pudding Plain rusk pudding Plain pudding for the million - Potatoe picker Pain in the stomach from indigestion		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 146\\ 152\\ 156\\ 177\\ 286\\ 273\\ 297\\ 211\\ 215\\ 292\\ 275\\ 286\\ 277\\ 286\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Steam hammer Sheep fly Sheep fly Sheep, pine boughs for Shilk culture Shep, pine boughs for Slander Stainfoin Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Statistics of canals and railroads in ted States Sore teats Snut, rust, and chass - Salt as a manure Sausages	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} & 29\\ & 242\\ & 55\\ & 57\\ & 57\\ & 91\\ & 93\\ & 93\\ & 93\\ & 93\\ & 93\\ & 94\\ & 118\\ & 121\\ & 139\\ & 153\\ & 157\\ & 226\\ & 161\\ & 167\\ & 171\\ & 175\\ & 166\\ & 181\\ & 189\\ & 190\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Proud flesh, to remove - Preservative composition - Potatoe roots Plain rusk pudding Plain rusk pudding Plain states - Potatoe picker Procrastination - Pickling cabbages Pain in the stomach from indigestion Potatoe root		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 146\\ 152\\ 156\\ 177\\ 286\\ 273\\ 190\\ 297\\ 211\\ 290\\ 211\\ 292\\ 275\\ 286\\ 295\\ 295\end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Sheep, pine boughs for - Shik culture Sheep, pine boughs for - Slander Stanfoin Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Strawberries Statistics of canals and railroads in ted States - Sore teats Snut, rust, and chass - Salt as a manure Sheep, diseases of Sausages Soap, mode of making -	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} & 29\\ & 242\\ & 55\\ & 57\\ & 57\\ & 91\\ & 93\\ & 93\\ & 93\\ & 94\\ & 118\\ & 121\\ & 139\\ & 153\\ & 157\\ & 226\\ & 161\\ & 167\\ & 171\\ & 175\\ & 160\\ & 181\\ & 189\\ & 190\\ & 203\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Plums, culture of Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Proud flesh, to remove - Preservative composition - Potatoe roots Plain rusk pudding Plain rusk pudding Plain states - Plain rusk pudding Plain in the stomach from indigestion Potatoe root Paint, to make durable -		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 286\\ 273\\ 297\\ 194\\ 297\\ 291\\ 295\\ 295\\ 295\\ 306 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Steam hammer Sheep fly Spotted disease in pigs - Sheep, pine boughs for - Soils, nature of Shander Stanfoin Steeping seeds Steeping seeds Steeping seeds Steads, selection of - Strawberries Strawberries Strawberries Strawberries Statistics of canals and railroads in ted States - Sore teats Salt as a manure - Sheep, diseases of - Scab in horses - Soap, mode of making - Sting of a bee	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} & 29\\ & 242\\ & 55\\ & 57\\ & 57\\ & 91\\ & 93\\ & 93\\ & 93\\ & 93\\ & 94\\ & 118\\ & 121\\ & 139\\ & 153\\ & 157\\ & 226\\ & 161\\ & 167\\ & 171\\ & 175\\ & 166\\ & 181\\ & 189\\ & 190\\ & 203\\ & 207\end{array}$
Potatoes, how to get new varieties of Potatoe, comparative value of - Practical receipt book Portable thrashing machines - Piles, cure tor Potatoes, culture of Parsnip, cultivation of - Prince's catalogue of fruits - Pears, culture of Potatoe onions Potatoe onions Potatoe onions Potash, best wood for - Production of different States - Poll evil Paste blacking Proud flesh, to remove - Preservative composition - Potatoe roots Plain rusk pudding Plain rusk pudding Plain states - Potatoe picker Procrastination - Pickling cabbages Pain in the stomach from indigestion Potatoe root		189,	$\begin{array}{c} 62\\ 77\\ 81\\ 94\\ 130\\ 145\\ 146\\ 146\\ 152\\ 156\\ 177\\ 286\\ 273\\ 297\\ 194\\ 297\\ 291\\ 295\\ 295\\ 295\\ 306 \end{array}$	Saltpetre on seeds and plaster on fio Subsoil ploughing Sunburns and chilblains - Shoe blacking Sound advice to business men - Steam hammer Sheep fly Spotted disease in pigs - Sheep, pine boughs for - Shik culture Sheep, pine boughs for - Slander Stanfoin Steeping seeds Steeping seeds Shelter for stock Strawberries Strawberries Strawberries Statistics of canals and railroads in ted States - Sore teats Snut, rust, and chass - Salt as a manure Sheep, diseases of Sausages Soap, mode of making -	wers - 53 - - - - - - - - - - - - -	$\begin{array}{c} & 29\\ & 242\\ & 55\\ & 55\\ & 57\\ & 91\\ & 93\\ & 93\\ & 93\\ & 94\\ & 118\\ & 121\\ & 139\\ & 153\\ & 157\\ & 226\\ & 161\\ & 167\\ & 171\\ & 175\\ & 160\\ & 181\\ & 189\\ & 190\\ & 203\end{array}$

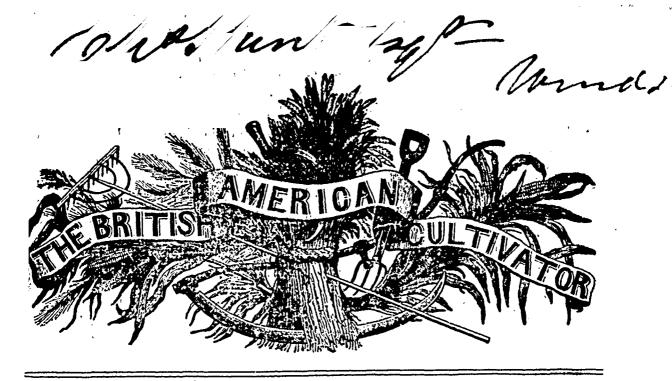
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CONTENTS.

Page	Page
Sponge biscuits	To take film from a horse's eye
Stump lifter	To take film from a horse's eye
Stump lifter	Thinning plants
Swiney, or sprain of the shoulder . 210 Strawberry cakes . 222 Scab in sheep	Tar, an experiment with, in cultivating
Scab in sheep	peach and nectarines
Scours in sheep	The crops
Steel, to preserve from rust	Toronto nursery
Strawberry, a new variety	To render boots waterproof
Saving manures	To cure a snake bite
the crops grown on it 244	To candy sugar
Stirring the earth, a relief against drought 246	To secure the fruiting of a tree
Scratches in horses	To prevent tea kettles from coating with
Scratches in horses	lime
Signs of a poor farmer	Tar, a remedy for the sheep fly 284.
Sugar for candying	To dye woollens black
Strawberry, Hovey's seedling	Trees for shade and ornament
Salt, sown to kill worms	
Soap, recipe for making	The happy farmer, poetry
Smut in wheat	Tomatoes, to cook
Sheep, mode of crossing to improve the	To destroy weeds on ground walks
Soils, twelve tests in analysing	of Agriculture
Safety rein	To the patrons of the Cultivator 358
Substitute for iron on railroads	The Tanning process
Sheep, shelter for	To cure scours in horses
wool	To remove crickets </td
Self-acting pump	To destroy ants
Stifle in a horse, a cure	Underdraining
Straw cutter	Underdraining
Substitute for wheat	
The American agriculturist 5	Varnish for water color drawings 94
To color scarlet	Varnish for boots and shoes
The American farmer, poetry 30	Vermin on fowls
To kill lice on cattle	Vinegar, recipe for making
The pride of the eye, a curse to the nation. 41	Vermin on fowls
Trees, protection to bark of	
The young man's leisure	Work for the month 1, 33, 65, 97, 129, 161
To fix ammonia, and disinfect nightsoil . 91	193, 225, 257, 289, 321, 353
	Woollen manufactory of Esquesing 44
To select a good wife	Wheat, Alabama variety 44
To make vines grow	Will farming pay expenses
Tanner's bark	Will farming pay expenses
Tincture of roses	Worms and grubs 107
Tomato catsup	Worms and grubs
To preserve apples	Washing calicoes
To kill borers in trees	Whooping cough
To prevent swelling from a bruise 191	Whitewash, a valuable recipe
To prevent chopped hands, and cure	Worms and insects in the stomachs of calves 189
Tea, to ascertain its quality 914	Warts on cattle, to remove
To dye red or grey hair black	Whitewash, a failure
To prevent moulding in books	Whale oil soap for washing fruit trees . 217
To prevent rickets in children 191	Wheat, an extraordinary yield
To kill vermin in cattle	White swellings to destroy
Thin sowing of grain 904	Wolves to attract
Take care	Wheat farming in Westeru New York . 291
Transmutation of grain 151	Wheat Flour, to judge the quality of 311
Take care	
To make the teeth white	York township Agricultural Society 50
10 take white spots out of furniture 252	Yellow water in horses
To make colours fast	Yeast from potatoes

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"Agriculture not only gives Riches to a Nation, but the only Riches she can call her own."

NEW SERIES.]

TORONTO, JANUARY 1, 1845.

[VOL. I.--No. 1.

WORK FOR THE MONTH.

In this season of the year every description of live stock will require attention. Sheep, cattle, and horses would thrive better if they were supplied with common salt in their troughs; attend also to the cleanliness of your animals, and remember that regular good feeding is better than irregular profusion. Much difficulty is sometimes experienced in conversing the whole of the annual produce of straw and coarse litter into manure; to expedite this process, confine your horned cattle and sheep in separate yards, each provided with comfortable sheds, and spread a thick layer of straw over the whole of the yards once or twice per week, and at the same time allow the hogs free access, so that the layers may be regularly and thoroughly mixed. This plan is only applicable to those who have a greater amount of coarse fodder than is required for food for their stock. If the weather be mild, manure may be drawn to the fields, and spread upon the young clover and wheat. Probably barn-yard manure cannot be applied to the land under any tilizers in use. Do not satisfy yourselves

circumstances, with equal beneficial results, as that of a winter top-dressing upon clover leys and autumn sown wheat. If the manure be long, so much the better for the wheat, as it will protect the young and tender plants, and the snow will not be so apt to lrift, as if no such covering Let each farmer make an were used. experiment of this kind the present winter, and its advantages will, we doubt not, be so fully established, that the practice will shortly become popular.

A few experiments in marling and liming land may be made this winter .---If marl can be had, without drawing too great a distance, try one acre only, at the rate of one hundred bushels; either spread it about on the land in winter, or make it into compost with vegetable mould for a dressing for the young clovers in the spring. Marling is a new operation as yet for the farmers of this We pass our word, that if it country. be rich in lime, as most of the marl in this province is, that it will prove to be one of the richest and most valuable ferBritish American Cultivator.

ble, will then be me satisfactory.

you may improve their appearance, with- which gives the fence a uniform appearout serious expense. Crooked fences ance. Before the posts are planted, a should be made straight; and small and trench should be dug about two feet deep irregular fields should be enlarged to suit on the site where the fence is intended to the convenience of the farmer. If this he planted. This is one of the strongest matter has not already been attended to, and most durable fence that is applicable the rails may be drawn and put in regu- for the enclosure of fields, and it is well lar order for laying into fence at the worth the attention of the Canadian opening of spring. Any improvement farmers. upon the old-fashioned worm fence, must be gratifying intelligence to the tasty far. mer. There are two kinds of fences that are coming into use, which look much frequently brought before the attention of more pleasant to the eye than the com- the Canadian farmers, through the memon worm fence, -- one of those is a dium of the Cultivator, and we are proud worm fence, capped with a piece of board to add, not without a portion of the desired or timber about fifteen inches long, six effect. We lately attended a meeting at inches wide, and one inch thick, with a Richmondhill, which was composed of a four inch auger hole bored in each end, large number of intelligent and respectthrough which the stakes are placed per- able farmers and mechanics, for the purpendicularly, so that they fit closely to pose of aiding in the organization of a the fence. If the fence is intended to be Farmers' and Mechanics' Institute. One carried nine rails high, the stakes are set gentleman came forward and liberally through the caps when it has been built subscribed £5; and nearly forty indivifive rails high, and the remaining four duals became members on the spot. rails, are placed upon the caps between The members of the Institute will meet the stakes. The stakes are generally as often as weekly in winter and monthly top of the fence, so, that when they be- to the farmer and mechanic, and to hear come rotted near the surface, they may lectures delivered and reports read from

with the more assertion of others, but try nailed a strip of inch board about four for yourselves, and the result, if favora- inches wide which is attached by a single nail to each. The ends of the pasts and Look to your fences, and see wherein rails are sawn off even with the board,

AGRICULTURAL CLUBS.

These valuable institutions have been made to project about two feet above the in summer, to discuss subjects of interest . be sharpened and again driven in the gentlemen, who, it is expected, will take ground without removing the rails. The an active part in the welfare of the Instionly extra expense in adopting this mode, tution. A suitable building or hall will is the purchase of a four inch auger and be erected, as soon as the funds can be making the cape. The other is simply a raised, which the founders of the Instirow of cedar-posts, being set in the ordin- tute earnestly expect can be done in the ary manner, and in the intermediate dis- course of a few months. The ground tance between the posts is set perpendi- has been given by one individual, and cularly a close column of rails which we are told that there are a number who average about the heigh of the posts- are willing to subscribe most liberally. avar the tope of those rails and posts is A fibrary will be connected with the In-

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stitute, consisting of the best works of the resist giving a receipt for the treatment day, upon Agriculture, Mechanism, and practical Sciences; and it is anticipated that, if the public will come forward and subscribe their mite to sustain this noble and patriotic effort, an Agricultural Museam or place for depositing specimens of the most improved farming implements, choice seeds, and every other article that would contribute to the well-being of agricultural improvement, will be attached to the Institute Rooms, which will be open for the inspection of all who may think proper to call.

Each of the members of the Institute are to be supplied with a copy of the British American Cultivator, for the payment of an extra sum of 2s. 6d.

A similar institution has been established at Newmarket, with merely this difference, that the whole of the funds of the latter will be expended in the purchase of practical books upon Agriculture, Mechanism, and practical Sciences. Two or three conversational or discussional meetings, will take place previous to the issue of the February number, which will give us an ample opportunity of bringing this institution under the favourable notice of the public. The meetings are held on Saturday evenings.

The farmers and mechanics of Richmondhill and Newmarket have set a noble and patriotic example to their fellowcountrymen of other portions of the province. If the people would for once study their own and their country's interests, they would follow this example. Further particulars of the advantages of these Institutions may be seen in another portion of this sheet.

writer in the Quarterly Journal of Agriculture, England, states that, "I cannot of fish bones .- Am. Far.

of beasts that may take the prevalent distemner. It showed itself last winter in one of my farm-yard stock, by its discharging abundant saliva from the mouth, with sore and inflamed tongue and gums, very dull, no appetite, confined bowels, and very hot horns. I desired the bailiff to give him one half pint of the spirits of turpentine, with one pint of linseed oil. repeating the oil in twenty-four hours, and again repeating it according to the state of the evacuations. At the end of twenty-four hours more, the bowels not having been well moved, I repeated both turpentine and oil. In two days the beast showed symptoms of amendment, and in three or four took to his food again, and did perfectly well. All the yard beasts and two of the fattening beasts have had it, and all have been treated in the same manner with perfect success. Half-a-pint of turpentine is the smallest. and one pint the largest dose, during three or four days. Little food beside oatmeal gruel was given."

Guano.—A very simple mode of testing the genuineness of Guano is, to dissolve a small portion in Hydrocholoric Acid. (Spirits of Salt) difuted with four times its weight of water. The salts of the genuine substance will be readily dissolved, they being all soluble as well as the bone dust it contains in this acid, whereas other substances, from their not being acted upon by the acid will sink to the bottom, or be precipitated, in the language of chemistry. Pure Guano is of a light brown color, and is mixed with small portions of white substances here and there; . which on being crushed between the fing. ers will appear like minute pieces of chalk, and which will be found to consist

DO THE PRODUCERS OR NON-PRO-**DUCERS RULE**?

We suppose that it is scarcely necessary to ask this question, as it is a well known fact that the producers of wealth have a very small share of influence in the management of the Government of This would be less a this Province. matter of regret, if those in whom is delegated the business of influencing the government, would evince an active interest in fostering every branch of productive industry, and especially that of Agriculture and Mechanism. We have no desire to accuse any one in power of neglect; but it is well known that in the former history of the country, these branches have been allowed to struggle in their infancy, without receiving much support or protection from any other source than their humble followers; and even the latter have been so regardless are the most numerous, are ruled by the non-proof union and patriotism, that they have been actuated more by a spirit of selfishness than from higher and nobler motives. If an improvement were introduced or discovered in any portion of the province, no trouble apparently has been taken to, the remedy. Why is it so ! Is it not because make it generally known; why should any wonder at the backward state of im- principle that "knowledge is power"? Do they provement, when this semi-barbarous not owe their superiority in the government of the principle has been so generally fostered and practiced in the country ? The period has at last arrived, when, we trust a better state of things will exist. The producers of wealth are held in much higher estimation by the non-producers than they were only a few years since; and may we not add, that they have a much more exalted opinion of themselves and their profession than they had formerly.

place in the condition of the country,

ing of the productive classes. The people themselves as well as the Government should look to this matter.

The day may come when the people will sufficiently understand their true interests, to adopt energetic measures to secure the return of a majority of practical intelligent agriculturists and mechanics to the Legislative Councils of their country; but in the mean time we would urge them to educate their sons, and teach them the necessity of storing the mind with useful knowledge, so that they may aid in elevating themselves, their profession, and their country, to the exalted rank they so richly merit. We beg to direct the attention of our readers to the following very pertinent remarks upon this subject, which we copy from the Maine Farmer and Mechanic :---

It is a fact that the productive classes, which We so consider it, and they therefore ducers! present an exception to the good old rule that the majority should govern. We do not wish to ar-ray one class of the people against another,—nor to excite jealousies and heartburnings among the farmers and mechanics in regard to the professional classes; but we wish them to inquire into the causes of this state of things, and ascertain the non-producers, by which we mean the professional man, the merchant, &c., act more upon the country, to the superior education that they have obtained-to the improvement of their minds? They think more—read more—are ever ready to catch every new fact, every new idea, and to act upon any suggestion which will elevate them and keep them in the ascendancy. If this be true, if this be the talisman by which they hold the control over others; by which they rule, the remedy clearly is, to follow, or rather lead in the same track. Rub up the domant faculties-improve the mind-store up the knowledge necessary to elevate you to the same standing, or a little higher than they are. God has given more equality of talent and faculties, than people have been willing to acknowledge—but too many have suffered them to lie unimproved,—have hid them as it were "in a napkin," have buried them in the earth, and Before any great change can take then murmured because this one, or that one had got the start of them. Now this ought not to be. We would that the Farmer, and the Mechanic. steps must be taken to elevate the stand- and the Mariner should be as learned, as well

read, and as familiar with the principles of philosophy, both moral and natural, as the Divine, the Physician or the Lawyer. We do not mean that-they should be so well versed in the particular professions as each of these, but they should be versed in general principles, in the application of the laws deduced therefrom to the practical duties of the several stations in life. Nothing more is necessary than a desire to do it. The avenues of knowledge, in this country, are open to all. Books can be had in abundance, which will guide, -instruction lies in your daily path, all that is to keep the eyes open and the mind active. Improve the mind and you elevate yourselves. Elevate yourselves and you take an equal rank with those of the same grade, and have an equal command as those, who now, perhaps, rule you. A most pernicious opinion has been heretofore prevalent in regard to the knowledge requisite for a farmer or a mechanic. Indeed we have heard Farmers' Club and Library. some gravely argue, that the less of book larning lated residence of the rural classes, their he had the better he "was off," because he would be "more contented and less aspiring." Aspiring, foreooth! as if because a man holds a plough, or pushes a foreplane, he should be an ignorant Ass all his days. This is sheer nonsense. There is no pursuit which can expand the mind more than the Agricultural or Mechanical Arts. They are the very demonstrations of science in every particular.

The practical operator in either of these grand divisions of labor, cannot make a single movement in his occupation, without putting into practice and illustration, some one of the laws of mechanical or chemical philosophy. Why should he not understand, then, what he is about? Why should he not be able to look as far into the mysteries of the natural world as any other man? Nay, why should he not be a pioneer, and lead others, instead of being an humble follower, treading with faltering, doubtful footsteps, far in the for his not being first and foremost? Who is to blame if the Non-producers take the lead and rule, and govern and dictate to the producer? Who but the Producer himself, who has suffered his 'taient to lie unimproved-his intellect to be unenlightened, and his mind to be undisciplined in the very things so essential to his success, his prosperity and his happiness.

"The fault, dear Brutus, is not in our STARS, But in ourserves, that we are underlings."

THE AMERICAN AGRICULTURIST.

Our printer neglected to give credit to the American Agriculturist for the article upon "Artificial Oysters," on the 135th page ; upon "Batter-making," on the 138th page ; and upon " Too much Land," on the 142d page of the 3d volume of the Cultivator, for which we beg to offer an apology. We trust that in future the reason to complain on the score of our cot giving credit where credit is due.

FARMERS' CLUBS AND LIBRARIES. If any class of the community would 1 be benefitted more than another from clubs or associations based upon the sound and philanthropic principle of mutual benefit, it is the agriculturists; entertaining this view, we feel it an incumbent duty as a journalist, to point out a few of the benefits that would result to our brother farmers were they to take the necessary steps to establish within their several circles of influence, or even within the limits of each township; a The isolimited means of obtaining information, and the very imperfect system of educational institutions heretofore in operation in the country, all clearly point out the necessity of something being done, by which the 'independent yeomanry of the province may be made better acquainted with the various influences that affect their noble calling—skill in agriculture can be obtained by practical experience, by acute and extended observations, by reading the best treatises written upon agriculture, by mutual communications, rear of the professional man? Who is to blame by conversation with intelligent farmers, and by comparing the result of experi-With the exception of the first ments. means pointed out to obtain instruction. it is to be feared that but a small proportion of the Canadian farmers will give themselves any trouble or anxiety in the the matter. It is a fact, no less strange than true, that the experience of the Canadian farmers are confined to their respective districts or neighbourhoods, and they have given themselves no concern in comparing their own methods of agriculture with the methods practiced in other districts. No man should take it like will not occur, and that none will have for granted that because he has been for hirty or forty years employed as a far-

The British American Cultivator.

mer, or that if he pursues the method followed by his father before him, he will therefore necessarily prosper. To ensure the greatest degree of success to agricultural operations, it is absolutely necessary that those who cultivate the soil should make themselves acquainted with the best systems of agriculture practiced in this and other countries, whose climate and soil are similar to their own. But comparatively few are so circumstanced that they can afford to to take a tour through there own, much less foreign countries, to obtain a general knowledge of the best systems of husbandry practiced; and it is obvious that those who are at all anxious to be in possession of a large fund of practical and scientific information upon agriculture, must adopt a cheaper and more direct method than making expensive tours to obtain it. One of the modes by which the Canadian farmers may clevate their profession, in the estimation of themselves; and all true friends to their country, is the organization of Farmers' Clubs and Libraries. If institutions of this kind were established in each city, town, village and populous settlement in the province, the whole face of the country would very shortly put on the appearance of prosperity, and this would become one of the most celebrated agricultural countries in the world.

At present but few farmers have access to books and treatises upon agriculford for those who belong to them, an opture, and their opportunities for reading, and hearing public lectures are extremely limited. These opportunities might be afforded to every farmer, by the payment of a most moderate sum, not more than five or ten shillings annually. By a judicious selection of books the whole of the information, of modern date, published upon agriculture, and every

new work of value, as it emanated from the publisher's office, could be placed in the hands of such of the farmers as may have deemed it a matter worthy their attention to have aided in founding an Agricultural Library in their neighbourhood. The benefits that would accrue to the farmers, their sons, and the country in general, were agriculturists by any process whatever, to become a reading and reflecting class, is almost incredible.--When we say reading, we do not wish to be understood that they should read promiscuously all that came in their way, but principally such works as relate totheir own noble profession, and the arts and sciences, that would tend to be of some practical benefit. Now, it appears, from what we know of the condition and wants of the agricultural community, that no means could be adopted that would have the same salutary effect in improving the intellectual faculties of the adult agricultural population, as the establishment of Agricultural Clubs and The meetings of the clubs Libraries. might very advantageously take place once per week in the winter, and once per month in the summer months. These meetings to be of general henefit, should be conducted in an orderly and businesslike manner; and the speeches should be delivered with less regard to their eloquence than for their practical and beneficial tendency. They will also afford for those who belong to them, an opportunity of being present at discussions, and taking a part in them, suggesting questions for investigation and discussion. of having doubtful points investigated and

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learn how, in the shortest time, and at the least expense, to produce the greatest quantity of food and other necessaries of life for the consumption of man and other animals, without permanent injury to the soil; and we know not how this skill in agriculture can be be obtainedexcept through agricultural schools, magazines, societies, clubs and librariesthese are topics upon which we shall treat most fully in the subsequent numbers of the Cultivator. In the mean time, we would conclude by remarking, that in order that the agriculturists should be stimulated to engage in the proposed agricultural movement, that legislative aid should be given at once, as an additional inducement for the establishment of Agricultural and Scientific Libraries.

To Young Men .- Truth well Spoken .-We commend the following very sensible remarks form the New York Tribune, to the special attention of the young men:

It is a sore evil that labour, so essential to health, vigour, and virtue, is generally regarded with aversion. Even those who boast that they live by straight-forward hard work are almost uniformly seeking to escape from their condition. Even the substantial, thrifty farmer, whose life is or might be among the happiest, is apt to train his darling son for a profession or put him in a store. He laudibly wishes to put him forward in the world, but he does not think that half the time and expense bestowed in making him an average lawyer, or doctor, would suffice to make him an eminently intelligent and scientific farmer—a model and blessing to the snicide. While nine-tenths of states are a waste whole country. Why will not our thrifty far-wilderness, and all our marts of trade overflow mers think of this? The world is surfeited with with eager scekers for employment, let all esmiddling lawyers and doctors-the gorge even cape from cities who can, and all who have op-of Iowa rises at the prospect of a new batch portunities to labour and live in the country, of either; of tolerable clergymen there is cer- resolve to stay here. tainly no lack, as the multitude without socie-tues bear witness, and yet here is the oldest, the most essential and noblest of employments, on which the full blaze of science has hardly yet poured, and which is to-day making more rapid strikes, and affords a more promising field for intellectual power than any other, compar-atively shunned and neglected. Of good, thoroughly educated, at once ecientific and practical furmers, there is now here a super-abundance. Evorywhere there is need of this class,

to introduce new processes and improve old ones, to naturalize and bring to perfection the plants, grains, fruits, &c., we still import from abroad when we might better produce them at home-to introduce a proper rotation and diversification of crops to prove and teach how to produce profitably the most grain to the acre-in short to make agriculture the pleasing, attractive, encoding pursuit it was originally intended to be. There is no broader field of usefulness-no surer road to honourable emi-nence. The time will come when, of the men of the last generation, Arthur Young will be more widely honoured than Napoleon. But while the true farmer should be the most thoroughly educated and well informed man in the country, there are many of our old farmers, even, who will cheerfully spend a thousand dollars to gualify one son for a profession, yet grudge a hundred each to educate the three or four less favoured who are to be farmers. There are farmers who cultivate hundreds of acres and never look into a book on agriculture, though they would not countenance a doctor or clergyman who studies no works on medicine or theology. What a world of mistakes and inconsistencies is displayed all around us!

There are thoosands in all our cities who are well employed and in good circumstances; we say, let these continue, if they are content, and feel certain that the world is better in their daily doings. There are other tens of thousands who must stay here, as things are; having no means to get elsewhere, no skill in any arts but those peculiar to city life, and a very limited knowledge; these must stay, un-less something should transpire out of the common course of events. There are other tens of thousands annually arriving from Europe, who, however valuable acquisitions to the country, must contribute to glut the market and depress the price of labour of all kinds in our citysome of these must remain here till they can obtain means and knowledge to go elsewhere. But for young men of our own happier agricultural districts to crowd into great cities or into villages, in search of clerkships and that like, is madness-inhumanity to the destitute-moral

Great Yield of Pumpkins.-Chas. L. Pierce, of this town, raised the present year from a single seed, 15 pumpkins weighing 384 lbs. The largest weighed $31\frac{1}{2}$ lbs, and the average of the whole was 251 lbs. each. The vine, including all the branches, measured 835 feet in length. -Wor. Spy.

PRICE OF LABOUR.

• One of the principal checks to the introduction of new and valuable improve- moderate that every labourer, by being ments in Canadian agriculture, is the industrious and economical of his time very high rates of wages that is demand- and means, may hope in process of time ed by the agricultural labourers. average rate for able-bodied farm labour- and a successful and independent cultiers may be safely reokoned at £25 per vator of the soil, 'ill it by no means tolannum, including board, lodging, wash- lows, but that it is practicable for those ing, mending-clothing, &c. When every who employ laborers, to resolve by comthing is taken into account, it will be mon consent, to simultaneously reduce found that each labourer will cost his the rates of wages down to their proper employer about £50 per annum. pretty clear that those whose farming operations are principally performed by rate of wages should be ; we answer, that hired labourers, will have the smallest the reduction of about £5 per annum share of the profits, when all the expenses are paid, unless a large degree of skill, good management, and economy be observed in the several departments of the husiness. Labour is as high now as it was when wheat brought from 5s. to 6s. per bushel, and other grains in proportion, and pork and beef from six to seven dollars per 100 lbs., and every other description of agricultural produce sold at the same rate; clothing, and every other necessary of life that the labourer requires to purchase, have been reduced in price correspondingly with the agricultural products ; thus we see that £10 will purchase as much clothing at the present time as could have been years since. It may be said, that these are matters that cannot easily be avoided, as the value of labour, agricultural and &c., find their level like other commodities, but to a certain extent, the item of labour may be made an exception to this we find that there has been but a wifling nile readers. Every sentiment is worthy

variation in wages from her early settlements down to the present period.

Although the value of wild lands is so The to become a landed proprietor himself, It is level.

> The question next arises, what this upon the present yearly wages of each man, would equalize the complained of disparity, so that neither employer nor labourer would have much reason to complain. A much greater reduction than this would prove to be a serious evil to the whole community, and especially to agriculture, as but few of the best farm labourers of Great Britain would emigrate to this country, if wages were lower than they are in other new countries.

We would suggest the propriety of the speedy adoption of the proposed reduction; if the best farmers were generally to offer only £29, where they had been in the habit of giving £25, the result purchased for nearly double that sum ten would be that a uniform reduction would very shortly take place. We have a few practical suggestions to offer the Canadian farmers, upon the best method of paying wages to their labourers, which we mechanical produce, imported goods, shall do the first opportunity that offers.

SUGGESTIONS TO FARMERS' SONS.

We copy the following very sensible general rule, inasmuch as by examin- remarks from the Michigan Furmer, to ing into the former history of our country, which we crave the attention of our juveimprinted on the memory of the young This fast alone speaks volumes in favour of agri-culture as a pursuit, in preference to any other. men of this country. It breathes the true But we not only desire farmers' sous to become spirit of patriotism, and may it have a farmers, but learned men, and prominent, useful wholesome impression upon the minds of and worthy members of community. All this the youth of the land.

In the first place, we advise our young friends to remain, contentedly, at home, and resolve to become thorough and independent cultivators of the soil, instead of seeking what they may consider a more easy or genteel occupation in our cities and villages. Let them remember that "Agriculture is the noblest, and is the most natural, useful,-pursuit of mankind: and if they consi- your time and talents to the best advantage. der well and decide wisely, they will determine to become farmers, and strive to excel in their ocserve the health, and promote the morality, virtue, and consequently the peace and happiness of mankind. Indeed, in all ages, the farm has been considered the nursery of health, pure morality, and true patriotism.

We are aware that young persons engaged on the farm, are apt to think the business hard and degrading, and that they might live easier, and much happier, in the pursuit of some other calling ; and the frivolous attractions of the city often induce them to discard the real and pleasant, for a visionary and perplexing means of livelihood and source of happiness. This is a most mistaken and erroneous idea, and the acting upon it annually causes the ruin of hundreds of young men who would otherwise become useful and worthy members of society. We speak advisedly, and that which we know, for-having been bred upon a farm, and afterwards accustomed to city life-we are conversant with the peace and pleasure, health and harmony, industry and cheerfulness of a country life, as well as with the follies and temptations of the city-temptations which, if not guarded against and resisted, lead to dissipation, vice, crime, misery, and ruin.

In addition to the above, there are numerous other reasons why we should advise farmers' sons to remain in the country, one or two of which we The most important of these is the will mention. fact that the occupation of farming is the surest means of livelihood, and of obtaining a compe-The offices, stores and shops of our cities tence. and villages are already full to overflowing; and distinction or amassing wealth, either in the learned.professions or other callings carried on in our populous towns. Thousands are now out of employment, or dragging out a miserable and unhappy existence, in consequence of depending upon a precarious and unstaple calling. And it is worthy of remark here-and we call the particular attention of our young friends to the fact-that while we have marked out, you do not become distinyoung men from the country are seeking the city in order to better their condition, the most shrewd and wealthy men in our cities are sending their vourselves and satisfaction to commu

of being written in letters of gold, and sons into the country and settling them upon farms. they may accomplish by the exercise of proper industry and perseverance. Let them bear in mind that in the parable of the talents, he who had five talents was not commended because he had them, but because he put them to a good use .---and he who had but one talent was not cohilenned on that.account, but because he made no, use of it whatever. Remember also, that "not, to use a -the most hunourable, because it is the most talent, is to waste it," and resolve to improve Determine, not only to excel in the practice of your occupation, but to be well informed relative cupation. Aside from its being the noblest, the to all its branches. Be not content to follow in ' calling of the farmer is the best calculated to preway, many of our farmers of the present day, seem to be in almost Egyptian darkness, judging from their mode of husbandry, &c.]-but try to institute improvements, and see if you cannot, make two blades of grass grow, wher · only one grew before. It is your first duty to stucy your occupation-to inform yourself by practice, observation, and reading the results of others' experience. Read care fully all the agricultural books and papers that you can obtain-and if you cannot afford to take more than one paper, let it be one which will prove useful in teaching you relative to the various branches of your occupation.

Next in importance to this study, is the duty to inform yourself concerning the past history and present condition of your country. This you may do by reading extensively, carefully and considerately-for which you will have sufficient time, if properly improved, in the long winter evenings and other seasons of leisure which farmers enjoy, Do not for a moment entertain the erroneous and too prevalent opinion that it is either unnecessary, or impossible, for farmers to become learned. Employ all your leisure time in useful reading and study (instead of dreaming over senseless love-and-murder novels, &cc.,) and you will become learned and useful-worthy of the confidence of your fellow citizens, and capable of discharging the duties of any station to which you may be elevated. Bear this in mind, and do not waste your time in idleness, or in contracting expensive, injurious and vicious labits. And, among other things, practice *economy*, for this is a cardinal there is consequently little chance of arriving at virtue, in either man or woman. Economy and frugality are essentially necessary in the proper and laudable acquisition of property, Read Franklin's Essays on this and other subjects, and follow the judicious and wise advice they contain.

> Finally, young friends, resolve to be men-intelligent, enterprising, virtuous and worthy members of society. And if, in following the course guished among your fellow men, certainly your worth and usefulness will render h: piness to

CUT WORM.

Errors in natural history may do much harm. and I conceive the one I am about to notice, is not an exception. James Corwin in the Boston Cultivator, noticing the remark of Mr. Ruffin, in his recent survey of South Carolina, "that cut worms in corn may be destroyed by continued til-lage and a naked and open soil," remarks that "the cut worm would not be found in corn were it not planted in sward or sod land; they are the progeny of a species of beetle or other insects, which could never propagate its kind without the aid of dung, which is found in grass fields that have been fed by homes or cattle, and in this they enclose their egg or eggs and sink them a given distance bolow the surface," &cc. &c. Mr. Corwin has mistaken the grub of the common beetle for that of the cut worm moth. The latter does not lay its eggs in dang, but in the ground. The cut worm is the caterpillar of a moth belonging to the lepidopters and genus Agrotia. There are several species, the larvæ of which are injurious to va-rious plants, cabbages, corn, &c. They confine themselves to no particular vegetable, but prefer young corn a few inches high. The moths fly only at night, lying concealed during the day under the bark of trees, in the cainks of fences, &c. The only effectual remedy that has yet been discovered, says Harris, in his excellent Treatise on insects injurious to vegetation, "is to go round the field every morning, open the earth at the foot of the plants, you will not fail to find the worm at the root, withinfo ur inches. Kill him, and you will save not only the other plants of your field, but probably many thousands in future years." The reason, probably, why corn on a clover lay is subject to cut worm than in any other preparation, is that the clover has been affording the insects excellent food and shelter for two years or more. and they have thus increased in numbers greatly beyond what they could have done in cultivated fields. It is believed that Mr. Raffin is right m his remark, if he includes in his meaning of the words "continued tillage," the necessity of destroying every worm can be found. But as the moth has wings and uses them freely at night, one ! former may destroy every cut worm in his land, 2011 without my any r and suffered to thaw fields next year, the parents of which have emigrated from his neighbours who were not so indurrious. If every farmer would, however, adopt ception amng roots to this rule. this means of getting rid of this formidable pest, are injured by a small degree of cold, and then Mr Raffin's remedy, with the proposed addition, would certainly be effectual. The truth is, without being frozen. It is only the sudthat we are all too inattentive to the destruction den thawing that causes the dissolution of of insects at the commencement of their career. I the apple or potatoe that has been frozen. One minute's work in 1840 would have saved a If in the frozen state an Irish potatoe is week's labour of a dozen men in 1844. There is 11 m the trozen state an irish polatos is nothing easier than to catch and kill the first two put into cold water, until the frost is out, or three insects that appear in a field or garden; and is then cooked, it will be as good as but they are generally unheeded, because "two if it had never been frozen. All these or three insects can do no harm;" they are per-mitted to lay their eggs. Next year there are experience, and that of many others.— wvoral hundre's of them, and even if one-half of these are caught and killed, (which will not often. Philadelphia Saturday Courier.

happen,) the other half will lay their eggs, and onthe third year we shall have 50,000 or more, and then there will be work on hand to kill them. The depredations of the common caterpillar, for instance, can easily and certainly be prevented in this way, as the writer of this knows well from his own experience. In a garden full of shrubbery, every year this caterpillar makes its appearance, as an emigrant from the neighbouring gardens; but it is a rule never to allow the first in-sect to escape. Each and all are destroyed as soon as they make their appearance, and consequently there is no multiplication of them by the 500 for one.-Alb. Cult.

PRESERVATION OF APPLES.

A gentleman from the northern part of Indiana recently communicated to us a fact in regard to the preservation of ap. ples, which will be new to many of our readers, and valuable to all farners. He says, that, to keep apples from Autumn to June, he places them in a shallow hole, dug as for Irish potatoes, having covered the bottom with corn-stalks or straw, and the straw with dirt to the depth of five or No shelter is placed over six inches. As soon as the severe weather them. arrives, and the ground, and perhaps the apples themselves, become thoroughly frozen, straw is again placed over the frozen heap, and the whole again covered with a coating of earth,—this time ten or twelve inches thick.

The object is to keep the first coating of earth frozen until spring, and then to cause it to thaw very slowly.

The same treatment may be given to turnips. Irish potatoes, beets, and carrots. Any of these roots may be thoroughly frozen without injury, provided they are them by slow degrees.

Sweet potatoes are almost the only ex-

GAPES IN CHICKENS.

Mesers. Editors.-From all I have seen and heard on the subject of what is called gapes in chickens, it is a disease which is not generally understood. I shall therefore give you my opinion on its nature and cure. This spring having my chickens attacked as usual with the gapes, I dissected one that died, and found its Branchus or wind-pipe, (not the throat,) filled with small red worms from half to three-quarters of an inch long. This satisfied me that any particular course of feeding or medicine given would not reach the disease. I therefore took a quill from a hen's wing, stripped off the feathers within an inch and a half of the ond, trimmed it off with scissors to about half an inch wide, pointing it at the lower end. I then tied the end of the wings to the legs of the chicken affected, to prevent its struggling; placed its legs between my knees, held its tongue between the thumb and fore finger of the left hand, and with the right, inserted the trimmed feather in the windpipe (the opening of which hes at the root of the tongue,) when the chicken opened it to breathe, pushed it down gently as far as it would go (which is where the windpipe branches off to the lobes of the lungs, below which I have never detected the insect,) and twisted it round as I pulled it out, which would generally bring up or loosen all the worms, so that the chicken would cough them out, if not, I would repeat the operation till all were ejected, amounting generally to a dozen; then release the chicken, and in the course of ten minutes it would eat heartily, although previous to the operation it was unable to swallow, and its crop would be empty unless filled. with some indigestible food. In this manner I lost but two out of forty chickens operated on ; one by its coughing up a bunch of the worms which stuck in the orifice of the windpipe and strangled it-the other apparently recovered, but died several days after in the morning; in the afternoon upon examining its windpipe, I found a female worm in it, differing from the other by branching off at the tail in a number of roots or branches, between each of which were tubes filled with hundreds of eggs like the spawn of a fish; and although the chicken died in the morning, the worm was perfectly alive in the afternoon, and continued so for half an hour in warm water. While I was examining it in a concave glass under a microscope, it ejected one of its eggs. in the centre of which was an insect in embryo.

From this fact, I have come to the conclusion that when the female worm breeds in the chickens and kills it, these hundreds of eggs hatch out in its putrid body in some very minute worm which probably after remaining in that state during the winter, change in the spring to a fly which deposits its eggs on the nostril of the chicken from whence they are inhaled and hatched out in the windpipe and become the worm I have described.

There is one fact connected with this diseasethat it is only old hen roosts that are subject to it; only the greatest benefit a rogue can confer upon and I am of opinion that where it prevails, if the us, but it is also the only service that he will chicken houses and coops were kept clean and perform for nothing.

frequently whitewashed with thin whitewash, with plenty of salt or brine mixed with it, and those chickens that take the disease, operated or and cured, or if they should die, have them burned up or so destroyed that the edgs of the worms would not hatch out, that the disease would be eradicated.

I am also satisfied that the chicken has not the disease when first hatched; several broods that I darried and kept at a distance from the chickonhouse where the disease provailed, were entirely exempt. And chickens hatched from my eggs where they had never been troubled with this disease, were perfectly free from it; and a neighbour of mine who built in the woods half a mile frem any dwelling, and has raised fowls for six or seven years past, and has frequently set my eggs. has never had the gapes among his chickens.

With my first brood of chickens, there was not one escaped the gapes. But all that have been hatched since I had the chicken-house and coops well whitewashed inside and out, with thin whitewash, with plenty of brine in it, and kept clean, have been exempt from the disease, with orcasionally an exception of one or two chickens out of a brood.

In operating on the chickens, although one person can effect it, it is much easier done to have one to hold the tongue of the chicken while the other passes the feather down its windpipe, and by having a small piece of muslin between the finger-, it will prevent the tongue from slipping, which it is apt to do upon repeating the operation.

Accompanying this, I send you drawings of the gape worm in their mathral sizes, and as they e_{Γ} . pear when magnified. Nos. 1 are the male worms, and Nos. 2 the female ; you will observe that the heads of both male and female branch off in two trunks with suckers like leeches at the extremities of the trunks, one trunk longer and thinner than The intestines extend from the branchthe other. ing of the trunks downward towards the tail, and perfectly apparent when magnified. This female branches off like the root of a tree at the tail with intermediate tubes filled with small oval eggs.

Yours, &c. G. F. MORTON. Mill Farm, New Windsor, Orange co., N. Y. Aus., 1844.

[We have always succeeded in ouring the gapes by timely exhalation of a strong tincture of Assa. fætida, which we used under the supposition that worms were the cause of the discess, and that the smell and teste of that noxious tincture would dislodge them, and as a prevention of the disease we have successfully placed a small portion of the drug in the vessel in which the chickens received their drink.-Ed. Am. Farm.]

There are two modes of establishing our reputation; to be praised by honest men, and to be abused by rogues. It is bost, however, to secure the former, because it will be invariably accompanied by the latter. His calumniation is not

AGRICULTURAL SURVEYS AND REPORTS.

The practice is becoming very popular in the United States, of employing competent persons to visit the best practical farmers, for the purpose of collecting information upon agriculture, which is subsequently published in the shape of reports, for the benefit of the public. In many instances those Surveyors, or rather Commissioners, are employed by government, and a portion of the expense of publishing is also paid from the same source; the country in this way has been flooded with valuable information upon Agriculture, and the result has obviously been, a thorough reform in the whole of their agricultural operations. A spirit for improvement has thus been awakened in the breasts of the community, so that it has become scarcely necessary for the Government to share any portion of this As evidence of this statement burden. we would mention two facts :--Henry Coleman, Esq., formerly Agricultural Commissioner of Massachusetts, by whom a number of massive volumes of agriculfural information was collected and published as above described, is now on a tour through Europe, to collect information upon the science and practice of Agriculture, which is gnich published in Magazine form in Boston, for the benefit of his fellow-countrymen. A. Randall, Editor of the Cincinatti Plough Boy, and Charles Wittlesey, formerly Geological Sarveyor of Ohio, are at present engaged in collecting information in Ohio, which they intend to publish in one volume, which will be ready for publishing in January, 1845, and be offered for the low price of one dollar. They have proceeded from farm to farm, and learnt the different modes of management and cultivation, the various plans of building,

the different breeds of animals, kind of vegetables and varieties of fruit cultivated, the various modes of fattening animals, and all other information appertaining to the numerons branches of husbandry.

We would be happy to hear from our friends upon this subject, so that we might be able to judge whether it would be advisable to advocate a similar course for the adoption of the Government and people of this Province.

MANUAL LABOUR SCHOOLS.

Our readers will no doubt recollect, that about two years since, we published a number of Resolutions, embodying a scheme for the organization and government of a Manual Labour School, which was about being established in the vicinity of Newmarket, and which would have been in operation before this time, had it not been for a very unpleasant circumstance which came to light very shortly after those resolutions alluded to were Upwards of cight thousand published. dollars were subscribed, to aid in establishing this institution, by the spirited inhabitants of the Home District; but notwithstanding their unparalleled liberality and patriotism, it was deemed a wiscr course by the majority of the committee of management, to disorganise and allow the embryo institution to die a prcmature death, rather than disgrace themsclves and the cause by bolstering up an edifice based upon an unsound foundation.

This apparent failure, under the peculiar circumstances of the case, reflects no discredit upon this class of institutions. As an unflinching advocate of manual labour institutions, we humbly conceive that the day is not far distant when they will become both popular and numerous in this country. They are

certainly adapted to the circumstances and tastes of the people, and if under proper controul and management, they would be of an incalculable benefit to the Province.

The Government would set a noble example by liberally patronising or endowing such an institute. The Governments of France, Austria, and Prussia, have long since richly endowed manual labour schools; and the Governments of Great Britain and the United States are now extending their aid to those noble institutions; and we see no good reason why, in this great agricultural province of the British Empire, that something liberal should not be done in this respect as well as in other countries. In the capacity of Editor of the Cultivator, we shall agitate this subject until some definite action upon it has been taken by fully, the study and the labour should have gene-rally, common object. In no country can this the Legislature; in the meantime we proposition of rendering study and labour recipro-"ould beg to direct the attention of those who have influence in head-quarters, to the following very forcible remarks upon this subject, from the pen of the late Judge Buell :---

MANUAL LABOUR SCHOOLS.

" It is essential to every system for giving a liberal education to all classes, that it should include the means of inuring the people to manual labour. By this labour the multitude must sub-sist. An education unfitting them to work, would pends, for its future improvement, upon the mea-make their future lives useless and dishonourably sure of general and scientific knowledge which independent."

* * this great achievement of civilization and philan- nust ever determine our general character-whethropy is to cease to be a dream, it is to become a ther we regard the social virtues, —or our political reality. In no institutions have, the labouring and moral standing as a nation. This class of our reality. In no institutions have the labouring and moral standing as a nation. This class of our classes such an interest. A philanthropist who youth may, at least, be greatly benefitted in prac-desires the happiness and honour of giving the tical knowledge, while they are acquiring a good most effectual spring to social progress, cannot education at school. better employ himself, than in studying, improving and extending these."—Rev. Dr. Channing upon schools of instruction, and under the direct.or. o Education:

ed to the rudiments of knowledge, and confined to the superficial rules of the pedagogue,-but that the faculties and powers of the mind should be developed, and directed to the ultimate good of society; that our boys should be taught so much of the physical sciences, now become the hand-maids of the arts, as will benefit them in their trade or business, and "enable them to comprehend the phenomena which are continually passing before their eyes;" that they should be instructed in their social and political duties—be made acquainted with our history, government and laws, and instructed in the responsibilities that devolve upon them as citizens of a free state. In fine, that their minds should be so disciplined in school as to make them proficients in their business of life, and wholesome, useful members of society.

And it is also important, as regards the mass of population, that the hands be taught and inured to labor. The habit must be formed in youth. Practice alone makes perfect ; and besides, few resort to labour in manhood, who have not been practiced The time of youth is too short to to it in youth. admit of separate and distinct periods for improving the mind, and instructing the hands. The grand desideratum therefore would seem to be, so to blend study and labour, in the business of instruction, that they shall not interfere with, but aid and stimulate each other. To do this successcally beneficial to each other, and of imbuing the minds of youth with useful knowledge, be as readily adopted as in our own. The mass of population, whose condition we would improve, are farmers and mechanics. And experience has fully shown, that if we would improve the condition or habits of any class, or of society at large, we must begin our work with the young, who are to be managers on the business stage of life. It is easier to bend the pliant twig than the stubborn bough.

Our remarks apply particularly to the business of agriculture, which gives employment to fiveshall be brought to direct its labours; while this "It is by manual labour schools, that class of our population, from its numerical force,

competent, scientific, and practical men, would It is conceded on all hands, says Judge Buell, that it is important, as well for the pecuniary in-terests, as for the moral habits and good order of society, that a better system of instruction, than now exists, should be provided for the great classes of the labouring community. That instruction should no longer be merely mechanical, and limit-

no less apparent. Such schools would do morethey would improve the moral condition of society | applications, it can rarely be advisable to cautby rendering labour more honourable and more erize the part, unless the tumor interferes mainviting, and by winning from the paths of idleness and dissipation, where their examples contaminate and corrupt, multitudes of the children of wealth, and transforming them into men of industry, and usefulness.

LAMENFSS OF A HORSE-SPLINTS.

Mr. James M. Tower, of Waterville, asks for ivformation relative to what are called splints in horses. We handed his letter to Dr. Wright, veterin' y surgeon of this city, who has favored us with the following:

MR. TUCKER-In answer to your correspondent, Mr. Tower, I would request him to examine fhe bones of the fore leg of a horse. He will there find, placed immediately behind the large matercarpalor shank bone, two smaller ones, which adhere to the shank bone by a cartilago-ligamentus substance. These two bones the work individually. When impressed form a part of the knee joint, and give firm- with the truth of a thing we should not ness, support and elasticity to the limb. This adhesive substance is liable to take inflammation from concussion or straining the part; it then think as we do, before putting our thoughts becomes absorbed, and bony matter is thrown in practice-we should go right about it, out between the bones, which will sometimes do as we think is just and right, regard-grow to the size of half a hen's egg. These less of the opposition and sneers of those osseous tumours are called splints. In slight cases the treatment is simple-slight blisters. repeated, or the idodine ointment, mixed equal to it, remembering that "example is betparts with Ung. Hydr.; or Ung. Hydrage, 2 oz 'ter than precept," and that "actions speak with one drachm Hiodrate of Potass, rubbed on louder than words." the part. The last operation, for this disease is salled subcutaneous periostiotomy, but is seldom necessary.

GEO, WRIGHT, M. R. V. C.

We add the following from Youatt's Treatise on the Horse:

"When the splint is forming, the horse is frequently lame. covering the bone is painfully stretched; but when this membrane has accommodated itself I do they say, (or think,) with so many to the tumor that extended it, the lameness sub- | opposed to me? But in this they make a sides and altogether dissappears, unless the splint great mistake-millions are counted by be in a situation in which it interferes with the beginning with an unit, and by individuaction of some tendon or ligament, or in the immediate neighborhood of a joint. Pressing upon a ligament or tendon, it may cause inilamation of those substances; or, being close to In political matters, we are frequently a joint, it may interfere with its action. Splints, told of how much has been accomplished then, do not necessarily cause unsoundness, and by a single vote, and the fact has been may not lessen in the slightest degree the action or value of the horse. All depends on their atuation."

while to meddle with them, is exceedingly simple. The hair should be closely shaved off round the tumor; a little strong mercurial ointment rubbed in for two days; and this should be bllowed by an active blister. If the splint be the neglect or use of individual effort,

ble resource under pecuniary misfortune, must be of recent formation, it will usually yield to thus. or to a second blister. Should it resist these terially with the action of the suspensory ligament; for it not unfrequently happens, that, although the splint may have opparently resisted this treatment, it will afterwards, and at no great distance of time, begin rapidly to lessen, and quite disappear."-Alb. Cult.

INDIVIDUAL EFFOI'T.

Every thing is accomplished by it—no great reform or plan for the improvment of mankind was ever originated and carried forward, save by individual effort. The masses never start up in a body and adopt this or that mode of reform, moral or political-there must be a pioneer, a leader, one to start the thing; and after him many more to put their shoulders to with the truth of a thing, we should not wait for our neighbour or neighbours to whose habits and prejudices run counter

Many people, however deeply the necessity of reform or improvement may be felt by them, ha : not the courage to encounter difficulties by acting up to their sense of right, especially if the sense of right be opposed to the habits and preju-The periosteum or membrane dices of those around them. What can al effort the most stupendous undertakings are carried forward to successful issue. over and over again proved that the most simple and apparently unimportant act of "The treatment of splints, if it be worth our lives has exerted the greatest influence, not only over them, but on the destinies of others. We cannot calculate the amount of good or evil that flows from

Often times the neglect of doing what we sorry to remark, that the receivers of Colonial know to be right, is productive of more evil than a positive wrong. We are therefore called upon to do whatsoever our reason teaches us to be right, as well as to abstain from what we know to be wrong.

Every man should feel that he is individually responsible for his acts, and that because others dowhat his judgment teach- a strong prejudice with our dealers against many es him to be wrong, it is no excuse for him to follow in their track. supinely Every man should think for himself, and manner in which the process of flouring has been so thinking should act. In political mat-ters, his vote should be given according ply of the raw mater ' upon an extent of power to the dictates of his judgment, regardless of how others vote around him-it is his privilege, the sign of his freedom, and he tural cooling [much preferable to any artificial knows not how much, in the aggregate, process] is more especially necessary. may depend upon this individual exercise of his will. In morals, in religion, depreciation of this season's riour, non wheat it is the same. .'he individual is accont- have been mostly of good quality and landed in ponsibility that attaches to him, or fancy, our part urgently to impress upon the Canadian that the humbleness of his situation is millers the parter of the second state. that the humbleness of his situation in life deprives him of the rights and privi-leges of manhood, or exempts him from a course must re-act upon the mathematical performance of the during held to. we are all equal, and the most important results may (and more frequently do) hinge upon the actions of a poor man, as well as upon those of his richer neighbor. Let us never forfeit our independence and manhood by supineness or fawning, or forget how much may be accomplished by individual effort .- Boston Bee.

IMPOR ATION OF CANADIAN FLOUR INTO ENGLANL

Sir Robert Peel's Canadian Corn Bill has, in the past six months, come into practical operation to a considerable extent. By the last returns received from Montreal, we find the exports from the St. Lawrence, since the opening of the navigation to the 11th September, comprise

Bushels Wheat. 241,276 against 15,417 Barrels Flour. 351,692 57,497

in the same period of last year, which is evidence sufficient of the large and growing trade we may look for from this measure. The natural causes | strosity ? but if we tell them at the mame time. which have tended so materially to depress our where they can procure such breeds, and how they home markets, in the same period, could not in the, course of things, leave any other than indifferent | their hands, that will enable them to derive a result to the exports from Canada; but we are practical benefit from the communication.

Flour have had other difficulties, independent of the adverse course of the market, to contend with -the quality, on arrival, having proved worse than any previous year within recollection. Fully three-fifths of the shipments, since the middle of June, have arrived quite in bad condition, being more or less heated and sour; the consequence has been the sale of considerable quantities at minous prices, varying from 21s. to 23s. per barrel -besides establishing [we trust only temporarily] brands that are intrinsically good, and deserving of a fair price for baker's use. The only way we can account for this unpleasant fact, is the burried inadequate to its proper manufacture; and the consequent dressing, packing, and shipping Flour in a warm state at a period of the year when na-We are the more inclined thus to account for the great millers the necessity of much greater care for the course must re-act upon themselves in the fuilingperformance of the duties belonging there- confidence that will prevail among the buyers. In a moral or political point of view, both here and in the provinces; leading, as it assuredly will, to a lower range of prices for their staple export than greater care would insure them. -Wilmer and Smith, October 12.

> A Word to Correspondents of Agricultural Papers.—For the purpose of making every communication which may appear as useful as possible to readers, we would suggest a careful attention to the following particulars.

> 1. In giving the weight of Animals, state their age; 2, breed. 3, quality of carcass if dead, or appearance and shape if alive ; 4, manner of feeding and treatment—mentioning especially any derivation from the ordinary course pursued in rearing or fattening them.

> If Crops, specify, 1, the exact kind of variety, 2, where the seed was obtained, and of whom; 3, kind of soil; 4, mode of culture, including a statement of the previous condition of the ground, kind and quantities of manure added, &c.

> The purpose should not be to amuse so much as to interest, and to publish that such a person has raised an Ox, weighing 4000lbs.; a Hog. 1500; or a Sheep, 200; or had sheared 16lbs. of clear Wool, is to inform them simply of a monmay attain such weights, we place information m

PROVINCIAL AGRICULTURAL SOCIETY

Scarcely mention has of late been made of the proposed National Agricultural Institution which attracted some attention during the early part of last winter, and which ere this would have been established in Canada, had the leading agriculturists been more united and zealous in Unless there be passed a the cause. special Provincial enactment, embracing a very liberal endowment to such institution, we think it scarcely practicable to enlist any considerable portion of the farmers of this country in its ranks. This opinion has not been formed without due consideration; but aside from our views upon the subject, if others think proper to take the lead in the matter, we would be most happy in lending our aid to establish an association that would have for its object the concentration of the talent, skill, and enterprise of the country, into one common focus, for the general good. Such a society, however, cannot be formed without a considerable exertion and personal sacrifice on the part of those who take the lead in its organization, and probably in the meantime it would be advisable for all who wish to see the cause of agricultural improvement progress, to lend their aid in establishing District Societies, with branches in the Townships, something after the plan that we have a variety, that has been highly extolled so frequently set forth to the public; and of late in the American agricultural paby this means the people will gradually pers, and we doubt not but that it would be prepared to appreciate the advantages prove a valuable acquisition to the farthat would result from a National Insti- mers of Canada; but we think it would tution. Societies are established upon a sound of this or any other description of grain, basis, then may we hope to see the Grand Juntil its adaptation to our climate had Provincial Agricultural Society organ-become fully known and established. ized upon a scale commensurate with There would be less danger, however, in the importance of such a laudable insti-limporting seeds from the Northern and

gest to each of the present subscribers of the Cultivator, the propriety of stimulating their neighbours to vigilant action and co-operation in the great and patris otic enterprise of establishing the above description of institutions in their several localities. The ground-work of the plan has been previously published, and has received a pretty general approval of the agricultural societies already in existence; but in consequence of the great apathy so generally manifested by the agriculturists themselves, in this important matter, it has not been carried into operation to that extent that was anticipated by its projectors : we would therefore urge upon our friends to renew their energies in the cause,—and at no period can it be so easily accomplished as the present winter. If a general effort be used in favor of District and Township Societies, and those efforts prove successful, it is highly probable that a Provincial Society will be organised before the expiration of the ensuing twelvemonth.

BLACK SEA WHEAT.

We have much pleasure in giving insertion to the following correspondence, and beg to offer a few remarks upon the very important subject of introducing a change of seeds, roots, &c., cultivated in this country. The Black Sea Wheat is When District and Township be injudicious to import a large quantity tution. We would, therefore, beg to sug-'Western States, and from the extreme

northern countries of Europe, than from profitably be sown in this country in southern climates. In illustration of this assertion, we would mention a few facts that came under our especial observation. We purchased last spring two pecks of the celebrated Bellevue Talavera spring wheat, which was sowed very early upon a piece of land in a very high state of oultivation, and although a very heavy tain if equally as valuable specimens top dressing of soot was applied to the could not be purchased from parties recrop in the early part of the season, it siding in their own country. To our only came out in ear in September. certain knowledge a vast improvement in This experiment proved a total failure, agriculture would be effected, if the and at the same time a considerable loss. choicest descriptions of grains and stock, This variety of wheat is invaluable where fruit, &c., in the country, were generally it is adapted to the soil and climate, but in the hands of our farmers; and this it is clear that it is not sufficiently hardy great work of improvement can easily be for a winter variety, nor is it suited to accomplished, if only the agriculturists the short summers of this province, to be would become a reading and thinking sown in the spring. A friend of ours community. Now, after all that has residing in the Gore District, sowed been said about agricultural improvethe whole were justly celebrated in the and wherefore,—if they will not read and country from whence they were imported. enquire into the causes and effects of re-It is scarcely necessary to adduce fur-sults, which affect their honourable prother proof of the caution that is necessary fessions,-we can only say, to make the to be observed in importing seed grains least of it, that they little know their own from foreign countries.

The principle advocated by our csteemed friend and correspondent, is not vourable reception that the Cultivator has only worthy the adoption of every agri-cultural society in the province, but land, and trust that instead of 200 copies should be practiced by every individual being taken by the Northumberland Agrifarmer—we mean the principle of chang-ing seeds, or sowing them alternately yaar, that 1000 copies will be subscribed upon soils of different qualities, and pro-curing choice or colebrated varieties ty and the Branch Societies collectively, from foreign countries. In our humble which they propose establishing this win-opinion, in importing seeds from foreign ter. If such a thing were practicable, in countries, small samples only should at first be distributed among the agricultu-rists; but very honourable exceptions, however, may be made to this rule—the "Black Sea Wheat," the "Mediterra-nean Wheat." and the "Improved White nean Wheat," and the "Improved White through these two means alone, the stim-Flint," all of which varieties are most ulus for improvement would be so successfully grown in the north-east-great, that the products of the country ern portion of New York, might very would very shortly be doubled. As an

large quantities. The same might be said, no doubt, with regard to other descriptions of this valuable grain, with which we are not acquainted. Before either societies or individuals resolve to send large sums of money out of the Province for the purchase of valuable seeds or animals, we would advise them to make the necessary enquiry, to ascerabout thirty varieties of imported wheat, ment, this appears to be the grand fuland was very particular in the manage-ment of the whole of the samples, and or supported. If farmers will resolve from this thirty varieties sown, only two proved worthy of cultivation, although opinions, without examining into the why interests.

We are highly flattered, with the fa-

A CALL STORE

that County, as well as other portions of the Provinces, to make a joint, united, and vigorous effort to place the Cultiva- N. Y. tor in the hands of every individual who is capable of reading, we would take this opportunity of informing them, that we have means at our disposal which will enable us to make our Journal one of the most useful, and practical and cheapest agricultural papers published in the English language.

and valuable breeds of live stock, by est number of new seeds or varieties of grain or agricultural societies, the most improved valuable breeds of stock. descriptions of farming implements might, there purchase some new variety, by which means he nurchased from the maltern and sold be purchased from the makers and sold the country is not as yet absolutely bankrupt; to farmers or members of the societies at | but we are now so run down, that this partial suptheir original cost. We hold it to be an ply is manifestly inadequate; and a combined improvident expenditure of money, for an for the full attainment of this object has become agricultural society to invest large sum agricultural society to invest large sums appointely indispensable. of money for the purchase of any article of improvement unless there be a certain- and yet so slowly, that none but the vigilant, ty of the money so expended reverting back to the society for the legitimate purpose for which it was subscribed and to make any effort to arrest its progress. granted. It is, however, neither our wish nor province to dictate to the agricultu-lif they could be prevailed upon to spend two or ral societies how they shall dispose of three hours once a month to attend a township their funds ; but, as a friend to agricul- | club or other meetings, for the discussion of agriture, we feel no scruples in asserting be left to themselves; but deplorable it is to say, that the money laid out in the purch of seeds, live stock, and implements. uv happy to say, that a very great improvement in associations, might be returned to the so- | reading, which I consider the foundation upon cieties for premiums, without diminishing which agriculture must rest, has taken place in the value or importance of the services aware 200 copies of the *Cultivator* is taken by rendered. rendered. First convince the members our society, where three years ago, not one was of the society, through the information ob. taken. To return from this digression: Mr. of the society, through the information ob- | taken. tained in the agricultural journal the necessity of improvement, and then we pledge our word for it, there will be a he believes that his county has made a clear gain, grand turn out to attend the public sales over and above what it otherwise would have of articles imported for their benefit. There are many other points in the subjoined correspondence, which, if space would permit, we would feel a pleasure in offering a few remarks, but suffice it to say. for the present, that the public are under high obligations to Mr. Ruttan, for the very able manner in which he has brought this important subject before their notice.

To the Editor of the B. A. Cultivator. Sir,-The writer of the letter of which the sub-

additional inducement for our friends in joined is an extract, is a gentleman extensively engaged in farming operations, and withal belonging to one of the learned professions, and president of the Jefferson County Agriculturel Society,

I presume no apology is necessary for introducing the subject of an improvement in our seeds to your readers; every observing man must be more and more convinced from the last two or three years' experiments, that our seeds are what is usually termed nearly "run out," and that an immediate effort should be made for their restoration, otherwise I am convinced that the effect will be ruinously felt within a very few years. the English language. The greatest benefactors to any agricultural In addition to the purchase of seeds, country are those who introduce into it the great-It is true, that now

> The'process of deterioration goes on surely, active, zealous, and intelligent farmers, such as Mr. Clarke, can perceive its downward course; and it follows that none but such can be expected

> If our farmers generally were reading-men,cultural subjects, all these matters might safely -this is not the case as yet,--though I am Clarke informs me that he sows one and a half bushels of the Odessa (or black sea) wheat upon an acre; and since he precured his twelve quart raised, of one million of bushels!

Having successfully introduced several new breeds of cattle, our society intends devoting nearly all its available funds in the importation of new seeds for the next season, from Great Britain and the United States; and it is to be hoped that other agricultural societies will direct their ener-gies to the same object. The gradual failure of the potatce crop in Western and Northern America, should open our eyes to the necessity of immediate action; and it is not the potatoe alone which requires renewing, but the whole of our seeds, grains as well as grasses, are what is usu-ally termed "run out."

The general introduction of new seeds is always,

and in all countries, a work of time. It has taken Mr. Clarke nine years to spread this wheat pecks, on an acre, and put pulverised charcoal over his county since he got his twelve quarts; into the hills, also a little lime. I have observed and do the best we can, we must expect to be a few hills where charcoal and lime had accinearly the same time in obtaining for it a general reception, so that not a moment is to be lost. With this district, in which the Siberian wheat has been introduced about five years, it is somewhat different from other parts of the province, as the Black Sea Wheat which is now being distributed will be about in time to succeed that; but with the province generally a united effort on the part of the agricultural societies only can save us from an incalculable loss; and if they do not now step forward in the matter, I can only say, that they are not carrying out the intention of their constitution by the Legislature in the munificent aid which has been afforded them.

to add, that no opportunity should be lost-no expense spared by the farmers in procuring new mass be covered. It must undergo a second kneading before formed into loaves for the oven. it at any cost; and although it may be as "bread The more bread is kneaded the better it will be. cast upon the waters," it will be found again, an hundred fold increased in a much shorter time than may be generally imagined.

Cobourg Oct. 31st, 1844 H. RUTTAN.

(Copy of Extract.)

H. RUTTAN, ESQ.,

Dear Sir,-In answer to your favor of the 19th October, 1844, I have to state, that nine years since I introduced the Black Sea Wheat into the county of Jefferson. It was imported the year before from Odessa. I obtained mine from the first crop of the importer.

It is a white chaff-bald wheat, with a strong stout straw.

I sowed twelve quarts (all I had) upon a piece of very well-prepared ground, on the 25th of May, and I obtained twelve bushels.

I sowed again, the 23rd of May the next year, and from an acre of the best, I obtained forty bushels. The next year, I sowed four acres in April; the ground was in the very best order, and I obtained two hundred bushels from the four acres. It was as stout a field of wheat as I ever saw. All these crops were raised in good ground, and under very high cultivation, and the seasons were favourable.

I have never failed to raise a good crop; it has never shrunk or been smutty under my cultivation, and my whole crops have averaged over twenty bushels to the acre. I consider it the best spring wheat that I have seen, as to quality, certainty, and quantity.

I never sow it except after a well hoed crop, though many summer fallow and sow the wheat in the spring. It is much less liable to rust than any other variety of wheat that I am acquainted with, which I attribute to its being about ten days carlier, and also to the strong firm straw.

the potetoe; it prevails over several States;—it Suman quantity Advertizer, We are troubled with the same disease with is no doubt an epidemic,

I intend to sow next spring, salt, say three dentally been spread, that the disease did not prevail.

In the meantime. I remain with great respect, your obedient servant,

(Signed)

CHARLES E. CLARKE.

To make Good Bread .- To make good bread, good flour, good yeast, and good management are required. One of the simplest processes of making it is as follows: To 8 quarts of flour, add 3 ounces of salt, 11 pint of yeast, and 3 quarts of water, of moderate temperature, and the whole being well mixed and kneaded, and set by in a proper tem-From what has been said, it is needless for me perature, will rise in about an hour, or a little more. It will rise better and more equally if the mass be covered. It must undergo a second Be careful not to allow it to become sour in rising. Milk will make white bread, but it will not be sweet, and dries quicker than when made with water. If loaves are lightly gashed with a knife around the edges before they are put into the oven, cracking will be avoided in baking. From an an hour to an hour and a half is required to bake bread fully .- Am. Ag.

> Useful Recipe.-I send you below, Messrs. Editors, a recipe for making a composition which will render wood entirely incombustible. It is very simply prepared, and quite easy of application, being used the same as paint with an ordinary brush. A good coat of it applied to the floor under the stoves would be an excellent precaution.

> Take a quantity of water proportioned to the surface of wood you may wish to cover, and add to it as much potash as can be dissolved therein. When the water will dissolve no more potash, stir into the solution, first a quantity of flour paste of the consistency of common painter's size; second, a sufficiency of pure clay to render it of the consistency of cream.

When the clay is well mixed, apply the preparation, as before directed, to the wood; it will secure it from the action of . both fire and rain. In a most violent fire, wood thus saturated may be carbonated but will never blaze.

If desirable, a most agreeable color can be given to the preparation by adding a small quantity of red or yellow ochre.---



CHEMISTRY MADE EASY FOR THEUSE OF THE AGRICULTURIST.

By the Rev. J. Topham, London, England.

In a late number of the Farmer's Herald, the editor acknowledges the receipt of a little work entitled as above, from which he gives a few extracts. If the following be a fair specimen of this practical work, we would like well to have the pleasure of its perusal, so that we might be able to condense the most important parts in the columns of the Cultivator.

The first quotation is of itself worth pounds to the practical farmer, as it will enable him to ascertain the amount of lime in the subsoil, which lies directly underneath the surface or active soil he oultivates. If his soil be deficient in this essential substance, and that portion of the subsoil which may be reached with as if it had been charred by a fire. the plough contains it in abundance, it is obvious that deep ploughing would be the cheapest and best mode of improving such land.

surface or subsoil, the skilful farmer will! at once see the propriety of applying a dressing of lime or marl, the latter, if rich in carbonate of lime, would be the most economical, if it could be procured farm for the mere expense of carriage.

Numerous beds of marl may be met with in various portions of the Province, being rich in carbonate and phosphate of line and decayed animal substance, which are at present considered of no available value; by testing specimens of these marls as described, their richness in lime may be known, and a few experiments in a small way upon the various crops cultivated, would soon establish their value in the estimation of the experimenter.

" Dissolve any given quantity of marl, in diluted muriatic acid, your off the fluid from the undissolved matter, and to it add a small portion of common potash, dissolved in water ; lime, which makes it valuable, will be thrown down or precipitated, and the proportion present can be thus proportioned. The muriatic acid having a greater affinity for potash than for lime, deserts the latter, and combines with the former.

" In stables, wherein a powerful smell of hartshorn, (ammonia,) is perceptible; if an ounce of muriatic acid, (on a plate,) be placed therein, dense white fumes will be seen in its neighbourhood, which are devoid of all smell. This is muriate of ammonia. The acid having a strong affinity for this alkali, has attracted and retained it. And I here venture to suggest, that if in stables, the floors were occasionally sprinkled with water, containing muriatic acid, to the proportion of two ounces of the latter to a gallon of the former, the smell would pe considerably destroyed, and the injurious influence of the ammonia, upon the horses, be greatly weakened.

" If an ounce of oil of vitriol, be poured into three separate wine glasses, and in the first there is inserted a piece of straw; in the second is placed a small portion of cork ; and into the third, is dropped a lump of loaf-sugar; the three substances will become black ; the straw appearing

"The oil of vitriol, (sulph. acid) has, in these three instances, united with the constituents of these several substances, except their carbon, which imparts the well-known black colour of charcoal to the parts remaining. In the instance of the sugar, which is composed of carbon and of Where this soil abounds in neither the water, it has merely abstracted the elements of the water, (hydrogen and oxygen,) and left the carbon untouched.

" If a small quantity of oak sawdust, well pressed into the bowl of a large tobaco-pipe, (the mouth of which is closely coated over with pipe-clay,) be submitted to the action of a clear fire, a species of vinegar, (pyroligneous acid,) will be distilled from the end of the tube, ard charcoal be found within a convenient distance from the remaining after the operation is concluded: which charcoal, when burnt in the open air, will leave a small residue of white ashes, containing potash and a very minute quantity of insoluble matter, consisting principally of lime.

"These latter mineral substances not being destructible by fire, are styled inorganic constituents of plants, whilst those which are resolvable into elementary bodies, and fly off to form new combinations, (as carbonic acid, &c.,) are termed organic substances. Thus by ascertaining what are the elementary principles of which vegetable substances are constituted, we are enabled to form a tolerably correct opinion of the species of manure, that will best promote their health and vigorous growth."

Did you ever see a man prosper in business, who was in the habit of borrowing money at more than six per cent?

F.\RMERS' CLUBS

Gloucester;-The following paper on The Best and Cheapest Means of Carrying Stock through Winter during Scarcity of Hay and Roots, was read by Mr. Gyde, of Painswick, at the late meeting of this Club.

My object is to draw attention to those substances produced on the farm, which are capable of being substituted for hay and roots as food for cattle, and to point out the quantities which practice, as well as science, would indicate as equivafent to good meadow hay, in feeding properties. The a paper which I formerly read before you, I showed you how the doctrines of Animal Physio-logy might be applied to the feeding of eattle. It 1 1 will be necessary to briefly review the leading points then alluded to. The body of an animal may be divided into three distinct classes of matter, namely, the muscular portion, including all, those structures containing nitrogen; the fatty, portion, which is devoid of nitrogen; and the earthy and saline portion, consisting of saline mat- starch, gum, and sugar of the food consumed .-ter and bone. Until within the last few years physiologists supposed that the food underwent, in the stomach of the animal. some change during the process of digestion; that the stomach, in fact, had the power of making out of the Grass and roots taken as food, those substances of which its body was composed; this power they termed the vis vitæ. But the investigations of modern chemists show that no chemical alteration takes place in the constituents of substances during digestion, but that the elements of the animal body are prepared and elaborated in the vegetable. In the vegetable, we find a principle identical in composition with the muscle of the animal, and known as gluten, vegetable albumen and casein. We have carbon for combustion in the lungs to keep up animal heat, supplied in the starch, gum, and sugar of the plant ; and we have also oil for the purpose of forming fat, with earthy and saline matter for the bone and blood; these substances are all that the animal requires, of which to build up its a little starch, and much salme and earthy matter. structure. necessary to ascertain the amount of those constituents of the body daily thrown out of the system by the various channels of waste, to enable us to point out, with some truth, the quantities of each substance that is necessary to replace the daily loss ducts of the farm (See Table, No. 1,) and the in the animal economy: or, in other words, to amount of these constituents contained in the prosay how much gluten and starch of the vegetable will be required to supply the waste of muscular and other constituents of the animal. Practice says that an ox requires 2 per cent. of his live weight in hay per day; if he works, he requires dition by supplying with gluten, starch, and saline 21 per cent: a milch-cow, 3 per cent : a fatting matter, the natural waste of the body, or he may ox, 5 per cent. at first, 41 per cent. when half fat, fatten, by increasing the amount of food, particuand only 4 per cent. when fat, or 41 on an average. Sheep grown up take 31 per cent. of their age. Dneep grown up take of per condition; adhering to one article of diet, since it rarely oc-and growing animals should never be stinted, curs that one contains all those substances requir-and by the animal, and without which healthy and Science has ascertained, by the most carefullyconducted experiments, that a full-grown man vigorous life cannot be sustained for any consider-voids, in his urine alone, about 1 oz. of nitrogen able time, every 24 hours, and that a small quantity passes

off in the solid excretions and by the skin. The carbon consumed by the lungs to keep up animal heat, averages about 11 ounces in the 24 hours; and the saline and earthy matter voided is in direct proportion to the amount taken in the food. It appears that the food consumed by an ox, horse, or sheep, is in direct proportion to their weights when compared with man. Hence we find that an ox would require, to replace the daily loss of muscular fibre, from 20 to 24 ounces of dry gluten or vegetable albumen which would be supplied in

120 lbs. of Turnips	17
15 lbs. of Wheat-straw	12
75 lbs. of Carrots	12
67 lbs. of Potatoes	10

20 lbs. of Meadow-hay!

lbs. of Pea-straw lbs. of Barley

lbs. of Clover-hay

) lbs. of Oats

5 lbs. of Beans

The consumption of carbon by a cow amounts to 70 ounces; and that of a horse to 83 ounces on an average in 24 hours, which is supplied by the Fatty matter is required to supply the fat of the animal, and this also exists more or less abundantly in all vegetable food. Earthy phosphates and saline substances are found in the organic portion of all vegetables, and these supply the daily waste of bone, &c., of the body. Hence we see that the animal requires a variety of substances, all of which exist in greater or less abundance in its daily food. In one article of diet we find one substance in abundance, and in another other substances., Thus, farinaceous seeds are made up of starch and vegetable albumen or gluten, with much fatty matter and phosphates. In the oily seeds, as Lint-seed, Hemp-seed, &c., the predominating ingredient is oil, and matter called casein, which is capable of supplying muscle. In the Potato, starch is the ingredient in greatest quantity, combined with vegetable albumen. In the Turnip, sugar and guin supply the place of starch; and in the Grasses and Clovers, woody fibre with albumen, This being admitted, it only becomes From a knowledge of these facts, with the assistance of the acompanying Tables, which show the quantities of water, woody fibre, starch or gum, gluten, albumen or casein, fatty matter, and saline matter, contained in 100 lbs. of most of the produce per acre (see Table, No. 2,) the judicious feeder will be enabled so to mix those crops which he has at his command as to render everything available as food. He may keep his stock in conlarly those articles containing much fat; always remembering that a mixture of food is better than ed by the animal, and without which healthy and

					pur to 0							<u> </u>	
					Water.	Woody Fibre.	Starch, Gum, or Sugar.	Gluten	or Albumen.		Fatty Matter.		Saline Matter.
Wheat	•	•	•		16	15	55	10	to 15	2	to	4	2.0
Barley	•			Į	15	15	60		12?	1	2.5		2.0
Oats .					16	20	50		4.5		5.6		3.5
Rye .	•			[12	10	60		1.5		3.0	1	1.0
Indian Corn	•	•		1	14	15	50		2.0	5	to	9	1.5
Beans,				}	16	10	40	2		1	2		3.0
Peas .	•	•			13	8	50	2			2.8		2.8
Potatoes	•	•			75		12		2.25		0.3		1
Turuips .	•	•			85	5 3 3	10		1.2	ł	8		1
Carrots			. 1		85	3	10		2		.4		1
Meadow Hay	•	•			14	30	40		7.1	2	to	5	5 to 10
Clover Hay	•	•			14	25	40		9.3		3.0		9
Pea Straw		•		10	to 15	25	45		2.3	{	1.5		5
Oat Straw			. 1		12	45	35		1.3	I	.8		6
Wheat Straw .		•	.	12	to 15	50	30		1.3		.8		5
Barley Straw .	•				do	50	30		1.3	{	.8		5
Ryc Straw .		•	. 1		do	45	38		.3	1	.5		3
Indian Corn St	raw	•	<u> </u>		12	25	52		3.0		1.7		4

TABLE I. Showing the Composition of 100 parts of the more commonly cultivated crops.

TABLE II.

Average Produce of Nutritive Matter of different kinds from an acre of usually cultivated crops.

			ross duce.	Huck, or Woody Fibre.	Starch, Gum, or Sugar.	Gluten.	Fat.	Saline Matter.
Wheat	• •	bush.) lbs.	lbs.	lbs.	lbs.	lbs.	ibs.
····· .		25	1500		825	150 to 220		30
Barley		30	1800		990	180 to 260		36
		35	1800		1080	216	45	36
Oats		40	2100		1260	252	52	42
		40	1700		850	230 3	95	60
Rye		50	2100		1050	290 ?	118	75
		25	1300		780	190	40	13
Indian Corn		30	1600		960	230	48	16
Buckwheat		30	1800		900	216	90 to 170	- 27
Beans		30	1300	320?	650	180	5	21
		25	1600	160	640	450	32	49
Peas		30	1900	190	760	530	36	57
<u> </u>		25	1600	130	800	380	45	45
		tns.						
Potatocs		6	13,500	675	1620	300	45	120
	• •	12	27,000	1350	3240	600	90	240
Turnips	•	20	45,000	1350	4500	540?	?	400
'	•	30	67,000	2010	6700	800?	?	600
Carrots	•	25	56,000	1680	5600	1120 ?	200	560
Meadow Ha	¥.		340(1020	1360	240	70 to 170	.220
Clover Hay	•	$\frac{11}{2}$	450()	1120	1800	420	135 to 225	400
Pea Straw	• •		270(675	1200	330	40	135
Wheat Stray	× .		300(1500	900	40	15	150
	•		360(1800	1080	48	18	180
Oat Straw			2700	1210	950	36	20	135
	•		3500	1570	1200	48	28	175
Barley Strav	₹.		2101	1050	630	28	16	105
	•		250(1250	750	33	20	125
Rye Straw	•		400t	1800	1500	53	20	120
	•		4801	2200	1800	64	24	145

TABLE III.

Showing the relative	value of	diffe	rent arti-
cles of Food. as	ascertaine	d by	practice;
good meadow Hay	oeing tak	en at	TOO

Hay	•	•	•	•	••	•	100
Clover Hay	•		•	•	80	to	100
Green Clover	•	•	٠	•	450	to	500
Wheat Straw				•	400	to	500
Barley Straw		•		•	200	to	400
Oat Straw		•		•	200	to	400
Pea Straw	•	•	•	•	100	to	150
Potatoes		•		•	•	•	200
Old Potatoes			•	•	•	•	400
Carrots .	•	•	•	•	250	to	300
Turnips .			•	•		•	500
Cabbage .				•	200	to	300
Peas and Bea	ns		•	•	30	to	50
Wheat .	•		•	•	50	to	60
Barley .		•	-	•	50	to	60
Oats .				-	40	to	70
Indian Corn	•	•	-	•			50
Oil Cake.	•	•	•	•	20	Ю	40
AT ACTO		•	•	•	~~	~	* *

The above Table represents the average results from a number of experiments made in France and Hollaud.

TABLE IV.

Showing the amount of different articles of food of equal value as indicated by theory; good meadow Hay being taken at 100.

Hay .			•	•	•		100
Clover Hay		•	•		•	•	80
Vetch Hay		•	•	•	•	•	40
Wheat Stray	۴.	٠		٠	•	•	520
Barley Strav	7' 💊	•	٠	•	•	•	520
Oat Straw	•	•	•	•	•	•	550
Pea Straw	•	٠	•	•	•	•	60
Potatoes •	•	•	•	•	•	•	280
Old Potatoe	5.	•	•	•	•	•	400
Turnips .	•	•	•	•	•	•	600
Carrots .	•	•	,	•	٠	•	350
Cabbage.	•	•	•	÷	300	to	400
Peas and Be	ans	•	•	•	20	to	30
Wheat .	•	٠	•	٠	•	•	50
Barley .	•		۰.	•	•	•	60
Oats .	•	•	•	/ •	•	•	50
Indian Corn	٠	•	•	•		•	60
Oil Cake	•	•	•		•	•	20

This Table represents the supposed value as food of the different articles, calculated from the amount of muscle-forming principle, they are capable of yielding to the animal.

Maple Sugar .- The science is very imperfectly nnderstood, and great improvements canand ought to be made in the manufacture of it. The difference in the yield of sugar from a given quantity of sap, is owing to its possessing more or less acid, which lessens the quantity of sugar and injures the quality. This acid is corrected by putting into a pound of sugar to the gallon, of better quality in value, and after this, guano, which is the mathan it would without the lime water.

THE ARTICHOKE.

Several trials which we have known made with this root, indicate that it is one of the most valuable for stock, which can be cultivated. At few years ago, a gentleman of our acquaint-ance planted a small patch of rich ground with them. The produce was at the rate of 1,200 bushels per acre. They were principally harvested by hogs, which were turned in and allowed to root them up as their appetite prompted. They gained well, with no other food, while the artichokes lasted. A great advantage of this root is, that it will lie in the ground without injury all winter.

Mr. Thomas Noble, of Massillon, gave us a brief account of a trial with artichokes, made by him the past season. In April, 1843, he planted two acres with this vegetable. The ground was of a medium quality. The artichokes were planted in rows 21 to 3 feet apart ---using a little more seed than is commonly used in planting potatoes. As soon as the frost was out of the ground last spring, (1844,) the digging of them was begun and continued as the stock required. The produce of the two acres was 1500 bushels. They were fed principally to slicep, though some were given to cattle, horses, and hogs. All animals ate them . well, seeming to prefer them to turnips. While the sheep were being fed with them, they were pastured on growing wheat and clover. The shepherd thought the wheat and clover was sufficient for them, as there was a full "bite," and he accordingly discontinued the artichokes. The ewes "fell off" in their milk, and the lambs soon showed that they were not doing so well. The artichokes were again given, and they zoon did as well as ever.

Mr. Noble also used the tops for fodder. He cut them in October, just before frost came, dried and housed them. They were fed to the stock in winter, and were evidently preferred to corn fodder.

Mr. N. is so well pleased with artichokes, that he is raising them this year on a large scale. They require but little cultivation; it being only necessary to keep the ground clear of weeds till the artichokes get a good start.

Mr. T. M. Johnson, of Greensboro,' Alabama, lately informed us, that he is this year growing 30 acres of artichokes. He considers them the most profitable vegetable he can raise. In that climate they can be dug any time in the winter.

There are several varieties of antichokos, but that called the Jerusalem antichoke (Helianthus tuberosus) is considered best. From the fibres of the tops or stems, a cordage is sometimes manufactured in some part of Europe.-Alb. Cult.

Manure for Melons.-The best is pigeon dung, the sap when used, one onnce of Lime Water to, and from the use of this, it is said the Persian fruit " avery gallon, when it will uniformly produce half derives its superiority. Hen dung is probably next nure of sea fowls.-Am. Ag.

CURING AND PACKING PROVISIONS! Circular.

The experience we have had in the Produce Business assures us that a few hints on curing and consists in the certainty of the meat keeping in packing provisions for the English market, will be interesting, and probably of value.

Any improvement in these matters will be amply repaid by the more speedy sale and higher prices which the articles would command, even for home consumption. But the importance of the improvement is greatly increased by the fact. that the demand for provisions for Europe is steadily increasing; and that for the West India, the South America, the East India markets, is always large, and ordinarily requires those which are best cured and packed. It is our intention to enlarge our operations with foreign buyers; and if those in the country who send us their articles for sale will be careful in curing and packing them, the interests of all parties will be advanced.

An American gentleman who has paid much attention to this subject in England, thus writes :

"Pork is cut into four or six pound pieces, according to the size of the hog. Where the carcass weighs two hundred and fifty and under, it is cut into four-pound pieces; large hogs are cut into slx-pound pieces. The hog is first split through the back-bone in half; then passed to the trimming block, where the half-head and legs are cut off, the leaf and tender loin taken out, and the whole side split lengthwise through both the shoulder and ham, and as near the centre as is consistent with the proper shape and size of the different From the trimming block the strips pass nieces. to the scales, where the weight is ascertained, and called to the man at the cutting-block, who divides each strip into the requisite sized pieces. Both the splitting and piercing require skill and judgment, as much depends upon having the pieces well and sizably cut. From thence it goes | fore, various classes of bacon pork. Tierces conto the rubbing-table, where each piece is thoroughly rabbed in salt in the same manner as in curing bacon. After the salt has been well rubbed in, it is put into pickling tubs, holding from have not less than three hundred pounds, and shree to five handred pounds, well covered with silt, but no water or brine added. Here they remain from eight to ten days. It is then taken to the washing trough or vat, where each piece is part of the hog's head is allowed in any instance. thoroughly washed in clean brine, trimmed, and tormented, as the process of trying is called. The tormentor is an insumment of wood or metal, the size of a small dish, and is thrust into the lean parts of each piece, to accertain that it is properly cured and free from taint. It is then messed saltpetre added at the rate of a common wine-glass ' ten pieces, consisting of four chines, two mouse pounded in by a heavy iron weight, and capped up to the neck, with bone taken out; no shins, with coarse sait. It is then passed to the cooper thigh-bones, or necks. To be well salted, and

who puts in the head, and puts on to the barrel; capped with St. Ubes, or other coarse salt. one, and on to the tierce at least three iron hoops! "Atierce of prime mess beef should contain 38

clean strong brine, bunged tight, branded, and is then ready for market."

"The great utility of this method of curing good condition for years in any climate. The i blood gets all drained out of the meat before it is barreled, and hence one great cause of injury is avoided. I saw pork and beef which had been two years in the barrel, which was as sweet as when first put up, and the brine was perfectly clear. A friend in London unpacked several packages of Irish and Hamburgh cured provisions by the side of the American. The contrast was any thing but flattering to our taste and skill. I could very readily see why our beef and pork bore so had a name in the market, and was so-much of a drug. The meatwas not inferior, but it was badly messed, worse cut and cured, and the brine nearly as red as blood, and presenting, by the side of the other, not a very palatable appearance. The large hogs, or heavy pork, which is uniformly cut in six-pound pieces, is packed in tierces, and is then called India or Navy pork. The fourpound pieces are put in barrels,"

"A barrel of prime pork should contain from 25 to 30 pieces, cut from the ribs, loins, chines, and belly pieces, all lying between the ham and shoulder, forming what is called the broadside or Three hands and two hind-leg pieces, middle. or three hind-leg pieces and two hands, and fifteen or twenty pieces from other parts of the hog, except no part of the head. The meat must be of prime-quality, firm, and well fattened, cut into four-pound pieces, exactly fifty to the barrel, and weigh not less than two hundred pounds nett, and must have a good' capping of St. Ubes, or other This is indispensible. Bacon mess coarse salt. pork is so called when the full proportion of prime pieces in prime mess is withheld ; there are, theretain the same number-that is, fifty pieces of sixpounds, and the same rules as to messing are to be observed as in the barrel. The tierces must well capped with salt. It is usual to put in fiftytwo pieces. In bacon mess, the number of prime mess pieces should be marked on the head. No

Beef is uniformly cut into eight-pound pieces, and cured, in all particulars, precisely as pork, except a larger proportion of saltpetre is used packing. Beef is almost entirely packed in tierces. For export, tierces only should be used.

"A tierce of prime India beef should contain and weighed, so that the requisite number of pieces forty-two pieces, eight pounds each, and weight shall weigh exactly the number of pounds for the 'not less than 236 pounds nett. It should be made barrel or tierce. It is then put up in the proper ' from well fed bullocks, and contain 32 pieces of package, and neely saited while packing, and loins, flanks, rumps, plates, buttocks, and baskets; full to the hundred pounds. The last layer is buttocks, two shells of rumps, two pieces cut close

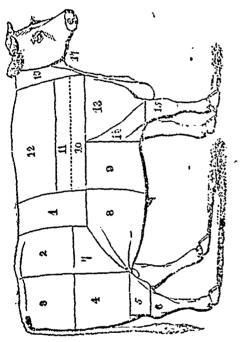
at each end. The package is then filled with pieces of eight pounds, and weigh not less than

304 pounds nett. It should be made from prime fat cows or heifers, 28 pieces of prime, from loins and chines, with one rib in each, flanks, rumps, plates, briskets, and buttocks, with ten coarse pieces, consisting of two neck pieces, not the scrag, two thighs or bultock bones, with some meat to them, two shells of rumps, two or even four chines, not cut too close to the neck, and two shoulder pieces with part of blade bone in them. well salted and capped with St. Ubes or other The tierces, whether for beef or pork, Joarse salt. just be made of well seasoned oak, with eight boo den, and three iron hoops on each end.

" No pains to be spared in preparing and put-Eng up, as the neat and tasty appearance of the ackages will insure a more ready sale than if put tp in a slovenly manner."

It may be useful to see the mode of cutting up. he carcass of an ox in London. The provisions xported from that metropolis rule the trade in he West India Islands, and in other distant laces abroad. It is very proper, therefore, that merican packers should understand the English Lethods.

The annexed cut will show the London mode:

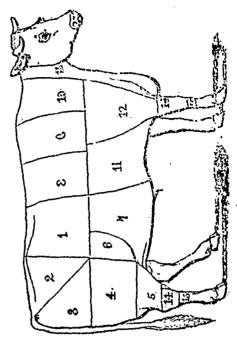


Wind-quarter-1, loin; 2, rump; 3, itch or Edze-bone; 4, buttock; 5, hock; 6, thick flank: 7, thin flank, 8, fore-rib.

Fore-quarter-9, middle-rib; 10, chuck-rib; 11, brisket; 12, leg of mutton piece; 13, clod and sticking and neck · 14, shin; 15, leg.

" The relative value of these different cuts of an ox may be stated at their current value, viz: when the rumps, loins and fore-ribs of a fine ox fetch 8d. a pound, the thick flank, buttock and middlerib will fetch 6d ; the itch or adze-bone, thin-flank, chuck-rib, brickat, and leg of mutton piece, 5d.; the clod and sticking, and neck, 3d.; and the legs and shins 2d. a pound. Such is the difference in value of the different cuts of an ox in the meat | selves solely to the Produce Commission Business,

we shall also give a figure of an ox cut in the Edinburgh method, as in figure 2, and the great difference between both methods may Le see n as a glance. Fig. 2.



Hind-quarter-1, surloin, or back-eye; 2, hockbone; 3, buttock; and 4, large round-rump; 5, small-round; 6, hough; 7, thick-flank; 8, thinflank ; 9, nine-holes.

Fore-quarter-10, large runner; 11, small runner: 12, square-rib, or fore-sye; 13, brisket; 14, shoulder-lyer; 15, nap, or shin; 16, neck; 17, sticking-piece.

" It is therefore obvious that of the two methods. of cutting up beef, London affords much more of the more valuable pieces out of the same carcass: and of course more money would thereby be realized from it.

" It is well to observe that the greatest atten-,. tion should be paid to making the brine or pickla whether for beef or pork. Pure water should be used in its manufacture; for the sediment from that which is impure, will settle down upon the meat, and give it a bad colour and a slimy feel. Where river or rain water is used, (and soft water should always be preferred,) it would be excceding desirable to filter it throub sand, or at least to stain it. A great deal of beef and pork is utterly unfit for exportation by the use of unfiltered water in making the brine.

"In packing provisions, the tierces, barrels, &c., should be made with great care and neatness. Clean, handsome ash staves are preferred,. and of such other hard, close-grained wood as will not stain the meat. Tierces should have four iron hoops, or three-one at each bilge and one at each chime ; barrels with an iron hoop at each chime. The fuller hooped the barrel or tierce is. the better." .•

We beg you to understand that we confine ourmarkets in London. As an object of comparison, I standing between the seller and purchaser, and

never buying or selling on our own account. is, therefore, for the interest of all parties to have our consigners send us the best articles-those which the consumer and the shipper and and the foreign merchant can confidently rely on. It is market by those of a high character-the more especially when our country has the means of furnishing those which cannot be surpassed by any in the world.

of produce to us, and be assured of a ready cale at the top of the market, as it will not pass through whe hands of brokers, but reciieve the personal atiention of some one of our firm. Returns will be made according to the instruction of consignors.

There is another branch of business which falls within our province, and to which we cannot too confidently call the attention of our country merchunts, as our facilities are peculiarly adapted to its prosecution. We refer to the buying of merchandize in this city for the country merchant. It frequently happens that merchants wish to replenish their stocks without the expense of a journey to Now York, especially if their stocks run low in mid-winter and mid-summer. By sending such orders to us, they will be filled on as favourable terms as if the merchant himself were on the spot, as the extent of our commission purchasers will make it the interest of the dry good, grocery, hardware, and crockery ware merchants and druggists to fill our orders on the best terms. The proceeds of produce shipped to our address can be applied to the purchase of goods as above, if the consignors wish it. This branch of our business cannot fail of being convenient to the country merchant; and we respectfully arge him to make one trial of it, to see the advantages we offer him. Any goods which we may thus purchase may be relied on for their quality, styles, and adaptation to the wants of the country for which they may be ordored.

Your obedient servants,

HITCHCOCK, LIVINGSTON & Co. No. 78. Cortlandt-street. -N. Y. Far. and Mec.

[FOR THE CELTIVATOR.] CURING OF HAMS AND BACON.

I have often been surprised that the practice of curing hams and bacon by steeping them in brine, should be so prevalent as it is. Many farmers seem to think it is the simplest and most effectual manner of preserving them; but the put at the bottom. But in every case it must be system of dry-salting is equally advantageous on this ground,-besides that it preserves to the rind part. At the expiration of another formight meat a very superior flavour and appearance. In most of the directions for curing hams and although generally I think it is more predent bacon in this way which I bave seen, there is particularly if the pigs have been large-to allow

It scrubbing insisted upon, that perhaps after all there is not so much room to be surprised at so many farmers adhering to the pork barrel. Howover this labour is perfectly unneccessasy; and I time that the poorer provisions were driven out of have found from experience that the following method is quite sufficient to secure every purpose that can be required.

The pig having been slaughtered in a proper The country merchant can send any description manner—the carcases is next day separated up the middle of the back bone, into two equal halves. Then cut the hams from the sides by the second joint of the back bone, which will appear on dividing the cureass—and dress them by paring a little off the flank and shinny part, so as to shape them with a half round point, clearing off any top fat that muy appear. Next proceed to cut off the sharp edge along the back bone, with a knife and mallet and slice off the first rib next the shoulder-where will be found a bloody vein which ought to be drawn out-or otherwise that part will be very apt to spoil. The corners of the sides where the huns have been cut off should be squared. This being done, give the hams and fletches, as the sides are called, a slight pounding of salt, and let them remain until the next day, when a considerable quantity of blood will have drained off, and they will be in a much better state for curing. In order to effect this, it is only necessary to lay them in a trough or on an inclined board, first sprinkling some common brown sugar on the thickcet parts of them ; next comes a sprinkling of about half an ounce of finely powdered saltpetre on each ham; and it is well to give the flitches a little also, and over all place a good covering of salt—there is no necessity for " rubbing it in," the effect of the salt will be sufficiently apparent in due time, without any mechanical action of that kind. And now covered with a course cloth, both hams and flitches are to remain undisturbed for the space of two weeks ; they are then to have their covering of salt alone renewed, and their position is to be reversed,that is to say, those hams and fletches which have been laying at the bottom are to be placed at the top, and those which were at the top are to be observed that they are to rest upon the skin or they will be in a fit state to hing up, or smoke . such a labour of turning, and rubbing, and them remain in solt for six weekz-only taking

care to give them an additional turning. They must now be hung up in some place where they will dry-a moderately warm kitchen will answer well. When the warm weather approaches in spring, an insect will make its appearance upon them, and would soon perforate them in all directons if allowed to remain exposed. They must, therefore, be packed away for summer use in boxes or casks, and covered with onts-some people use ashes I observe-but I have found nothing answer so well as a covering half an inch thick or so of lime, which has been kept dry, but exposed to the atmosphere for a few weeks or months. It must be kept in mind that the trough in which the meat is salted should be so contrived that the brine which is formed will all drain away. -I would strongly recommend the use of the strar, for in the first place it assists very materially in preserving the meat ; and secondly it corrects the extreme pungency which is often occasioned by the too free use of salt. It has also a good effect on bacon; and I have no doubt that molasses might be used with advantage in the pickling of pork. Some people may prefer pickled pork from the barrel to bacon; but no one I think can feel to acknowledge that hams cured in the way just described, are infinitely superior in flayour to those soaked in a brine barrel. And I have never known a ham or flitch treated in the manner 1 have described, fail of being cured.

London, C W. Nov. 18th 1844. W. E.

TO COLOR SCARLET.

Bouillon, or Coloring Bath.—For every pound of cloth or wool, take 14 drachms of cream of tartar, (put into a coavenient quantity of water.) When the bath is boiling and the tartar all dissolved, add 14 drachms of solution of tin (*Tin Mordant*, which see below.) and let the whele boil together during a few minutes. Now introduce the cloth, and boil it for two hours? then take it out and let it drain and cool.

Rongie or Finishing Due.—(Three modes of preparing this are given, either of which may be selected.) For every pound of woollen stuff take drachms of cream of tartar. When it begins boil, add 1 ounce of cochineal reduced to a fine powder, stir the mixture well with a rod of willow or any white wood, and let it boil for a five minutes. Then pour in by successive portions. I oz. of solution tin (*Tin Mordant.*) stirring recannoally with the rod. Lardy, dye as quickly as possible. The color will be a beautiful scarlet.

N-cond Scarlet process.—The Bouillon or coloring bath, the same as above given, and always estimated for one pound of staff.

Rougie or Finishing Dye.—Take 1 ounce of chochineal in fine powder, and two ounces of Tin Movdant without tartar.

Third Scarlet process.—The Bouillon being as above. 'Rougie.—For a pound of woollon stuff—take two drachms of cream of tartar, one ounce of cochineal, one ounce of selution of tin. and two ounces of sea salt, dye as in process first. The salt, it is said, helps the dye to penetrate into the cloth.

Tin Mordant for dying Scarlet.—Pour into a glass globe, with a long neck, 3 parts of nitrie acid at 30 deg. and one part of muriatic acid at 17 deg.; shake the globe gently, avoiding the corrosive vapors, and put a loose stopper inte its mouth. Throw into this nitro-muriatic acid onc-eighth of its weight of pure tin, in small bits at a time. When the solution is complete and settled, decant it into bottles and close them with ground stoppers. It should be dilluted only when about to be used. When the tin compound is prepared as above directed, it may be depended upon. The following is often used by dyers, but is an inferior article.

Mix one pound of nitric acid with one pound of water, and dissolve in it an ounce and a half of sal ammoniac. Stir it well, and add, by very slow degrees, 2 ounces of tin turned into thin ribbands upon the lathe.—Ure's Dict. on Arts.

Good Butter .- The great point in making good butter, and that which will keep, is the freeing it from all buttermilk : and if everything else is well done, if this point is overlooked, good butter is impossible for any length of time. The mixture of milk in any degree with the butter is sure to produce frowsmess or an unpleasant taste to the butter; and the entire freedom from this constitutes the grand secret of making good butter. There are many who think washing butter with water incompatible with retaining the rich flavour. but if the water is cold and pure it is scarcely possible unything could be washed away, the buttermilk which destroys the flavour of all butter excepted Besides, the best butter in the world, and that which in all markets commands the best price. viz.. Dutch butter, is invariably made in this way ; and where the example has been followed by others, it was rarely failed of success. If any, however, doubt the propriety of washing butter. they may use any method they choose, provided the milk is separated perfectly. Perfectly free from the substance that causes it to assume the putrid frowsy taste of bad butter, it may be kept with almost as much case as tallow; solidity in packing, clean, sweet versels, and a low temperature, will ensure its keeping for any reasonable time. Let no one expect good butter, however. so long as the course impure salt is used: or a particle of the buttermilk is allowed to remain: in it .-. . Ag.

Buckwheat Cakeo-Are less tough and not as liable to sour, when mixed with sall-riving instead of hep yeast.-Am. Ag.

ADVICE

I again take up my pen in continuation of the matters on which I last talked to you. I wish to give you a few notions on the education, I think most necessary for young ladies,-the effect it should have on the character, or rather the character it should form. If I were to ask you, who of your acquaintances are well educated, you would perhaps specify some whom you consider to be perfectly so. You will say such a one is pleasant and graceful in her manners, sings, plays, and dances in the most approved and newest style, -speaks French, draws, paints, and needle-works to perfection, tells of Botany, Chemistry and Philosophy,-knows all the new fashions, beaux, and talks to them without the least bashfulness, or blushing. No doubt many of those accomplishments are pleasant and agreeable; and you will perhaps think me disposed to find fault when I tell you a woman may be possessed of them, and even more than you mention, and still, in my opinion, be entirely deficient in true and correct education.

If you enquire in what good education does. consist? I answer, that it is not that course of study alone, that enables a woman to count up her accomplishments, and display them on every possible occasion; but it is that training which improves the heart as well as the mind and manners ; in a word, that tends to perfection of character, moral, physical, and intellectual. An education that does less than this, is not correct education : it is oftener mis-education. Of what avail are all heart that should be the seat of all the noble afthe accomplishments of earth; if our sex do not with them also possess those gentle and affection- who urge upon their daughters the necessity of ate dispositions, that so much promote the happ'- | practicing on the Piano for hours every day, ness of those with whom they are connected. you think it affords much pleasure to a husband course of deceit and insincerity-but I digress. that his wife can at times, send forth notes of witching melody, while at others, when no stranger is near to listen, she can address him in the that they should attend to it, is agreed by most rerough tones of anger and contempt ! No. her heating persons. It is the part that relates to music will never give happiness to his heart, it household concerns. I expect you guessed I was will never cause it to vibrate with pleasure or ten- coming there soon. Now for those of you who derness-he listens not to the song of the charmer, intend never to be married, it does not make so charm she never so wisely. Better had it been much difference; but for all who have the least for her to tune her heart to the soft notes of con- fidea of being mistresses of families, it is most im- ; stant affection, than for her voice to be skilled in portant you should early learn every thing you the magic notes of song-sweet though they may be

Then it is one of the most important parts of education that woman learn to govern her temper, to subdue every incorrect feeling and habit, and thus accomplish her heart, at the same time, she is improving the mind; and let me say in passing, that by cherishing amiable dispositions the countenance is also greatly beautified, and the voice A soft low voice, coming from a made better. heart full of kindness, is a lovely thing in woman. Let me say to you, that if you have no rule over your spirit, if you cannot school it to bear patiently the ills of life, you are indeed uneducated, even . though you may have passed through the whole circle of science. Cleopatra the ill-fated Queen of Egypt, early applied herself to the acquisition | 1 consider such women totally uneducated; and of knowledge, she spoke nine or ten different lan- | to those who are so unfortunate as to choose them

TO FARMERS' DAUGHTERS. | guages, and possessed every accomplishment in perfection; still she was far from being educated -she could not control her furious and headstrong passions-she could no more rule her spirit, than she could still the ocean's wild flood. Are you not acquainted with some whom you consider ed. ucated, who are too useless to attend to the every day duties of life, even if by so doing, they could relieve the cares of a sick or weary mother ; you know some, who hate to go about and do good, who take no pleasure in helping a sick neighbour. or in alleviating the sorrows of the afflicted. Ifa woman's heart prompt her not to do all in her power to soothe the sufferings of her fellow-crea. tures, the first part of her character is uneducated -the affections are untrained, uneducated. True education, then, according to my notion, is that training which teaches us to do our duty in life It teaches to be meek, humble, and useful-never puffs up its possessor with pride, vanity or haughtiness; but enables us to act with ability and prudence in every situation ; or, in other words, leads to the formation of pure and good characters

> Before I go farther I would say, I do not wish you to think I am opposed to any of the innocent accomplishments of the day. On the contrary, I consider them calculated to refine and improve the mind. My only objection is, that they receive more attention than matters of greater importance. In many cases, in our part of the country, the fingers receive more training than the heart-the fections of humanity. I can point out mothers Do while by their example they encourage them in a

There is a part of the education of girls, I think much neglected, although absolutely necessary: coming there soon. Now for those of you who will wish to practice in after life. You know, in music, without a great deal of practice, you cannot execute with skill and judgment-there will be many false notes, jars and discords. It is just so in the every day music of life; if you do not practice these by times, you will be apt to play out of time, there will be but little melody in your chords, and you will have discords that will last through the whole piece. I know girls who They are as perfectly ignoought not to marry. rant of domestic affairs as children. Some declare they would not know how to bake corn bread ; biscuit are entirely above their ken. Some of these girls go to school, study many books, are fond of costly clothing and all fashionable doings; but as to any thing useful, it is out of the question

28

es partners through life, they are a trouble and a —but I will not say any thing hard about the girls; they would do right if their parents would teach them.

I always advise my acquaintance never to marry girls who boast they cannot do this, or they cannot do that. It so clearly manifests a want of good sense and good education, that there is iittle prospect of future usefulness.

³ There is an old bachelor away off down east, talking in the Boston *Culticator* about these matters. He advertises for a wife, and describes the requisite qualifications; and, although they are in poetical form, I will give you the old gentleman's cogitations. After other things he says:

 I'd have—let me see—no I'd not have a beauty, For beautiful women are apt to be vain:

Yet, with a small share, I'd think it a duty To take her, be thankful, and never complain.

Her form must be good—no art to constrain it, And rather above than below middle size;

▲ something—it puzzles my brain to explain it— Like eloquent language must flow from her eyes.

She must be well bred, or 1 could not respect her; Good natured and modest, but not very coy; Her mind well informed—'tis the purified nectar That sweetens the cup of hymeneal joy.

Her home she must love, and domestic employment,

Have practical knowledge of household affairs, And make it a part of her highest enjoyment

To soften my troubles and lighten my cares.

No fortune I ask: for I've no predilection For glitter and show, or the pomp of high life;

I wish to be bound in the cords of affection-And now I have drawn you a sketch of a wife.

If any possess the above requisitions,

And wish to be bound with the conjugal band, They will please to step forward, (they know the

conditions.) Eagure of the printer—I'm always at hand."

This bachelor, you see, accords with me in my motions of education. He wants a hely possessed of some practical goodness and knowledge; he wishes an assistant in the school of life.

In the same paper, there is another bachelor speaking of the same subject. He says :

"I want to know the inward state

And temper of her mind,

If she will pout, or rage, or fret-Be gentle, or unkind ;

If her discourse is calm and staid,

And judgment rule her life-

Nonsense may charm us in a maid,

But never in a *wife*." From the old bachelors beginning to speak out

so plainly, there must be a scarcity of properly educated ladies. I hope, if you have not formerly thought of these matters, you will turn your attention to them and strive to train yourselves by acquiring useful knowledge, and by putting it in practice. so that you may be well educated, or what is the same thing, useful and practical women -Tennessee Ag. Your friend. LUCY.

Saltpetre on Seeds and Plaster on Flowers.—Hart Mussy, Esq. of this village. took a small portion of the corn with which he planted a field, and soaked it in a solution of salts of nitre, commonly called saltpetre, and planted five rows with the seed thus prepared. Now for the result: The five rows planted with corn prepared with saltpetre, yielded more than twenty-five rows planted with-The five rows were out any preparation. untouched by the worms, while the remainder of the field suffered severely by their depredations. We should judge that not one grain saturated with saltpeire was touched, while almost every hill in the adjoining row suffered severely. No one who will examine the field can doubt the efficacy of the preparation. He will be astonished at the striking difference between the five rows and the remainder of

Mr. M. also stated the 1 sult of ancther experiment. He has a fine, thrifty, healthy apple tree, about twenty-five or thirty years old; but it has never, in any one year, produced over about two bushcls of apples. While in blossom last spring, he ascended the tree and sprinkled plaster freely on the blossoms, and the result is that it will this year yield twenty bushels of apples.—*Concordia Intelligencer*.

For three years we have published from time to time experiments and statements showing the value of the saltpetre soak for corn and other seeds, and yet probably not one-tenth of our readers use this or any other seak. For several years we have soaked all our corn with the most gratifying results. None of it has ever been touched by the grub, against which we, therefore, regard the saltpetre as a perfect protection, and it grows with a rapidity that shames the sluggishness of grass and weeds. We planted some corn this year, on the 6th of May, soaked as usual, and in just twenty-eight days it stood twenty-two inches high-ground rich but not manused this year. A pound of saltpetre in enough water to cover a bushel of corn is Your friend. LUCY. about the proportion .- Louisville Jour.

THE AMERICAN FARMER.

A homely Ballad borrowed and ultered from the "Old English Farmer"

- Here's a health to the farmer who tilleth the land,
- Made the best and the wisest on earth, by his hand,
- -You may roam the wide world, but there's nought to be seen
- That can rival the American farmer I ween, Derry down, down, Down derry, down.

What life is so sweet? he's up with the sun, He hears the day's music so sweetly begun By robin and swallow and lark and cucleoo, And soes the green lawn besprinkled with dew.

Derrry down, &c.

While sluggards in cities, 'mid tumult and strife, Lose all the best part of this quick fading life, He breathes the free air at morning's first ray, And lives twice as long as they do, each day. Derry down, &c.

He rules every station from castle to cot, By the high and the lowly he's never forgot, The poor and the rich man together agree That without him their lives most wretched

would be.

Derry down, &c.

Look around you-what treasures his riches unfold,

His granaries filled with those sheaves of bright gold,

His pens and his pasture all breathing with life, And his home far away from all passion and strife.

Derry down, &c.

Then a health to the farmer who lives on the land,

hand,

You may roam the wide world, but there's nought to be seen

That can rival the American farmer I ween. Derry down, down. Down derry, down.

Disease in the Stomach of Caitle .- Mr. J. DE-VEREUX, of Raleigh, North Carolina, wishes some mowing soythes and axes and hoes, and information in regard to a disease by which he lately lost a valuable Devon bull, Apost mortem examination showed the third stomach or manifolds, " crowded with food until it was as hard as a pressed cotton-bale." In relation to diseases of this organ, Mr. Youatt says-" It will always be preper to bleed, in order to diminish any existing fever, or to prevent the occurrence of that which plough, when he wants it, is at neighbourcontinued disease of this important stomach would be likely to produce. To this should follow a dose of physic, in order to ovacuate the intestines be- Scratchall's—his wagon not yet returned yourd the place of obstruction, and by its action on form neighbour Longkeep's—often he

them, possibly to recall this viscus also to the discharge of its healthy function. The Epsom salts, with half the usual quantity of ginger, will form the best purgative; and it should be administered either by means of a small horn, or the pipe of the stomach-pump introduced half way down the gullet, and the liquid very slowly pumped in. By this cautious method of proceeding, the pillars on the æsophagean canal will probably not be forced open, and the liquid will flow on through the passage still partially open at the bottom of the many. plus, and thence into the abomasum."-Alb. Cult.

BORROWING.

"The borrower is a servant to the lender."____ Pnov. 22. 7.

Whilst every man who borrow's much. feels the truth of this adage, how many still persist in the practice of borrowing. Why, I know several farmers who are doing business on a right large scale, who borrow the plough which breaks their fallow-the harrow which levels it-the bag which conveys their seed wheat to the field—the cradle which cuts the crop -the waggon which hauls it to the barn -the wheat-fan which cleans it, and then again the wagon which takes it to market. While the borrower is therefore, in some sense, servant to the lender, Solomon might have added that he is a most " unprofitable servant." For whilst he lays himself under daily and heavy obligations to the lender, which may well be likened to a state of bondage, he distresses, incommodes and injures the lender to such a degree that it is sometimes Made the best and the wisest on earth, by his hard to tell which will come to poverty soonest. A good farmer will not only provide himself with all the necessary implements of his business, but will try to keep them at all times in good order and in their proper places. You will see his ploughs and harrows and wagons and carts and cradles and all the rest snugly housed and sheltered whenever not in actual use, so that whenever the time comes for using them, there they are, easy to find and in good condition. If he is a free lender, and is annoyed with borrowing neighbours, his. Dolittle's-his harrow at neighbour.

forgets who has borrowed them, and when he finds them, they are broken, Boston Cultivator speaks in high terms of abused and out of order : such is the fate a seedling grape, purchased of G. B. of the lender. The borrower is no bet- Emerson, Esq. of Boston. The size of ter off, for if he has so little pride as to be the berry is said to be about that of an ble to bear the mortification of his con-ant dependence upon others, he is still grape. The flavour is rich, much more the loser in the end, for in running about so than the Isabella. It has no pulp or to borrow and to return the articles (if he foxy taste. It is not likely to be injured takes the trouble) time is lost-precious by frost, as it puts out about ten days the sons are often lost, his crops are put later than the Isabella, and ripens a late, and every thing works badly. I month earlier. It was in eating the latnever knew a man who borrowed much ter part of August. The vine is perfectly who did not break .- Valley Farmer.

Cranberrice .- Cultivated cranberries were exhibited by S. Bates, Billingham, Norfolk Co., Mass., grown on his own land. He states that "low meadow land is best for them, prepared in the first instance in the same manner as for grain. The wild cranberry is transplanted into this in rows20 inches apart. At first they require a slight boeing, afterwards they spread and cover the field, producing crops annually thereafter without further culture. In this condition they produce much larger and finer fruit than in their wild state, the yield being from 200 to 300 bushels per a half-bred American Mare, owned by John acre, worth on an average in the Boston market at M Donald, Esq. of Gart. Cornwall, Canada West. least one dollar perbushel. A damp soil, or when Rose and Maggy are sired by Rosecestalles, ont vet predominated, has generally been considered of Marcs at the West and North Rivers, near necessary, but Mr. Bates thiaks this not - ssential to their successful cultivation; any soil unless

To Kill Lice on Cattle .- Mr. Star, of New Jersey, informs us that scattering backwheat floar plentifully over lousy animals, is an effectual cure for them. We presame other kinds of flour would do just as well. One of the best things we ever tried, was rubbing our stock well with raneid lurd, or whale, or tanner's oil The Boston Culticator recommends washing to animal a few times with a decoction of red-coda

To make Ants Disappear .- A small quantity of green soge, placed in the closet, will cause red ants to disappear.-Am. Ag.

Many choese their friends for the sake of their purses, rather than their full hearts. They for- BOOK AND JOB PRINTER, get that a full purse may soon be exhausted by frequent demands upon it, while the more a full totat gives away its traisures, the climer it is Adjoining Mr. Brewer's Book Store, leading to replenished. We shall find the strings of the heart and strings of the passe both tightened in 15° Every description of Plain and Ornamented Litter around liself.

Native Grape .- A correspondent of the hardy .- Alb. Cult.

····· IF We would recommend our readers immediately upon receipt of their paper to stitch it ;--they can then cut open the leaves, and it will be much more conveniently read, and it does not in any way injure it for binding. -----

III Subscriber offers for sale, TWO COLTS (male and female) by Knickerbocker, out of Rose and Maggy. Knickerbocker is sired by Knickerbucker, a thorough-bred powerful Racer from Long Island (got by an English full-blooded Horse and Dam imported at New York.) out of Charlotte Town, Prince Edward Island.

EDWARD STEWART. New Branswick, Aug. 30, 1844.

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use throughout the Province.

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the Past Office.

the hour of adversity; the firmer around us-the Printing usatly executed at exceedingly for prizes. Toronto, October, 1844.

A LENDER.

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of Agricultural improvement in the Bri- effort shall be spared on the part of the confidence in renewing this annual well organised Agricultural Societies,-pledge to his numerous friends and sup-porters. He also trusts that those who go hand in hand in this great work. have been benefitted by his "ormer exer-tions in the cause of Agricultural im-provement, will exercise their influence that the Original Correspondence in its in their respective neighbourhoods for the purpose of extending the circulation ter as are the diversified branches of imof this Journal.

tor of THE BRITISH AMERICAN CULTIVA-TOB will be, to create a stimulus for im-provement amongst the productive class-Contributions from their pens. es, whereby the vast resources of British In conclusion, the Proprietors beg to America may be speedily developed, and assure those who may favour them with happy.

truly desirable that the time may short-loontinent of America.

The Proprietors of "THE BRITIEN AME-1 ly come when the majority of the people RICAN CULTIVATOR" have great pleasure of this country will so think, and act, in in being able to announce to the friends relation to this important subject. No tish North American Provinces, that their Conductor of the "Cultivator" to effect Magazine is now beyond a doubt estab-lished upon a sound basis, and that every the productive wealth, the comforts, the necessary exertion and care will be cni- conveniences, and the refinements of the ployed in its future management, to enti- country, will soon be quadrupled. Is the it to the respect and support of every there any one then, in this wide land, true friend of the productive interests.— The Editor of the Cu/tirator being prac-tically engaged in Agricultural pursuits, and having made himself acquainted with diffuse a spirit of improvement in the culthe best theories, as well as the various tivation of the soil among all classes of systems of Agriculture successfully prac- the rural population, is the employment ticed in Europe and America, feels much of the press, and the establishment of

this Journal. proved Agriculture practiced in the coun-The grand aim and object of the Edi-try; and to supply this desideratum, the

her inhabitants made prosperous and their support, that no effort shall be left unemployed on their part, in the future As Agriculture must over be consid-ered as among the *First of Sciences*, to it one of the most practical and useful which many others are hand-maids, it is Agricultural Magazines published on the